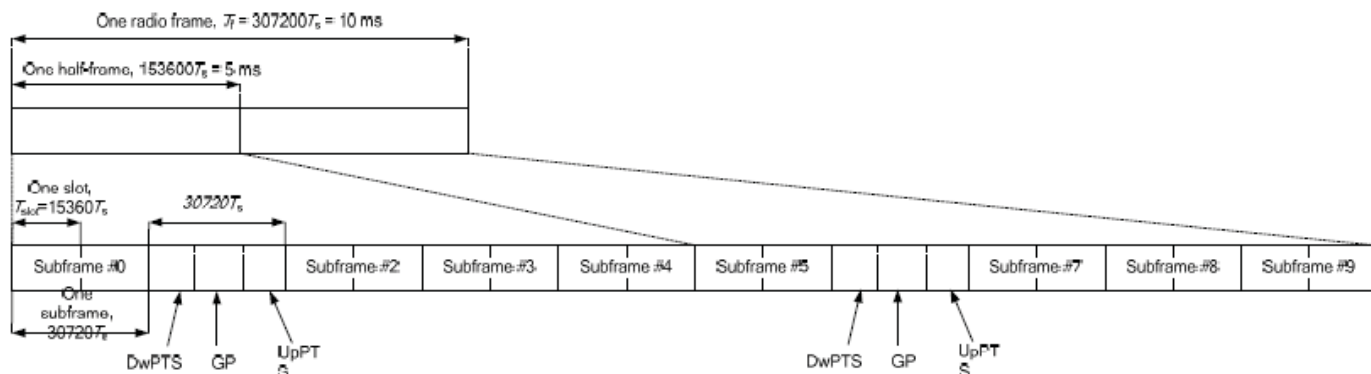


### <TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.



**Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).**

**Table 4.2-2: Uplink-downlink configurations.**

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).**

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  | -                              | -                                |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  |                                |                                  |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  |                                |                                  |

| Special subframe (30720·T <sub>s</sub> ): Normal cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                    | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                         | 0~4                            | 7.13%                          | 8.33%                            |
|                                                                                    | 5~9                            | 14.3%                          | 16.7%                            |

| Special subframe(30720·T <sub>s</sub> ): Extended cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                     | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                          | 0~3                            | 7.13%                          | 8.33%                            |
|                                                                                     | 4~7                            | 14.3%                          | 16.7%                            |

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  
 $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  
 $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.



## UAT Full Power Mode

## &lt;LTE Band 38&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.19                 | 21.12                    | 21.09                  | 21.8                | 0        |
| 20              | QPSK       | 1       | 49        | 21.32                 | 21.26                    | 21.23                  |                     |          |
| 20              | QPSK       | 1       | 99        | 21.28                 | 21.20                    | 21.21                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.30                 | 20.28                    | 20.16                  | 20.8                | 1        |
| 20              | QPSK       | 50      | 24        | 20.38                 | 20.35                    | 20.25                  |                     |          |
| 20              | QPSK       | 50      | 50        | 20.33                 | 20.23                    | 20.17                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.26                 | 20.25                    | 20.16                  | 20.8                | 1        |
| 20              | 16QAM      | 1       | 0         | 20.77                 | 20.77                    | 20.78                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 20.70                 | 20.79                    | 20.68                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 20.73                 | 20.62                    | 20.73                  | 19.8                | 2        |
| 20              | 16QAM      | 50      | 0         | 19.21                 | 19.36                    | 19.26                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 19.44                 | 19.45                    | 19.39                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.39                 | 19.28                    | 19.19                  | 19.8                | 2        |
| 20              | 16QAM      | 100     | 0         | 19.22                 | 19.30                    | 19.21                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 19.06                 | 18.98                    | 19.08                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 19.15                 | 19.00                    | 18.99                  | 19.8                | 2        |
| 20              | 64QAM      | 1       | 99        | 19.29                 | 19.02                    | 18.95                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 17.91                 | 17.93                    | 17.85                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 18.10                 | 17.97                    | 17.93                  | 18.8                | 3        |
| 20              | 64QAM      | 50      | 50        | 18.05                 | 17.81                    | 17.77                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.02                 | 17.91                    | 17.88                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.19                 | 16.12                    | 16.09                  | 16.8                | 2        |
| 20              | 256QAM     | 1       | 49        | 16.32                 | 16.26                    | 16.23                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 16.28                 | 16.20                    | 16.21                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.30                 | 16.28                    | 16.16                  | 16.8                | 3        |
| 20              | 256QAM     | 50      | 24        | 16.33                 | 16.31                    | 16.25                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 16.33                 | 16.23                    | 16.17                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 16.26                 | 16.25                    | 16.16                  | Channel             | MPR (dB) |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 21.19                 | 21.31                    | 21.26                  | 21.8                | 0        |
| 15              | QPSK       | 1       | 37        | 21.31                 | 21.32                    | 21.26                  |                     |          |
| 15              | QPSK       | 1       | 74        | 21.15                 | 21.21                    | 21.23                  |                     |          |
| 15              | QPSK       | 36      | 0         | 20.23                 | 20.30                    | 20.21                  | 20.8                | 1        |
| 15              | QPSK       | 36      | 20        | 20.44                 | 20.39                    | 20.22                  |                     |          |
| 15              | QPSK       | 36      | 39        | 20.28                 | 20.27                    | 20.25                  |                     |          |
| 15              | QPSK       | 75      | 0         | 20.25                 | 20.33                    | 20.16                  | 20.8                | 1        |
| 15              | 16QAM      | 1       | 0         | 20.77                 | 20.72                    | 20.63                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 20.66                 | 20.61                    | 20.72                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 20.76                 | 20.69                    | 20.78                  | 19.8                | 2        |
| 15              | 16QAM      | 36      | 0         | 19.29                 | 19.35                    | 19.26                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 19.40                 | 19.48                    | 19.37                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 19.39                 | 19.34                    | 19.24                  | 19.8                | 2        |
| 15              | 16QAM      | 75      | 0         | 19.34                 | 19.30                    | 19.18                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 19.08                 | 18.99                    | 18.97                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 19.17                 | 19.09                    | 19.10                  | 19.8                | 2        |
| 15              | 64QAM      | 1       | 74        | 19.18                 | 19.03                    | 18.92                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 17.98                 | 17.90                    | 17.97                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 18.18                 | 18.00                    | 17.95                  | 18.8                | 3        |
| 15              | 64QAM      | 36      | 39        | 18.17                 | 17.89                    | 17.90                  |                     |          |



# FCC SAR TEST REPORT

Report No. : FA9N2025-02

|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 18.04  | 17.95 | 17.88  |                        |             |
| 15              | 256QAM | 1  | 0  | 16.14  | 16.07 | 16.06  | 16.8                   | 2           |
| 15              | 256QAM | 1  | 37 | 16.32  | 16.24 | 16.17  |                        |             |
| 15              | 256QAM | 1  | 74 | 16.26  | 16.11 | 16.20  |                        |             |
| 15              | 256QAM | 36 | 0  | 16.22  | 16.28 | 16.16  | 16.8                   | 3           |
| 15              | 256QAM | 36 | 20 | 16.30  | 16.27 | 16.17  |                        |             |
| 15              | 256QAM | 36 | 39 | 16.24  | 16.17 | 16.07  |                        |             |
| 15              | 256QAM | 75 | 0  | 16.23  | 16.22 | 16.09  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 20.58  | 20.98 | 20.98  | 21.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.94  | 20.97 | 20.87  |                        |             |
| 10              | QPSK   | 1  | 49 | 20.76  | 20.96 | 20.87  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.89  | 20.00 | 19.92  | 20.8                   | 1           |
| 10              | QPSK   | 25 | 12 | 20.13  | 20.10 | 20.00  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.12  | 20.08 | 19.98  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.01  | 20.08 | 19.98  |                        |             |
| 10              | 16QAM  | 1  | 0  | 20.29  | 20.65 | 20.51  | 20.8                   | 1           |
| 10              | 16QAM  | 1  | 25 | 20.62  | 20.66 | 20.60  |                        |             |
| 10              | 16QAM  | 1  | 49 | 20.37  | 20.67 | 20.55  |                        |             |
| 10              | 16QAM  | 25 | 0  | 18.97  | 19.12 | 18.98  | 19.8                   | 2           |
| 10              | 16QAM  | 25 | 12 | 19.14  | 19.20 | 19.15  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.03  | 19.08 | 19.00  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.13  | 19.07 | 18.99  |                        |             |
| 10              | 64QAM  | 1  | 0  | 18.51  | 19.00 | 18.95  | 19.8                   | 2           |
| 10              | 64QAM  | 1  | 25 | 18.88  | 18.69 | 18.72  |                        |             |
| 10              | 64QAM  | 1  | 49 | 18.76  | 18.92 | 18.71  |                        |             |
| 10              | 64QAM  | 25 | 0  | 17.72  | 17.76 | 17.73  | 18.8                   | 3           |
| 10              | 64QAM  | 25 | 12 | 17.99  | 17.83 | 17.86  |                        |             |
| 10              | 64QAM  | 25 | 25 | 18.00  | 17.80 | 17.81  |                        |             |
| 10              | 64QAM  | 50 | 0  | 17.84  | 17.70 | 17.70  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.11  | 16.02 | 16.03  | 16.8                   | 2           |
| 10              | 256QAM | 1  | 25 | 16.28  | 16.23 | 16.16  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.18  | 16.10 | 16.10  |                        |             |
| 10              | 256QAM | 25 | 0  | 16.19  | 16.20 | 16.10  | 16.8                   | 3           |
| 10              | 256QAM | 25 | 12 | 16.22  | 16.21 | 16.08  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.24  | 16.15 | 16.07  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.22  | 16.17 | 16.05  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.84  | 20.93 | 20.78  | 21.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 21.01  | 21.07 | 20.94  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.95  | 21.00 | 20.92  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.02  | 20.07 | 20.03  | 20.8                   | 1           |
| 5               | QPSK   | 12 | 7  | 20.13  | 20.12 | 19.98  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.05  | 20.10 | 20.03  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.02  | 20.15 | 20.00  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.49  | 20.65 | 20.49  | 20.8                   | 1           |
| 5               | 16QAM  | 1  | 12 | 20.55  | 20.67 | 20.53  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.59  | 20.68 | 20.51  |                        |             |
| 5               | 16QAM  | 12 | 0  | 18.96  | 19.16 | 18.97  | 19.8                   | 2           |
| 5               | 16QAM  | 12 | 7  | 19.08  | 19.19 | 19.03  |                        |             |
| 5               | 16QAM  | 12 | 13 | 19.05  | 19.08 | 18.98  |                        |             |
| 5               | 16QAM  | 25 | 0  | 19.17  | 19.20 | 19.03  |                        |             |
| 5               | 64QAM  | 1  | 0  | 18.81  | 18.72 | 18.62  | 19.8                   | 2           |
| 5               | 64QAM  | 1  | 12 | 18.94  | 18.73 | 18.72  |                        |             |



|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 1  | 24 | 18.92 | 18.83 | 18.72 |      |   |
| 5 | 64QAM  | 12 | 0  | 17.81 | 17.78 | 17.70 | 18.8 | 3 |
| 5 | 64QAM  | 12 | 7  | 17.96 | 17.81 | 17.77 |      |   |
| 5 | 64QAM  | 12 | 13 | 17.93 | 17.79 | 17.73 |      |   |
| 5 | 64QAM  | 25 | 0  | 17.95 | 17.77 | 17.74 |      |   |
| 5 | 256QAM | 1  | 0  | 16.08 | 16.00 | 16.01 | 16.8 | 2 |
| 5 | 256QAM | 1  | 12 | 16.27 | 16.15 | 16.14 |      |   |
| 5 | 256QAM | 1  | 24 | 16.11 | 16.01 | 16.08 |      |   |
| 5 | 256QAM | 12 | 0  | 16.18 | 16.20 | 16.09 | 16.8 | 3 |
| 5 | 256QAM | 12 | 7  | 16.19 | 16.12 | 16.05 |      |   |
| 5 | 256QAM | 12 | 13 | 16.15 | 16.08 | 16.01 |      |   |
| 5 | 256QAM | 25 | 0  | 16.15 | 16.08 | 15.98 |      |   |



## &lt;LTE Band 41 PC3&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.34                 | 21.27                        | 21.35                    | 21.25                         | 21.08                  |                     |          |
| 20              | QPSK       | 1       | 49        | 21.43                 | 21.35                        | 21.47                    | 21.27                         | 21.15                  | 21.8                | 0        |
| 20              | QPSK       | 1       | 99        | 21.26                 | 21.24                        | 21.27                    | 21.17                         | 21.12                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.04                 | 20.02                        | 20.11                    | 20.00                         | 19.85                  |                     |          |
| 20              | QPSK       | 50      | 24        | 20.13                 | 20.12                        | 20.29                    | 20.10                         | 20.05                  | 20.8                | 1        |
| 20              | QPSK       | 50      | 50        | 20.19                 | 20.17                        | 20.24                    | 20.15                         | 20.05                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.15                 | 20.09                        | 20.16                    | 20.01                         | 19.90                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 20.15                 | 20.11                        | 19.88                    | 19.93                         | 19.63                  | 20.8                | 1        |
| 20              | 16QAM      | 1       | 49        | 20.03                 | 20.12                        | 20.30                    | 20.24                         | 20.06                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 20.02                 | 20.15                        | 20.02                    | 19.77                         | 19.93                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 19.05                 | 19.02                        | 19.14                    | 19.07                         | 18.89                  | 19.8                | 2        |
| 20              | 16QAM      | 50      | 24        | 19.05                 | 19.12                        | 19.25                    | 19.15                         | 19.11                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.02                 | 19.13                        | 19.27                    | 19.07                         | 19.09                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 18.98                 | 19.03                        | 19.13                    | 19.10                         | 18.99                  | 19.8                | 2        |
| 20              | 64QAM      | 1       | 0         | 18.60                 | 18.72                        | 18.30                    | 18.41                         | 18.23                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 18.53                 | 18.78                        | 18.69                    | 18.73                         | 18.64                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 18.50                 | 18.75                        | 18.41                    | 18.22                         | 18.54                  | 18.8                | 3        |
| 20              | 64QAM      | 50      | 0         | 17.91                 | 17.98                        | 17.76                    | 17.82                         | 17.80                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 17.83                 | 18.07                        | 17.89                    | 17.86                         | 18.03                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 17.72                 | 18.02                        | 17.97                    | 17.76                         | 17.95                  | 18.8                | 3        |
| 20              | 64QAM      | 100     | 0         | 17.72                 | 17.89                        | 17.84                    | 17.87                         | 17.84                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.34                 | 16.27                        | 16.35                    | 16.25                         | 16.08                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 16.42                 | 16.35                        | 16.43                    | 16.27                         | 16.15                  | 16.8                | 2        |
| 20              | 256QAM     | 1       | 99        | 16.26                 | 16.24                        | 16.27                    | 16.17                         | 16.12                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.04                 | 16.02                        | 16.11                    | 16.00                         | 15.85                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 16.13                 | 16.12                        | 16.29                    | 16.10                         | 16.05                  | 16.8                | 3        |
| 20              | 256QAM     | 50      | 50        | 16.19                 | 16.17                        | 16.24                    | 16.15                         | 16.05                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 16.15                 | 16.09                        | 16.16                    | 16.01                         | 15.90                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 20.88                 | 20.63                        | 20.86                    | 20.78                         | 20.58                  |                     |          |
| 15              | QPSK       | 1       | 37        | 20.90                 | 20.84                        | 21.10                    | 20.94                         | 20.84                  | 21.8                | 0        |
| 15              | QPSK       | 1       | 74        | 20.81                 | 20.73                        | 20.99                    | 20.70                         | 20.84                  |                     |          |
| 15              | QPSK       | 36      | 0         | 19.96                 | 19.84                        | 20.03                    | 19.96                         | 19.78                  |                     |          |
| 15              | QPSK       | 36      | 20        | 19.95                 | 20.03                        | 20.15                    | 20.06                         | 19.99                  | 20.8                | 1        |
| 15              | QPSK       | 36      | 39        | 19.93                 | 19.95                        | 20.18                    | 19.98                         | 19.97                  |                     |          |
| 15              | QPSK       | 75      | 0         | 19.90                 | 19.92                        | 20.08                    | 20.01                         | 19.86                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 20.04                 | 19.87                        | 19.94                    | 19.97                         | 19.67                  | 20.8                | 1        |
| 15              | 16QAM      | 1       | 37        | 19.97                 | 19.96                        | 20.17                    | 20.12                         | 19.91                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 19.95                 | 19.85                        | 20.06                    | 19.90                         | 19.96                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 18.93                 | 18.83                        | 18.98                    | 18.92                         | 18.75                  | 19.8                | 2        |
| 15              | 16QAM      | 36      | 20        | 18.93                 | 18.97                        | 19.07                    | 19.05                         | 18.94                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 18.91                 | 18.92                        | 19.16                    | 18.96                         | 18.92                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 18.96                 | 18.98                        | 19.07                    | 19.06                         | 18.86                  | 19.8                | 2        |
| 15              | 64QAM      | 1       | 0         | 18.59                 | 18.56                        | 18.24                    | 18.46                         | 18.21                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.39                 | 18.71                        | 18.51                    | 18.55                         | 18.60                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 18.29                 | 18.57                        | 18.46                    | 18.25                         | 18.54                  | 18.8                | 3        |
| 15              | 64QAM      | 36      | 0         | 17.69                 | 17.76                        | 17.66                    | 17.70                         | 17.70                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 17.68                 | 17.89                        | 17.81                    | 17.78                         | 17.84                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 17.69                 | 17.81                        | 17.87                    | 17.70                         | 17.83                  | 18.8                | 3        |
| 15              | 64QAM      | 75      | 0         | 17.67                 | 17.84                        | 17.82                    | 17.79                         | 17.77                  |                     |          |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 16.26  | 16.23  | 16.26 | 16.18   | 16.05  | 16.8                | 2        |
| 15              | 256QAM | 1  | 37 | 16.40  | 16.28  | 16.39 | 16.17   | 16.10  |                     |          |
| 15              | 256QAM | 1  | 74 | 16.17  | 16.14  | 16.25 | 16.07   | 16.02  |                     |          |
| 15              | 256QAM | 36 | 0  | 16.04  | 15.97  | 16.05 | 15.94   | 15.81  | 16.8                | 3        |
| 15              | 256QAM | 36 | 20 | 16.04  | 16.09  | 16.26 | 16.05   | 15.98  |                     |          |
| 15              | 256QAM | 36 | 39 | 16.16  | 16.11  | 16.23 | 16.06   | 16.03  |                     |          |
| 15              | 256QAM | 75 | 0  | 16.05  | 16.04  | 16.15 | 15.91   | 15.80  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                     |          |
| 10              | QPSK   | 1  | 0  | 20.70  | 20.45  | 20.70 | 20.54   | 20.64  | 21.8                | 0        |
| 10              | QPSK   | 1  | 25 | 20.72  | 20.76  | 21.00 | 20.83   | 20.75  |                     |          |
| 10              | QPSK   | 1  | 49 | 20.72  | 20.51  | 20.72 | 20.55   | 20.62  |                     |          |
| 10              | QPSK   | 25 | 0  | 19.88  | 19.78  | 19.99 | 19.85   | 19.76  | 20.8                | 1        |
| 10              | QPSK   | 25 | 12 | 19.93  | 19.91  | 20.05 | 19.89   | 19.83  |                     |          |
| 10              | QPSK   | 25 | 25 | 19.96  | 19.86  | 20.07 | 19.84   | 19.81  |                     |          |
| 10              | QPSK   | 50 | 0  | 19.97  | 19.86  | 19.96 | 19.79   | 19.73  | 20.8                | 1        |
| 10              | 16QAM  | 1  | 0  | 19.96  | 19.69  | 19.87 | 19.79   | 19.66  |                     |          |
| 10              | 16QAM  | 1  | 25 | 19.89  | 19.93  | 20.08 | 20.00   | 19.90  |                     |          |
| 10              | 16QAM  | 1  | 49 | 19.87  | 19.71  | 19.86 | 19.74   | 19.61  | 19.8                | 2        |
| 10              | 16QAM  | 25 | 0  | 18.94  | 18.79  | 18.99 | 18.84   | 18.75  |                     |          |
| 10              | 16QAM  | 25 | 12 | 19.03  | 18.99  | 19.03 | 18.92   | 18.85  |                     |          |
| 10              | 16QAM  | 25 | 25 | 19.06  | 18.90  | 19.07 | 18.89   | 18.83  | 19.8                | 2        |
| 10              | 16QAM  | 50 | 0  | 19.02  | 18.88  | 18.97 | 18.86   | 18.81  |                     |          |
| 10              | 64QAM  | 1  | 0  | 18.51  | 18.54  | 18.21 | 18.30   | 18.32  |                     |          |
| 10              | 64QAM  | 1  | 25 | 18.21  | 18.60  | 18.34 | 18.44   | 18.44  | 19.8                | 2        |
| 10              | 64QAM  | 1  | 49 | 18.80  | 18.31  | 18.45 | 18.26   | 18.25  |                     |          |
| 10              | 64QAM  | 25 | 0  | 17.64  | 17.82  | 17.67 | 17.61   | 17.58  |                     |          |
| 10              | 64QAM  | 25 | 12 | 17.70  | 17.91  | 17.72 | 17.66   | 17.55  | 18.8                | 3        |
| 10              | 64QAM  | 25 | 25 | 17.59  | 17.82  | 17.70 | 17.66   | 17.54  |                     |          |
| 10              | 64QAM  | 50 | 0  | 17.50  | 17.77  | 17.63 | 17.55   | 17.42  |                     |          |
| 10              | 256QAM | 1  | 0  | 16.17  | 16.19  | 16.22 | 16.14   | 15.96  | 16.8                | 2        |
| 10              | 256QAM | 1  | 25 | 16.32  | 16.24  | 16.37 | 16.13   | 16.01  |                     |          |
| 10              | 256QAM | 1  | 49 | 16.15  | 16.13  | 16.22 | 16.02   | 15.92  |                     |          |
| 10              | 256QAM | 25 | 0  | 16.01  | 15.96  | 15.99 | 15.93   | 15.79  | 16.8                | 3        |
| 10              | 256QAM | 25 | 12 | 16.01  | 16.05  | 16.21 | 15.98   | 15.98  |                     |          |
| 10              | 256QAM | 25 | 25 | 16.09  | 16.04  | 16.13 | 16.03   | 15.99  |                     |          |
| 10              | 256QAM | 50 | 0  | 15.99  | 15.99  | 16.10 | 15.84   | 15.78  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 20.90  | 20.80  | 20.91 | 20.82   | 20.74  | 21.8                | 0        |
| 5               | QPSK   | 1  | 12 | 20.79  | 20.84  | 20.97 | 20.90   | 20.79  |                     |          |
| 5               | QPSK   | 1  | 24 | 20.79  | 20.82  | 20.92 | 20.83   | 20.76  |                     |          |
| 5               | QPSK   | 12 | 0  | 19.91  | 19.90  | 20.05 | 19.91   | 19.88  | 20.8                | 1        |
| 5               | QPSK   | 12 | 7  | 19.94  | 19.98  | 20.06 | 19.98   | 19.93  |                     |          |
| 5               | QPSK   | 12 | 13 | 19.90  | 19.92  | 20.09 | 19.99   | 19.88  |                     |          |
| 5               | QPSK   | 25 | 0  | 19.87  | 19.91  | 20.03 | 19.96   | 19.88  | 20.8                | 1        |
| 5               | 16QAM  | 1  | 0  | 19.94  | 19.87  | 20.11 | 19.94   | 19.91  |                     |          |
| 5               | 16QAM  | 1  | 12 | 19.99  | 20.11  | 20.23 | 20.12   | 19.96  |                     |          |
| 5               | 16QAM  | 1  | 24 | 19.96  | 19.95  | 20.14 | 20.00   | 19.91  | 19.8                | 2        |
| 5               | 16QAM  | 12 | 0  | 18.89  | 18.92  | 19.03 | 18.89   | 18.87  |                     |          |
| 5               | 16QAM  | 12 | 7  | 18.93  | 18.93  | 19.07 | 19.00   | 18.90  |                     |          |
| 5               | 16QAM  | 12 | 13 | 18.88  | 18.89  | 19.09 | 18.92   | 18.86  | 19.8                | 2        |
| 5               | 16QAM  | 25 | 0  | 18.93  | 18.96  | 19.04 | 18.96   | 18.92  |                     |          |
| 5               | 64QAM  | 1  | 0  | 18.47  | 18.52  | 18.36 | 18.42   | 18.41  |                     |          |
| 5               | 64QAM  | 1  | 12 | 18.27  | 18.63  | 18.41 | 18.49   | 18.41  | 19.8                | 2        |
| 5               | 64QAM  | 1  | 24 | 18.35  | 18.67  | 18.42 | 18.52   | 18.40  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 17.61 | 17.87 | 17.72 | 17.66 | 17.68 | 18.8 | 3 |
| 5 | 64QAM  | 12 | 7  | 17.57 | 17.89 | 17.81 | 17.77 | 17.70 |      |   |
| 5 | 64QAM  | 12 | 13 | 17.56 | 17.88 | 17.79 | 17.71 | 17.73 |      |   |
| 5 | 64QAM  | 25 | 0  | 17.59 | 17.86 | 17.79 | 17.75 | 17.75 |      |   |
| 5 | 256QAM | 1  | 0  | 16.11 | 16.09 | 16.19 | 16.13 | 15.88 | 16.8 | 2 |
| 5 | 256QAM | 1  | 12 | 16.30 | 16.20 | 16.31 | 16.13 | 15.99 |      |   |
| 5 | 256QAM | 1  | 24 | 16.12 | 16.03 | 16.20 | 15.95 | 15.90 |      |   |
| 5 | 256QAM | 12 | 0  | 15.96 | 15.91 | 15.91 | 15.87 | 15.69 | 16.8 | 3 |
| 5 | 256QAM | 12 | 7  | 16.00 | 16.04 | 16.17 | 15.92 | 15.91 |      |   |
| 5 | 256QAM | 12 | 13 | 16.05 | 16.00 | 16.05 | 16.02 | 15.98 |      |   |
| 5 | 256QAM | 25 | 0  | 15.99 | 15.96 | 16.10 | 15.84 | 15.70 |      |   |



## &lt;LTE Band 41 PC2&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 23.64                 | 23.71                        | 23.76                    | 23.57                         | 23.53                  | 24.3                | 0        |
| 20              | QPSK       | 1       | 49        | 23.73                 | 23.77                        | 23.84                    | 23.65                         | 23.64                  |                     |          |
| 20              | QPSK       | 1       | 99        | 23.66                 | 23.74                        | 23.77                    | 23.61                         | 23.55                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.65                 | 22.73                        | 22.80                    | 22.53                         | 22.49                  | 23.3                | 1        |
| 20              | QPSK       | 50      | 24        | 22.74                 | 22.84                        | 22.93                    | 22.57                         | 22.54                  |                     |          |
| 20              | QPSK       | 50      | 50        | 22.79                 | 22.88                        | 22.92                    | 22.72                         | 22.63                  |                     |          |
| 20              | QPSK       | 100     | 0         | 22.68                 | 22.75                        | 22.85                    | 22.57                         | 22.56                  | 23.3                | 1        |
| 20              | 16QAM      | 1       | 0         | 23.09                 | 23.20                        | 22.94                    | 23.01                         | 22.75                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 23.10                 | 23.22                        | 23.29                    | 23.23                         | 23.22                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 23.12                 | 23.24                        | 23.03                    | 22.81                         | 23.01                  | 22.3                | 2        |
| 20              | 16QAM      | 50      | 0         | 21.57                 | 21.78                        | 21.69                    | 21.63                         | 21.52                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 21.63                 | 21.86                        | 21.90                    | 21.79                         | 21.67                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 21.60                 | 21.86                        | 21.78                    | 21.63                         | 21.67                  | 22.3                | 2        |
| 20              | 16QAM      | 100     | 0         | 21.60                 | 21.79                        | 21.75                    | 21.64                         | 21.54                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 21.12                 | 21.21                        | 20.94                    | 21.08                         | 20.89                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 21.30                 | 21.24                        | 21.41                    | 21.46                         | 21.38                  | 22.3                | 2        |
| 20              | 64QAM      | 1       | 99        | 21.36                 | 21.43                        | 21.17                    | 21.00                         | 21.31                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 20.41                 | 20.37                        | 20.39                    | 20.39                         | 20.16                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 20.37                 | 20.50                        | 20.40                    | 20.19                         | 20.48                  | 21.3                | 3        |
| 20              | 64QAM      | 50      | 50        | 20.31                 | 20.57                        | 20.39                    | 20.22                         | 20.45                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 20.20                 | 20.26                        | 20.40                    | 20.15                         | 20.34                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 18.64                 | 18.71                        | 18.76                    | 18.57                         | 18.53                  | 19.3                | 2        |
| 20              | 256QAM     | 1       | 49        | 18.73                 | 18.77                        | 18.84                    | 18.65                         | 18.64                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 18.66                 | 18.74                        | 18.77                    | 18.61                         | 18.55                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 18.65                 | 18.73                        | 18.77                    | 18.53                         | 18.49                  | 19.3                | 3        |
| 20              | 256QAM     | 50      | 24        | 18.74                 | 18.84                        | 18.81                    | 18.57                         | 18.54                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 18.75                 | 18.78                        | 18.80                    | 18.62                         | 18.63                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 18.68                 | 18.75                        | 18.85                    | 18.57                         | 18.56                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 23.57                 | 23.47                        | 23.51                    | 23.45                         | 23.19                  | 24.3                | 0        |
| 15              | QPSK       | 1       | 37        | 23.57                 | 23.72                        | 23.72                    | 23.61                         | 23.58                  |                     |          |
| 15              | QPSK       | 1       | 74        | 23.43                 | 23.47                        | 23.66                    | 23.33                         | 23.56                  |                     |          |
| 15              | QPSK       | 36      | 0         | 22.56                 | 22.66                        | 22.70                    | 22.67                         | 22.41                  | 23.3                | 1        |
| 15              | QPSK       | 36      | 20        | 22.60                 | 22.84                        | 22.82                    | 22.79                         | 22.61                  |                     |          |
| 15              | QPSK       | 36      | 39        | 22.63                 | 22.80                        | 22.88                    | 22.70                         | 22.61                  |                     |          |
| 15              | QPSK       | 75      | 0         | 22.60                 | 22.75                        | 22.65                    | 22.66                         | 22.56                  | 23.3                | 1        |
| 15              | 16QAM      | 1       | 0         | 23.11                 | 23.09                        | 23.11                    | 23.10                         | 22.94                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 23.14                 | 23.22                        | 23.26                    | 23.26                         | 23.12                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 23.17                 | 23.07                        | 23.19                    | 23.05                         | 23.04                  | 22.3                | 2        |
| 15              | 16QAM      | 36      | 0         | 21.63                 | 21.71                        | 21.73                    | 21.66                         | 21.61                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 21.68                 | 21.88                        | 21.90                    | 21.81                         | 21.70                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.72                 | 21.89                        | 21.86                    | 21.67                         | 21.75                  | 22.3                | 2        |
| 15              | 16QAM      | 75      | 0         | 21.66                 | 21.79                        | 21.81                    | 21.71                         | 21.53                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 21.02                 | 21.14                        | 21.19                    | 21.18                         | 21.06                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 21.29                 | 21.29                        | 21.53                    | 21.03                         | 21.44                  | 22.3                | 2        |
| 15              | 64QAM      | 1       | 74        | 21.19                 | 21.32                        | 21.44                    | 21.03                         | 21.37                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 20.16                 | 20.19                        | 20.31                    | 20.24                         | 20.29                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 20.27                 | 20.22                        | 20.41                    | 20.30                         | 20.43                  | 21.3                | 3        |
| 15              | 64QAM      | 36      | 39        | 20.28                 | 20.48                        | 20.48                    | 20.28                         | 20.41                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 20.23                 | 20.34                        | 20.45                    | 20.15                         | 20.34                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 18.54  | 18.66  | 18.76 | 18.50   | 18.43  | 19.3                | 2        |
| 15              | 256QAM | 1  | 37 | 18.72  | 18.73  | 18.84 | 18.62   | 18.55  |                     |          |
| 15              | 256QAM | 1  | 74 | 18.58  | 18.71  | 18.72 | 18.57   | 18.48  |                     |          |
| 15              | 256QAM | 36 | 0  | 18.62  | 18.63  | 18.68 | 18.46   | 18.43  | 19.3                | 3        |
| 15              | 256QAM | 36 | 20 | 18.66  | 18.81  | 18.75 | 18.54   | 18.51  |                     |          |
| 15              | 256QAM | 36 | 39 | 18.73  | 18.76  | 18.77 | 18.52   | 18.62  |                     |          |
| 15              | 256QAM | 75 | 0  | 18.67  | 18.72  | 18.85 | 18.53   | 18.49  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 24.3                | 0        |
| 10              | QPSK   | 1  | 0  | 23.31  | 23.15  | 23.25 | 23.15   | 23.07  |                     |          |
| 10              | QPSK   | 1  | 25 | 23.3   | 23.47  | 23.5  | 23.33   | 23.3   |                     |          |
| 10              | QPSK   | 1  | 49 | 23.31  | 23.29  | 23.27 | 23.17   | 23.01  | 23.3                | 1        |
| 10              | QPSK   | 25 | 0  | 22.38  | 22.48  | 22.51 | 22.44   | 22.38  |                     |          |
| 10              | QPSK   | 25 | 12 | 22.49  | 22.64  | 22.63 | 22.52   | 22.43  |                     |          |
| 10              | QPSK   | 25 | 25 | 22.38  | 22.57  | 22.57 | 22.43   | 22.35  | 23.3                | 1        |
| 10              | QPSK   | 50 | 0  | 22.36  | 22.59  | 22.57 | 22.44   | 22.31  |                     |          |
| 10              | 16QAM  | 1  | 0  | 22.92  | 22.83  | 22.81 | 22.72   | 22.7   |                     |          |
| 10              | 16QAM  | 1  | 25 | 22.96  | 23.11  | 23.18 | 23.01   | 22.95  | 22.3                | 2        |
| 10              | 16QAM  | 1  | 49 | 22.94  | 22.94  | 22.85 | 22.77   | 22.66  |                     |          |
| 10              | 16QAM  | 25 | 0  | 21.51  | 21.63  | 21.55 | 21.56   | 21.39  |                     |          |
| 10              | 16QAM  | 25 | 12 | 21.49  | 21.75  | 21.68 | 21.53   | 21.39  | 22.3                | 2        |
| 10              | 16QAM  | 25 | 25 | 21.47  | 21.71  | 21.61 | 21.58   | 21.41  |                     |          |
| 10              | 16QAM  | 50 | 0  | 21.47  | 21.64  | 21.59 | 21.5    | 21.41  |                     |          |
| 10              | 64QAM  | 1  | 0  | 20.86  | 21.07  | 21.02 | 20.87   | 20.90  | 22.3                | 2        |
| 10              | 64QAM  | 1  | 25 | 21.20  | 21.45  | 21.53 | 21.07   | 21.24  |                     |          |
| 10              | 64QAM  | 1  | 49 | 21.17  | 21.17  | 21.11 | 20.95   | 20.97  |                     |          |
| 10              | 64QAM  | 25 | 0  | 19.96  | 20.30  | 20.14 | 20.11   | 20.14  | 21.3                | 3        |
| 10              | 64QAM  | 25 | 12 | 20.21  | 20.46  | 20.31 | 20.20   | 20.20  |                     |          |
| 10              | 64QAM  | 25 | 25 | 20.07  | 20.28  | 20.39 | 20.09   | 20.11  |                     |          |
| 10              | 64QAM  | 50 | 0  | 19.98  | 20.29  | 20.20 | 19.98   | 20.09  | 19.3                | 2        |
| 10              | 256QAM | 1  | 0  | 18.48  | 18.61  | 18.70 | 18.39   | 18.44  |                     |          |
| 10              | 256QAM | 1  | 25 | 18.69  | 18.62  | 18.75 | 18.49   | 18.58  |                     |          |
| 10              | 256QAM | 1  | 49 | 18.56  | 18.63  | 18.64 | 18.53   | 18.44  | 19.3                | 3        |
| 10              | 256QAM | 25 | 0  | 18.51  | 18.70  | 18.74 | 18.41   | 18.43  |                     |          |
| 10              | 256QAM | 25 | 12 | 18.61  | 18.78  | 18.71 | 18.54   | 18.48  |                     |          |
| 10              | 256QAM | 25 | 25 | 18.67  | 18.74  | 18.60 | 18.49   | 18.45  | Tune-up limit (dBm) | MPR (dB) |
| 10              | 256QAM | 50 | 0  | 18.56  | 18.64  | 18.75 | 18.41   | 18.49  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 23.20  | 23.32  | 23.45 | 23.27   | 23.29  | 24.3                | 0        |
| 5               | QPSK   | 1  | 12 | 23.32  | 23.48  | 23.59 | 23.47   | 23.42  |                     |          |
| 5               | QPSK   | 1  | 24 | 23.33  | 23.47  | 23.54 | 23.38   | 23.27  |                     |          |
| 5               | QPSK   | 12 | 0  | 22.43  | 22.64  | 22.62 | 22.46   | 22.44  | 23.3                | 1        |
| 5               | QPSK   | 12 | 7  | 22.47  | 22.67  | 22.56 | 22.59   | 22.46  |                     |          |
| 5               | QPSK   | 12 | 13 | 22.42  | 22.66  | 22.62 | 22.48   | 22.50  |                     |          |
| 5               | QPSK   | 25 | 0  | 22.40  | 22.60  | 22.54 | 22.57   | 22.44  | 23.3                | 1        |
| 5               | 16QAM  | 1  | 0  | 22.94  | 23.03  | 23.12 | 22.99   | 23.01  |                     |          |
| 5               | 16QAM  | 1  | 12 | 22.99  | 23.17  | 23.11 | 23.00   | 23.02  |                     |          |
| 5               | 16QAM  | 1  | 24 | 23.01  | 23.14  | 23.11 | 23.05   | 22.98  | 22.3                | 2        |
| 5               | 16QAM  | 12 | 0  | 21.39  | 21.63  | 21.59 | 21.46   | 21.41  |                     |          |
| 5               | 16QAM  | 12 | 7  | 21.46  | 21.66  | 21.64 | 21.59   | 21.45  |                     |          |
| 5               | 16QAM  | 12 | 13 | 21.42  | 21.63  | 21.60 | 21.53   | 21.47  | 22.3                | 2        |
| 5               | 16QAM  | 25 | 0  | 21.46  | 21.66  | 21.69 | 21.58   | 21.54  |                     |          |
| 5               | 64QAM  | 1  | 0  | 20.59  | 21.18  | 21.27 | 20.84   | 21.18  |                     |          |
| 5               | 64QAM  | 1  | 12 | 20.74  | 21.03  | 21.20 | 21.14   | 21.23  | 22.3                | 2        |
| 5               | 64QAM  | 1  | 24 | 21.00  | 21.15  | 21.31 | 20.68   | 21.22  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 19.77 | 20.36 | 20.32 | 20.14 | 20.23 | 21.3 | 3 |
| 5 | 64QAM  | 12 | 7  | 19.84 | 20.43 | 20.26 | 19.97 | 20.27 |      |   |
| 5 | 64QAM  | 12 | 13 | 19.69 | 20.28 | 20.30 | 20.09 | 20.20 |      |   |
| 5 | 64QAM  | 25 | 0  | 19.83 | 20.33 | 20.32 | 20.11 | 20.21 |      |   |
| 5 | 256QAM | 1  | 0  | 18.38 | 18.55 | 18.63 | 18.36 | 18.37 | 19.3 | 2 |
| 5 | 256QAM | 1  | 12 | 18.63 | 18.55 | 18.67 | 18.39 | 18.57 |      |   |
| 5 | 256QAM | 1  | 24 | 18.49 | 18.54 | 18.62 | 18.46 | 18.38 |      |   |
| 5 | 256QAM | 12 | 0  | 18.50 | 18.63 | 18.66 | 18.34 | 18.34 | 19.3 | 3 |
| 5 | 256QAM | 12 | 7  | 18.55 | 18.75 | 18.63 | 18.53 | 18.40 |      |   |
| 5 | 256QAM | 12 | 13 | 18.62 | 18.70 | 18.50 | 18.44 | 18.38 |      |   |
| 5 | 256QAM | 25 | 0  | 18.55 | 18.55 | 18.69 | 18.34 | 18.49 |      |   |



**<LTE Band 48>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | 23.8                | 0        |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.66                 | 22.71                        | 22.25                         | 22.22                  | 23.8                | 0        |
| 20              | QPSK       | 1       | 49        | 22.90                 | 22.93                        | 22.68                         | 22.46                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.75                 | 22.59                        | 22.57                         | 22.30                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.89                 | 21.92                        | 21.69                         | 21.51                  | 22.8                | 1        |
| 20              | QPSK       | 50      | 24        | 22.02                 | 22.04                        | 21.81                         | 21.59                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.87                 | 21.75                        | 21.72                         | 21.44                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.89                 | 21.92                        | 21.77                         | 21.52                  | 22.8                | 1        |
| 20              | 16QAM      | 1       | 0         | 21.81                 | 21.65                        | 21.49                         | 21.32                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 22.04                 | 21.74                        | 21.74                         | 21.59                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 21.96                 | 21.73                        | 21.67                         | 21.35                  | 21.8                | 2        |
| 20              | 16QAM      | 50      | 0         | 21.04                 | 20.88                        | 20.72                         | 20.52                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 21.14                 | 20.98                        | 20.84                         | 20.62                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 21.00                 | 20.75                        | 20.74                         | 20.45                  | 21.8                | 2        |
| 20              | 16QAM      | 100     | 0         | 21.07                 | 20.81                        | 20.79                         | 20.52                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 20.22                 | 20.66                        | 20.27                         | 20.25                  | 21.8                | 2        |
| 20              | 64QAM      | 1       | 49        | 20.40                 | 20.87                        | 20.72                         | 20.00                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 20.42                 | 20.50                        | 20.54                         | 20.05                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 19.54                 | 19.36                        | 19.34                         | 19.23                  | 20.8                | 3        |
| 20              | 64QAM      | 50      | 24        | 19.68                 | 19.44                        | 19.49                         | 19.30                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 19.63                 | 19.36                        | 19.42                         | 19.36                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 19.55                 | 19.30                        | 19.36                         | 19.17                  | 18.8                | 2        |
| 20              | 256QAM     | 1       | 0         | 17.66                 | 17.71                        | 17.25                         | 17.29                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 17.90                 | 17.93                        | 17.67                         | 17.46                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 17.75                 | 17.59                        | 17.57                         | 17.30                  | 18.8                | 3        |
| 20              | 256QAM     | 50      | 0         | 17.89                 | 17.92                        | 17.69                         | 17.51                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 18.00                 | 17.96                        | 17.81                         | 17.59                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 17.87                 | 17.75                        | 17.72                         | 17.44                  | 18.8                | 3        |
| 20              | 256QAM     | 100     | 0         | 17.89                 | 17.92                        | 17.76                         | 17.52                  |                     |          |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | 23.8                | 0        |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 22.55                 | 22.80                        | 22.45                         | 22.22                  | 23.8                | 0        |
| 15              | QPSK       | 1       | 37        | 22.74                 | 22.87                        | 22.73                         | 22.42                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.88                 | 22.67                        | 22.70                         | 22.34                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.86                 | 21.96                        | 21.75                         | 21.46                  | 22.8                | 1        |
| 15              | QPSK       | 36      | 20        | 21.90                 | 21.89                        | 21.87                         | 21.53                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.93                 | 21.81                        | 21.69                         | 21.40                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.86                 | 21.86                        | 21.77                         | 21.43                  | 22.8                | 1        |
| 15              | 16QAM      | 1       | 0         | 22.02                 | 21.65                        | 21.57                         | 21.48                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 21.96                 | 21.71                        | 21.60                         | 21.56                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.19                 | 21.70                        | 21.79                         | 21.52                  | 21.8                | 2        |
| 15              | 16QAM      | 36      | 0         | 21.02                 | 20.90                        | 20.69                         | 20.49                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 21.06                 | 20.86                        | 20.76                         | 20.59                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.04                 | 20.76                        | 20.65                         | 20.46                  | 21.8                | 2        |
| 15              | 16QAM      | 75      | 0         | 21.10                 | 20.84                        | 20.78                         | 20.56                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 20.59                 | 20.42                        | 20.31                         | 20.35                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 20.51                 | 20.25                        | 20.20                         | 20.48                  | 21.8                | 2        |
| 15              | 64QAM      | 1       | 74        | 20.76                 | 20.43                        | 20.41                         | 20.34                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 19.74                 | 19.56                        | 19.37                         | 19.15                  | 20.8                | 3        |
| 15              | 64QAM      | 36      | 20        | 19.78                 | 19.46                        | 19.42                         | 19.18                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 19.85                 | 19.53                        | 19.39                         | 19.20                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 19.77                 | 19.47                        | 19.32                         | 19.16                  | 20.8                | 3        |



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|                 |        |    |    |        |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 0  | 17.57  | 17.63  | 17.18  | 17.28  | 18.8                   | 2           |
| 15              | 256QAM | 1  | 37 | 17.85  | 17.86  | 17.63  | 17.36  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.72  | 17.59  | 17.54  | 17.22  |                        |             |
| 15              | 256QAM | 36 | 0  | 17.86  | 17.83  | 17.59  | 17.45  | 18.8                   | 3           |
| 15              | 256QAM | 36 | 20 | 17.98  | 17.94  | 17.73  | 17.51  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.87  | 17.70  | 17.65  | 17.38  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.82  | 17.87  | 17.76  | 17.44  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |             |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   | 23.8                   | 0           |
| 10              | QPSK   | 1  | 0  | 22.60  | 22.41  | 22.24  | 22.02  |                        |             |
| 10              | QPSK   | 1  | 25 | 22.91  | 22.70  | 22.61  | 22.35  |                        |             |
| 10              | QPSK   | 1  | 49 | 22.77  | 22.59  | 22.48  | 22.25  | 22.8                   | 1           |
| 10              | QPSK   | 25 | 0  | 21.84  | 21.67  | 21.49  | 21.26  |                        |             |
| 10              | QPSK   | 25 | 12 | 22.03  | 21.71  | 21.63  | 21.44  |                        |             |
| 10              | QPSK   | 25 | 25 | 21.92  | 21.68  | 21.50  | 21.31  | 22.8                   | 1           |
| 10              | QPSK   | 50 | 0  | 21.90  | 21.64  | 21.57  | 21.34  |                        |             |
| 10              | 16QAM  | 1  | 0  | 21.73  | 21.61  | 21.37  | 21.10  |                        |             |
| 10              | 16QAM  | 1  | 25 | 22.08  | 21.86  | 21.69  | 21.49  | 21.8                   | 2           |
| 10              | 16QAM  | 1  | 49 | 21.95  | 21.72  | 21.57  | 21.39  |                        |             |
| 10              | 16QAM  | 25 | 0  | 20.84  | 20.64  | 20.49  | 20.22  |                        |             |
| 10              | 16QAM  | 25 | 12 | 21.02  | 20.70  | 20.63  | 20.43  | 21.8                   | 2           |
| 10              | 16QAM  | 25 | 25 | 20.88  | 20.65  | 20.49  | 20.32  |                        |             |
| 10              | 16QAM  | 50 | 0  | 20.96  | 20.66  | 20.57  | 20.37  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.59  | 20.32  | 20.20  | 19.98  | 21.8                   | 2           |
| 10              | 64QAM  | 1  | 25 | 20.88  | 20.66  | 20.34  | 20.31  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.72  | 20.39  | 20.38  | 20.06  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.63  | 19.47  | 19.26  | 19.21  | 20.8                   | 3           |
| 10              | 64QAM  | 25 | 12 | 19.73  | 19.41  | 19.40  | 19.19  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.68  | 19.34  | 19.41  | 19.23  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.62  | 19.48  | 19.40  | 19.18  | 18.8                   | 2           |
| 10              | 256QAM | 1  | 0  | 17.49  | 17.54  | 17.15  | 17.22  |                        |             |
| 10              | 256QAM | 1  | 25 | 17.78  | 17.85  | 17.62  | 17.31  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.72  | 17.50  | 17.44  | 17.14  | 18.8                   | 3           |
| 10              | 256QAM | 25 | 0  | 17.80  | 17.78  | 17.52  | 17.35  |                        |             |
| 10              | 256QAM | 25 | 12 | 17.90  | 17.90  | 17.71  | 17.45  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.80  | 17.63  | 17.56  | 17.33  | 18.8                   | 3           |
| 10              | 256QAM | 50 | 0  | 17.74  | 17.83  | 17.68  | 17.39  |                        |             |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 22.78  | 22.57  | 22.41  | 22.24  | 23.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 22.90  | 22.74  | 22.63  | 22.37  |                        |             |
| 5               | QPSK   | 1  | 24 | 22.89  | 22.66  | 22.51  | 22.36  |                        |             |
| 5               | QPSK   | 12 | 0  | 21.96  | 21.68  | 21.58  | 21.34  | 22.8                   | 1           |
| 5               | QPSK   | 12 | 7  | 21.95  | 21.72  | 21.65  | 21.45  |                        |             |
| 5               | QPSK   | 12 | 13 | 21.96  | 21.70  | 21.71  | 21.40  |                        |             |
| 5               | QPSK   | 25 | 0  | 21.90  | 21.72  | 21.60  | 21.39  | 22.8                   | 1           |
| 5               | 16QAM  | 1  | 0  | 21.87  | 21.65  | 21.53  | 21.29  |                        |             |
| 5               | 16QAM  | 1  | 12 | 21.93  | 21.72  | 21.61  | 21.37  |                        |             |
| 5               | 16QAM  | 1  | 24 | 21.90  | 21.71  | 21.55  | 21.40  | 21.8                   | 2           |
| 5               | 16QAM  | 12 | 0  | 20.89  | 20.63  | 20.51  | 20.23  |                        |             |
| 5               | 16QAM  | 12 | 7  | 20.88  | 20.77  | 20.58  | 20.37  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.95  | 20.68  | 20.55  | 20.33  | 21.8                   | 2           |
| 5               | 16QAM  | 25 | 0  | 20.98  | 20.83  | 20.64  | 20.46  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.42  | 20.47  | 20.38  | 20.16  |                        |             |
| 5               | 64QAM  | 1  | 12 | 20.47  | 20.49  | 20.45  | 20.21  | 21.8                   | 2           |
| 5               | 64QAM  | 1  | 24 | 20.49  | 20.54  | 20.45  | 20.28  |                        |             |



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|   |        |    |    |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 19.54 | 19.29 | 19.29 | 19.05 | 20.8 | 3 |
| 5 | 64QAM  | 12 | 7  | 19.59 | 19.39 | 19.42 | 19.11 |      |   |
| 5 | 64QAM  | 12 | 13 | 19.57 | 19.33 | 19.41 | 19.10 |      |   |
| 5 | 64QAM  | 25 | 0  | 19.58 | 19.42 | 19.46 | 19.24 |      |   |
| 5 | 256QAM | 1  | 0  | 17.44 | 17.44 | 17.06 | 17.17 | 18.8 | 2 |
| 5 | 256QAM | 1  | 12 | 17.73 | 17.79 | 17.57 | 17.25 |      |   |
| 5 | 256QAM | 1  | 24 | 17.68 | 17.50 | 17.44 | 17.13 |      |   |
| 5 | 256QAM | 12 | 0  | 17.77 | 17.69 | 17.49 | 17.27 | 18.8 | 3 |
| 5 | 256QAM | 12 | 7  | 17.84 | 17.81 | 17.69 | 17.42 |      |   |
| 5 | 256QAM | 12 | 13 | 17.79 | 17.60 | 17.53 | 17.23 |      |   |
| 5 | 256QAM | 25 | 0  | 17.65 | 17.79 | 17.66 | 17.35 |      |   |

**LAT Full Power Mode**
**<LTE Band 38>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |             |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |             |
| 20              | QPSK       | 1       | 0         | 23.37                    | 23.37                       | 23.32                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 49        | 23.43                    | 23.41                       | 23.36                     |                        |             |
| 20              | QPSK       | 1       | 99        | 23.46                    | 23.36                       | 23.32                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.35                    | 22.34                       | 22.38                     | 22.8                   | 1           |
| 20              | QPSK       | 50      | 24        | 22.57                    | 22.53                       | 22.48                     |                        |             |
| 20              | QPSK       | 50      | 50        | 22.49                    | 22.46                       | 22.41                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.47                    | 22.38                       | 22.39                     | 22.8                   | 1           |
| 20              | 16QAM      | 1       | 0         | 22.40                    | 22.51                       | 22.55                     |                        |             |
| 20              | 16QAM      | 1       | 49        | 22.55                    | 22.46                       | 22.36                     |                        |             |
| 20              | 16QAM      | 1       | 99        | 22.69                    | 22.55                       | 22.49                     | 21.8                   | 2           |
| 20              | 16QAM      | 50      | 0         | 21.33                    | 21.50                       | 21.30                     |                        |             |
| 20              | 16QAM      | 50      | 24        | 21.59                    | 21.61                       | 21.25                     |                        |             |
| 20              | 16QAM      | 50      | 50        | 21.51                    | 21.44                       | 21.32                     | 21.8                   | 2           |
| 20              | 16QAM      | 100     | 0         | 21.43                    | 21.42                       | 21.36                     |                        |             |
| 20              | 64QAM      | 1       | 0         | 21.11                    | 21.06                       | 21.08                     |                        |             |
| 20              | 64QAM      | 1       | 49        | 21.25                    | 21.11                       | 21.10                     | 20.8                   | 3           |
| 20              | 64QAM      | 1       | 99        | 21.41                    | 21.00                       | 20.98                     |                        |             |
| 20              | 64QAM      | 50      | 0         | 20.10                    | 19.99                       | 19.99                     |                        |             |
| 20              | 64QAM      | 50      | 24        | 20.22                    | 20.06                       | 20.06                     | 18.8                   | 2           |
| 20              | 64QAM      | 50      | 50        | 20.17                    | 20.05                       | 19.97                     |                        |             |
| 20              | 64QAM      | 100     | 0         | 20.20                    | 20.04                       | 20.01                     |                        |             |
| 20              | 256QAM     | 1       | 0         | 18.37                    | 18.39                       | 18.32                     | 18.8                   | 2           |
| 20              | 256QAM     | 1       | 49        | 18.43                    | 18.41                       | 18.36                     |                        |             |
| 20              | 256QAM     | 1       | 99        | 18.45                    | 18.36                       | 18.35                     |                        |             |
| 20              | 256QAM     | 50      | 0         | 18.35                    | 18.34                       | 18.38                     | 18.8                   | 3           |
| 20              | 256QAM     | 50      | 24        | 18.51                    | 18.49                       | 18.47                     |                        |             |
| 20              | 256QAM     | 50      | 50        | 18.49                    | 18.46                       | 18.41                     |                        |             |
| 20              | 256QAM     | 100     | 0         | 18.47                    | 18.40                       | 18.40                     |                        |             |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |             |
| 15              | QPSK       | 1       | 0         | 23.37                    | 23.38                       | 23.31                     | 23.8                   | 0           |
| 15              | QPSK       | 1       | 37        | 23.27                    | 23.45                       | 23.40                     |                        |             |
| 15              | QPSK       | 1       | 74        | 23.45                    | 23.40                       | 23.28                     |                        |             |
| 15              | QPSK       | 36      | 0         | 22.36                    | 22.48                       | 22.30                     | 22.8                   | 1           |
| 15              | QPSK       | 36      | 12        | 22.51                    | 22.51                       | 22.47                     |                        |             |
| 15              | QPSK       | 36      | 25        | 22.48                    | 22.49                       | 22.38                     |                        |             |
| 15              | QPSK       | 75      | 0         | 22.40                    | 22.49                       | 22.40                     | 22.8                   | 1           |
| 15              | 16QAM      | 1       | 0         | 22.49                    | 22.51                       | 22.60                     |                        |             |
| 15              | 16QAM      | 1       | 37        | 22.43                    | 22.42                       | 22.55                     |                        |             |
| 15              | 16QAM      | 1       | 74        | 22.64                    | 22.47                       | 22.43                     | 21.8                   | 2           |
| 15              | 16QAM      | 36      | 0         | 21.23                    | 21.43                       | 21.30                     |                        |             |
| 15              | 16QAM      | 36      | 20        | 21.50                    | 21.46                       | 21.40                     |                        |             |
| 15              | 16QAM      | 36      | 39        | 21.42                    | 21.42                       | 21.29                     | 21.8                   | 2           |
| 15              | 16QAM      | 75      | 0         | 21.47                    | 21.46                       | 21.33                     |                        |             |
| 15              | 64QAM      | 1       | 0         | 21.17                    | 21.07                       | 21.12                     |                        |             |
| 15              | 64QAM      | 1       | 37        | 21.34                    | 21.07                       | 21.08                     | 20.8                   | 3           |
| 15              | 64QAM      | 1       | 74        | 21.33                    | 20.94                       | 20.88                     |                        |             |
| 15              | 64QAM      | 36      | 0         | 20.15                    | 20.10                       | 19.97                     |                        |             |
| 15              | 64QAM      | 36      | 20        | 20.30                    | 20.08                       | 19.99                     | 20.8                   | 3           |
| 15              | 64QAM      | 36      | 39        | 20.20                    | 20.03                       | 20.01                     |                        |             |



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|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 20.16  | 20.02 | 20.03  |                        |             |
| 15              | 256QAM | 1  | 0  | 18.32  | 18.31 | 18.30  | 18.8                   | 2           |
| 15              | 256QAM | 1  | 37 | 18.41  | 18.40 | 18.31  |                        |             |
| 15              | 256QAM | 1  | 74 | 18.43  | 18.29 | 18.32  |                        |             |
| 15              | 256QAM | 36 | 0  | 18.27  | 18.27 | 18.36  | 18.8                   | 3           |
| 15              | 256QAM | 36 | 20 | 18.51  | 18.46 | 18.42  |                        |             |
| 15              | 256QAM | 36 | 39 | 18.43  | 18.39 | 18.31  |                        |             |
| 15              | 256QAM | 75 | 0  | 18.44  | 18.37 | 18.39  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 22.90  | 23.09 | 22.93  | 23.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 23.17  | 23.21 | 23.37  |                        |             |
| 10              | QPSK   | 1  | 49 | 22.95  | 22.99 | 22.95  |                        |             |
| 10              | QPSK   | 25 | 0  | 22.15  | 22.19 | 22.21  | 22.8                   | 1           |
| 10              | QPSK   | 25 | 12 | 22.09  | 22.14 | 22.21  |                        |             |
| 10              | QPSK   | 25 | 25 | 22.18  | 22.28 | 22.41  |                        |             |
| 10              | QPSK   | 50 | 0  | 22.17  | 22.18 | 22.09  |                        |             |
| 10              | 16QAM  | 1  | 0  | 22.02  | 22.11 | 22.27  | 22.8                   | 1           |
| 10              | 16QAM  | 1  | 25 | 22.34  | 22.39 | 22.51  |                        |             |
| 10              | 16QAM  | 1  | 49 | 22.13  | 22.37 | 22.18  |                        |             |
| 10              | 16QAM  | 25 | 0  | 21.12  | 21.31 | 21.12  | 21.8                   | 2           |
| 10              | 16QAM  | 25 | 12 | 21.29  | 21.43 | 21.23  |                        |             |
| 10              | 16QAM  | 25 | 25 | 21.31  | 21.36 | 21.52  |                        |             |
| 10              | 16QAM  | 50 | 0  | 21.12  | 21.17 | 21.15  |                        |             |
| 10              | 64QAM  | 1  | 0  | 20.79  | 20.93 | 20.91  | 21.8                   | 2           |
| 10              | 64QAM  | 1  | 25 | 21.08  | 21.19 | 20.85  |                        |             |
| 10              | 64QAM  | 1  | 49 | 20.87  | 20.99 | 20.92  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.93  | 19.82 | 19.79  | 20.8                   | 3           |
| 10              | 64QAM  | 25 | 12 | 20.12  | 19.96 | 19.90  |                        |             |
| 10              | 64QAM  | 25 | 25 | 20.11  | 19.83 | 19.82  |                        |             |
| 10              | 64QAM  | 50 | 0  | 20.00  | 19.80 | 19.75  |                        |             |
| 10              | 256QAM | 1  | 0  | 18.27  | 18.24 | 18.28  | 18.8                   | 2           |
| 10              | 256QAM | 1  | 25 | 18.31  | 18.35 | 18.26  |                        |             |
| 10              | 256QAM | 1  | 49 | 18.37  | 18.27 | 18.22  |                        |             |
| 10              | 256QAM | 25 | 0  | 18.23  | 18.18 | 18.26  | 18.8                   | 3           |
| 10              | 256QAM | 25 | 12 | 18.48  | 18.36 | 18.40  |                        |             |
| 10              | 256QAM | 25 | 25 | 18.38  | 18.33 | 18.26  |                        |             |
| 10              | 256QAM | 50 | 0  | 18.39  | 18.34 | 18.37  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 23.02  | 23.20 | 22.96  | 23.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 23.13  | 23.22 | 23.04  |                        |             |
| 5               | QPSK   | 1  | 24 | 23.08  | 23.15 | 23.03  |                        |             |
| 5               | QPSK   | 12 | 0  | 22.07  | 22.26 | 22.13  | 22.8                   | 1           |
| 5               | QPSK   | 12 | 7  | 22.16  | 22.31 | 22.16  |                        |             |
| 5               | QPSK   | 12 | 13 | 22.28  | 22.23 | 22.15  |                        |             |
| 5               | QPSK   | 25 | 0  | 22.25  | 22.32 | 22.14  |                        |             |
| 5               | 16QAM  | 1  | 0  | 22.13  | 22.27 | 22.21  | 22.8                   | 1           |
| 5               | 16QAM  | 1  | 12 | 22.21  | 22.32 | 22.20  |                        |             |
| 5               | 16QAM  | 1  | 24 | 22.31  | 22.33 | 22.23  |                        |             |
| 5               | 16QAM  | 12 | 0  | 21.06  | 21.16 | 21.10  | 21.8                   | 2           |
| 5               | 16QAM  | 12 | 7  | 21.24  | 21.30 | 21.17  |                        |             |
| 5               | 16QAM  | 12 | 13 | 21.21  | 21.22 | 21.15  |                        |             |
| 5               | 16QAM  | 25 | 0  | 21.18  | 21.33 | 21.16  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.94  | 20.86 | 20.76  | 21.8                   | 2           |
| 5               | 64QAM  | 1  | 12 | 21.16  | 20.96 | 20.89  |                        |             |



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|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 1  | 24 | 21.05 | 20.93 | 20.82 |      |   |
| 5 | 64QAM  | 12 | 0  | 19.96 | 19.84 | 19.89 | 20.8 | 3 |
| 5 | 64QAM  | 12 | 7  | 20.15 | 19.95 | 19.93 |      |   |
| 5 | 64QAM  | 12 | 13 | 20.05 | 19.87 | 19.91 |      |   |
| 5 | 64QAM  | 25 | 0  | 20.09 | 19.86 | 19.85 |      |   |
| 5 | 256QAM | 1  | 0  | 18.19 | 18.23 | 18.20 | 18.8 | 2 |
| 5 | 256QAM | 1  | 12 | 18.27 | 18.26 | 18.21 |      |   |
| 5 | 256QAM | 1  | 24 | 18.30 | 18.20 | 18.13 |      |   |
| 5 | 256QAM | 12 | 0  | 18.20 | 18.09 | 18.18 | 18.8 | 3 |
| 5 | 256QAM | 12 | 7  | 18.39 | 18.34 | 18.34 |      |   |
| 5 | 256QAM | 12 | 13 | 18.30 | 18.27 | 18.18 |      |   |
| 5 | 256QAM | 25 | 0  | 18.39 | 18.24 | 18.31 |      |   |



## &lt;LTE Band 41 PC3&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 23.8                | 0        |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 23.58                 | 23.52                        | 23.14                    | 23.14                         | 22.86                  | 23.8                | 0        |
| 20              | QPSK       | 1       | 49        | 23.58                 | 23.57                        | 23.60                    | 23.45                         | 23.30                  |                     |          |
| 20              | QPSK       | 1       | 99        | 23.48                 | 23.56                        | 23.23                    | 23.04                         | 23.20                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.68                 | 22.59                        | 22.41                    | 22.36                         | 22.16                  | 22.8                | 1        |
| 20              | QPSK       | 50      | 24        | 22.62                 | 22.58                        | 22.65                    | 22.44                         | 22.37                  |                     |          |
| 20              | QPSK       | 50      | 50        | 22.63                 | 22.55                        | 22.64                    | 22.36                         | 22.40                  |                     |          |
| 20              | QPSK       | 100     | 0         | 22.53                 | 22.49                        | 22.55                    | 22.42                         | 22.31                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 22.72                 | 22.67                        | 22.29                    | 22.22                         | 22.04                  | 22.8                | 1        |
| 20              | 16QAM      | 1       | 49        | 22.69                 | 22.66                        | 22.62                    | 22.55                         | 22.41                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 22.73                 | 22.64                        | 22.36                    | 22.11                         | 22.25                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 21.70                 | 21.59                        | 21.44                    | 21.41                         | 21.21                  | 21.8                | 2        |
| 20              | 16QAM      | 50      | 24        | 21.76                 | 21.70                        | 21.55                    | 21.47                         | 21.45                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 21.73                 | 21.66                        | 21.55                    | 21.39                         | 21.42                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 21.65                 | 21.58                        | 21.44                    | 21.43                         | 21.34                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 21.12                 | 21.13                        | 20.57                    | 20.65                         | 20.51                  | 21.8                | 2        |
| 20              | 64QAM      | 1       | 49        | 20.98                 | 21.19                        | 20.98                    | 21.00                         | 20.88                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 21.02                 | 21.19                        | 20.67                    | 20.59                         | 20.66                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 20.29                 | 20.36                        | 20.07                    | 20.09                         | 19.95                  | 20.8                | 3        |
| 20              | 64QAM      | 50      | 24        | 20.32                 | 20.45                        | 20.18                    | 20.15                         | 20.18                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 20.27                 | 20.44                        | 20.18                    | 20.07                         | 20.15                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 20.24                 | 20.35                        | 20.09                    | 20.11                         | 20.10                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 18.48                 | 18.42                        | 18.04                    | 18.04                         | 17.76                  | 18.8                | 2        |
| 20              | 256QAM     | 1       | 49        | 18.48                 | 18.47                        | 18.49                    | 18.35                         | 18.20                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 18.38                 | 18.46                        | 18.13                    | 17.94                         | 18.10                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 18.48                 | 18.39                        | 18.21                    | 18.16                         | 17.96                  | 18.8                | 3        |
| 20              | 256QAM     | 50      | 24        | 18.42                 | 18.38                        | 18.45                    | 18.24                         | 18.17                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 18.43                 | 18.35                        | 18.44                    | 18.16                         | 18.20                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 18.33                 | 18.29                        | 18.35                    | 18.22                         | 18.11                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 23.56                 | 23.33                        | 23.25                    | 23.25                         | 23.02                  | 23.8                | 0        |
| 15              | QPSK       | 1       | 37        | 23.58                 | 23.56                        | 23.51                    | 23.38                         | 23.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 23.58                 | 23.30                        | 23.38                    | 23.22                         | 23.22                  |                     |          |
| 15              | QPSK       | 36      | 0         | 22.70                 | 22.56                        | 22.43                    | 22.39                         | 22.20                  | 22.8                | 1        |
| 15              | QPSK       | 36      | 20        | 22.71                 | 22.68                        | 22.55                    | 22.51                         | 22.31                  |                     |          |
| 15              | QPSK       | 36      | 39        | 22.69                 | 22.62                        | 22.56                    | 22.41                         | 22.38                  |                     |          |
| 15              | QPSK       | 75      | 0         | 22.67                 | 22.62                        | 22.46                    | 22.44                         | 22.25                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 22.74                 | 22.47                        | 22.41                    | 22.38                         | 22.15                  | 22.8                | 1        |
| 15              | 16QAM      | 1       | 37        | 22.69                 | 22.69                        | 22.62                    | 22.55                         | 22.38                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.73                 | 22.49                        | 22.49                    | 22.31                         | 22.37                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 21.68                 | 21.49                        | 21.39                    | 21.34                         | 21.16                  | 21.8                | 2        |
| 15              | 16QAM      | 36      | 20        | 21.69                 | 21.67                        | 21.49                    | 21.47                         | 21.27                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.68                 | 21.59                        | 21.54                    | 21.38                         | 21.36                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 21.69                 | 21.66                        | 21.47                    | 21.46                         | 21.28                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 20.88                 | 20.93                        | 20.75                    | 20.81                         | 20.63                  | 21.8                | 2        |
| 15              | 64QAM      | 1       | 37        | 21.03                 | 21.17                        | 20.99                    | 20.97                         | 20.87                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 20.97                 | 20.97                        | 20.82                    | 20.77                         | 20.75                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 20.26                 | 20.31                        | 20.09                    | 20.09                         | 19.95                  | 20.8                | 3        |
| 15              | 64QAM      | 36      | 20        | 20.26                 | 20.45                        | 20.18                    | 20.19                         | 20.06                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 20.26                 | 20.36                        | 20.19                    | 20.10                         | 20.09                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 20.23                 | 20.37                        | 20.12                    | 20.15                         | 19.99                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 18.41  | 18.33  | 18.00 | 17.99   | 17.75  | 18.8                | 2        |
| 15              | 256QAM | 1  | 37 | 18.43  | 18.37  | 18.48 | 18.29   | 18.10  |                     |          |
| 15              | 256QAM | 1  | 74 | 18.37  | 18.42  | 18.04 | 17.94   | 18.03  |                     |          |
| 15              | 256QAM | 36 | 0  | 18.46  | 18.38  | 18.11 | 18.09   | 17.94  | 18.8                | 3        |
| 15              | 256QAM | 36 | 20 | 18.37  | 18.31  | 18.40 | 18.18   | 18.13  |                     |          |
| 15              | 256QAM | 36 | 39 | 18.37  | 18.30  | 18.42 | 18.12   | 18.13  |                     |          |
| 15              | 256QAM | 75 | 0  | 18.33  | 18.27  | 18.26 | 18.21   | 18.04  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                     |          |
| 10              | QPSK   | 1  | 0  | 23.46  | 23.29  | 23.01 | 22.86   | 22.82  | 23.8                | 0        |
| 10              | QPSK   | 1  | 25 | 23.57  | 23.41  | 23.30 | 23.17   | 23.08  |                     |          |
| 10              | QPSK   | 1  | 49 | 23.59  | 23.11  | 23.01 | 22.88   | 22.81  |                     |          |
| 10              | QPSK   | 25 | 0  | 22.55  | 22.38  | 22.29 | 22.18   | 22.14  | 22.8                | 1        |
| 10              | QPSK   | 25 | 12 | 22.63  | 22.55  | 22.37 | 22.22   | 22.25  |                     |          |
| 10              | QPSK   | 25 | 25 | 22.68  | 22.45  | 22.42 | 22.19   | 22.25  |                     |          |
| 10              | QPSK   | 50 | 0  | 22.56  | 22.46  | 22.28 | 22.10   | 22.09  | 22.8                | 1        |
| 10              | 16QAM  | 1  | 0  | 22.55  | 22.37  | 22.30 | 22.18   | 22.02  |                     |          |
| 10              | 16QAM  | 1  | 25 | 22.56  | 22.58  | 22.43 | 22.34   | 22.24  |                     |          |
| 10              | 16QAM  | 1  | 49 | 22.57  | 22.30  | 22.20 | 22.07   | 21.96  | 21.8                | 2        |
| 10              | 16QAM  | 25 | 0  | 21.63  | 21.42  | 21.33 | 21.17   | 21.11  |                     |          |
| 10              | 16QAM  | 25 | 12 | 21.68  | 21.57  | 21.41 | 21.25   | 21.22  |                     |          |
| 10              | 16QAM  | 25 | 25 | 21.74  | 21.48  | 21.45 | 21.23   | 21.24  | 21.8                | 2        |
| 10              | 16QAM  | 50 | 0  | 21.59  | 21.49  | 21.30 | 21.17   | 21.20  |                     |          |
| 10              | 64QAM  | 1  | 0  | 20.79  | 20.88  | 20.65 | 20.56   | 20.46  |                     |          |
| 10              | 64QAM  | 1  | 25 | 20.93  | 21.10  | 20.82 | 20.81   | 20.66  | 21.8                | 2        |
| 10              | 64QAM  | 1  | 49 | 20.72  | 20.75  | 20.41 | 20.52   | 20.27  |                     |          |
| 10              | 64QAM  | 25 | 0  | 20.15  | 20.19  | 19.96 | 19.89   | 19.81  |                     |          |
| 10              | 64QAM  | 25 | 12 | 20.24  | 20.35  | 20.07 | 19.97   | 19.98  | 20.8                | 3        |
| 10              | 64QAM  | 25 | 25 | 20.19  | 20.25  | 20.09 | 19.93   | 19.92  |                     |          |
| 10              | 64QAM  | 50 | 0  | 20.13  | 20.22  | 19.96 | 19.85   | 19.81  |                     |          |
| 10              | 256QAM | 1  | 0  | 18.36  | 18.26  | 17.93 | 17.99   | 17.69  | 18.8                | 2        |
| 10              | 256QAM | 1  | 25 | 18.38  | 18.33  | 18.41 | 18.22   | 18.00  |                     |          |
| 10              | 256QAM | 1  | 49 | 18.31  | 18.35  | 18.02 | 17.87   | 18.00  |                     |          |
| 10              | 256QAM | 25 | 0  | 18.40  | 18.30  | 18.04 | 18.08   | 17.89  | 18.8                | 3        |
| 10              | 256QAM | 25 | 12 | 18.31  | 18.27  | 18.39 | 18.12   | 18.11  |                     |          |
| 10              | 256QAM | 25 | 25 | 18.31  | 18.29  | 18.37 | 18.11   | 18.05  |                     |          |
| 10              | 256QAM | 50 | 0  | 18.24  | 18.24  | 18.22 | 18.20   | 18.03  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 23.51  | 23.40  | 23.23 | 23.20   | 23.12  | 23.8                | 0        |
| 5               | QPSK   | 1  | 12 | 23.46  | 23.41  | 23.31 | 23.21   | 23.14  |                     |          |
| 5               | QPSK   | 1  | 24 | 23.48  | 23.43  | 23.24 | 23.19   | 23.12  |                     |          |
| 5               | QPSK   | 12 | 0  | 22.53  | 22.51  | 22.35 | 22.22   | 22.21  | 22.8                | 1        |
| 5               | QPSK   | 12 | 7  | 22.54  | 22.56  | 22.45 | 22.34   | 22.22  |                     |          |
| 5               | QPSK   | 12 | 13 | 22.53  | 22.55  | 22.43 | 22.31   | 22.20  |                     |          |
| 5               | QPSK   | 25 | 0  | 22.51  | 22.53  | 22.34 | 22.31   | 22.21  | 22.8                | 1        |
| 5               | 16QAM  | 1  | 0  | 22.62  | 22.53  | 22.41 | 22.30   | 22.27  |                     |          |
| 5               | 16QAM  | 1  | 12 | 22.68  | 22.70  | 22.50 | 22.43   | 22.33  |                     |          |
| 5               | 16QAM  | 1  | 24 | 22.63  | 22.58  | 22.42 | 22.35   | 22.22  | 21.8                | 2        |
| 5               | 16QAM  | 12 | 0  | 21.53  | 21.52  | 21.34 | 21.28   | 21.17  |                     |          |
| 5               | 16QAM  | 12 | 7  | 21.54  | 21.58  | 21.39 | 21.33   | 21.20  |                     |          |
| 5               | 16QAM  | 12 | 13 | 21.51  | 21.52  | 21.37 | 21.30   | 21.15  | 21.8                | 2        |
| 5               | 16QAM  | 25 | 0  | 21.56  | 21.55  | 21.41 | 21.32   | 21.22  |                     |          |
| 5               | 64QAM  | 1  | 0  | 20.94  | 21.06  | 21.06 | 20.74   | 20.63  |                     |          |
| 5               | 64QAM  | 1  | 12 | 20.92  | 21.11  | 21.11 | 20.82   | 20.63  | 21.8                | 2        |
| 5               | 64QAM  | 1  | 24 | 20.91  | 21.06  | 21.06 | 20.80   | 20.56  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 20.06 | 20.32 | 20.32 | 19.95 | 19.87 | 20.8 | 3 |
| 5 | 64QAM  | 12 | 7  | 20.11 | 20.36 | 20.36 | 20.04 | 19.93 |      |   |
| 5 | 64QAM  | 12 | 13 | 20.09 | 20.34 | 20.34 | 19.99 | 19.89 |      |   |
| 5 | 64QAM  | 25 | 0  | 20.11 | 20.33 | 20.33 | 20.04 | 19.90 |      |   |
| 5 | 256QAM | 1  | 0  | 18.33 | 18.26 | 17.84 | 17.93 | 17.61 | 18.8 | 2 |
| 5 | 256QAM | 1  | 12 | 18.33 | 18.33 | 18.35 | 18.22 | 17.99 |      |   |
| 5 | 256QAM | 1  | 24 | 18.24 | 18.34 | 17.95 | 17.85 | 17.99 |      |   |
| 5 | 256QAM | 12 | 0  | 18.31 | 18.23 | 17.99 | 18.01 | 17.86 | 18.8 | 3 |
| 5 | 256QAM | 12 | 7  | 18.30 | 18.18 | 18.30 | 18.02 | 18.04 |      |   |
| 5 | 256QAM | 12 | 13 | 18.28 | 18.26 | 18.33 | 18.05 | 18.02 |      |   |
| 5 | 256QAM | 25 | 0  | 18.16 | 18.15 | 18.15 | 18.10 | 17.97 |      |   |



## &lt;LTE Band 41 PC2&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 26.3                | 0        |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 25.64                 | 25.57                        | 25.23                    | 25.35                         | 25.18                  |                     |          |
| 20              | QPSK       | 1       | 49        | 25.65                 | 25.59                        | 25.72                    | 25.66                         | 25.56                  | 26.3                | 0        |
| 20              | QPSK       | 1       | 99        | 25.68                 | 25.62                        | 25.62                    | 25.27                         | 25.31                  |                     |          |
| 20              | QPSK       | 50      | 0         | 24.84                 | 24.68                        | 24.68                    | 24.71                         | 24.56                  |                     |          |
| 20              | QPSK       | 50      | 24        | 24.86                 | 24.79                        | 24.89                    | 24.78                         | 24.72                  | 25.3                | 1        |
| 20              | QPSK       | 50      | 50        | 24.82                 | 24.79                        | 24.85                    | 24.74                         | 24.73                  |                     |          |
| 20              | QPSK       | 100     | 0         | 24.74                 | 24.68                        | 24.76                    | 24.70                         | 24.58                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 25.02                 | 24.95                        | 24.63                    | 24.74                         | 24.54                  | 25.3                | 1        |
| 20              | 16QAM      | 1       | 49        | 25.03                 | 24.96                        | 25.02                    | 24.97                         | 24.95                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 24.97                 | 24.97                        | 24.92                    | 24.56                         | 24.71                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 23.86                 | 23.75                        | 23.69                    | 23.74                         | 23.60                  | 24.3                | 2        |
| 20              | 16QAM      | 50      | 24        | 23.90                 | 23.84                        | 23.88                    | 23.81                         | 23.72                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 23.84                 | 23.80                        | 23.93                    | 23.76                         | 23.76                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 23.79                 | 23.75                        | 23.79                    | 23.70                         | 23.64                  | 24.3                | 2        |
| 20              | 64QAM      | 1       | 0         | 23.27                 | 23.52                        | 23.19                    | 23.20                         | 22.98                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 23.42                 | 23.61                        | 23.65                    | 23.46                         | 23.45                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 23.45                 | 23.61                        | 23.53                    | 22.96                         | 23.13                  | 23.3                | 3        |
| 20              | 64QAM      | 50      | 0         | 22.44                 | 22.49                        | 22.46                    | 22.42                         | 22.23                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 22.46                 | 22.60                        | 22.62                    | 22.50                         | 22.38                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 22.43                 | 22.55                        | 22.69                    | 22.44                         | 22.40                  | 21.3                | 2        |
| 20              | 64QAM      | 100     | 0         | 22.40                 | 22.49                        | 22.53                    | 22.37                         | 22.27                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 20.53                 | 20.46                        | 20.12                    | 20.24                         | 20.07                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 20.54                 | 20.48                        | 20.58                    | 20.55                         | 20.45                  | 21.3                | 3        |
| 20              | 256QAM     | 1       | 99        | 20.57                 | 20.51                        | 20.51                    | 20.16                         | 20.20                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 20.57                 | 20.46                        | 20.46                    | 20.49                         | 20.34                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 20.60                 | 20.57                        | 20.61                    | 20.56                         | 20.50                  | 20.52               | 0        |
| 20              | 256QAM     | 50      | 50        | 20.60                 | 20.57                        | 20.59                    | 20.52                         | 20.51                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 20.52                 | 20.46                        | 20.54                    | 20.48                         | 20.36                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | 26.3                | 0        |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 25.62                 | 25.44                        | 25.38                    | 25.54                         | 25.45                  |                     |          |
| 15              | QPSK       | 1       | 37        | 25.63                 | 25.69                        | 25.64                    | 25.71                         | 25.65                  | 26.3                | 0        |
| 15              | QPSK       | 1       | 74        | 25.63                 | 25.43                        | 25.53                    | 25.51                         | 25.65                  |                     |          |
| 15              | QPSK       | 36      | 0         | 24.83                 | 24.67                        | 24.63                    | 24.74                         | 24.73                  | 25.3                | 1        |
| 15              | QPSK       | 36      | 20        | 24.86                 | 24.82                        | 24.79                    | 24.87                         | 24.84                  |                     |          |
| 15              | QPSK       | 36      | 39        | 24.85                 | 24.72                        | 24.74                    | 24.75                         | 24.92                  |                     |          |
| 15              | QPSK       | 75      | 0         | 24.80                 | 24.74                        | 24.62                    | 24.81                         | 24.80                  | 25.3                | 1        |
| 15              | 16QAM      | 1       | 0         | 25.01                 | 24.80                        | 24.72                    | 24.84                         | 24.82                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 24.98                 | 24.98                        | 24.90                    | 24.96                         | 25.05                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 25.03                 | 24.82                        | 24.83                    | 24.75                         | 25.05                  | 24.3                | 2        |
| 15              | 16QAM      | 36      | 0         | 23.84                 | 23.64                        | 23.59                    | 23.71                         | 23.73                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 23.86                 | 23.78                        | 23.78                    | 23.85                         | 23.84                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 23.81                 | 23.72                        | 23.76                    | 23.77                         | 23.92                  | 24.3                | 2        |
| 15              | 16QAM      | 75      | 0         | 23.82                 | 23.74                        | 23.67                    | 23.81                         | 23.80                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 23.18                 | 23.33                        | 23.12                    | 23.36                         | 23.33                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 23.46                 | 23.62                        | 23.44                    | 23.38                         | 23.65                  | 24.3                | 2        |
| 15              | 64QAM      | 1       | 74        | 23.42                 | 23.35                        | 23.33                    | 23.16                         | 23.61                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 22.43                 | 22.44                        | 22.25                    | 22.42                         | 22.48                  | 23.3                | 3        |
| 15              | 64QAM      | 36      | 20        | 22.43                 | 22.58                        | 22.43                    | 22.56                         | 22.58                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 22.43                 | 22.52                        | 22.41                    | 22.41                         | 22.64                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 22.39                 | 22.54                        | 22.31                    | 22.49                         | 22.53                  | 23.3                | 3        |
| 15              | 64QAM      | 75      | 0         | 22.39                 | 22.54                        | 22.31                    | 22.49                         | 22.53                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 22.39                 | 22.54                        | 22.31                    | 22.49                         | 22.53                  |                     |          |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 20.48  | 20.37  | 20.07 | 20.16   | 20.02  | 21.3                | 2        |
| 15              | 256QAM | 1  | 37 | 20.47  | 20.39  | 20.57 | 20.45   | 20.43  |                     |          |
| 15              | 256QAM | 1  | 74 | 20.50  | 20.43  | 20.49 | 20.12   | 20.20  |                     |          |
| 15              | 256QAM | 36 | 0  | 20.53  | 20.43  | 20.37 | 20.46   | 20.33  | 21.3                | 3        |
| 15              | 256QAM | 36 | 20 | 20.52  | 20.57  | 20.59 | 20.54   | 20.50  |                     |          |
| 15              | 256QAM | 36 | 39 | 20.54  | 20.51  | 20.51 | 20.48   | 20.45  |                     |          |
| 15              | 256QAM | 75 | 0  | 20.44  | 20.36  | 20.45 | 20.39   | 20.29  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                     |          |
| 10              | QPSK   | 1  | 0  | 25.50  | 25.16  | 25.09 | 25.22   | 25.27  | 26.3                | 0        |
| 10              | QPSK   | 1  | 25 | 25.45  | 25.41  | 25.37 | 25.45   | 25.50  |                     |          |
| 10              | QPSK   | 1  | 49 | 25.47  | 25.26  | 25.20 | 25.21   | 25.34  |                     |          |
| 10              | QPSK   | 25 | 0  | 24.66  | 24.49  | 24.43 | 24.53   | 24.60  | 25.3                | 1        |
| 10              | QPSK   | 25 | 12 | 24.69  | 24.64  | 24.54 | 24.71   | 24.80  |                     |          |
| 10              | QPSK   | 25 | 25 | 24.65  | 24.56  | 24.52 | 24.60   | 24.65  |                     |          |
| 10              | QPSK   | 50 | 0  | 24.60  | 24.56  | 24.46 | 24.62   | 24.60  | 25.3                | 1        |
| 10              | 16QAM  | 1  | 0  | 24.87  | 24.58  | 24.46 | 24.61   | 24.69  |                     |          |
| 10              | 16QAM  | 1  | 25 | 24.89  | 24.78  | 24.73 | 24.85   | 24.90  |                     |          |
| 10              | 16QAM  | 1  | 49 | 24.87  | 24.57  | 24.54 | 24.62   | 24.64  | 24.3                | 2        |
| 10              | 16QAM  | 25 | 0  | 23.69  | 23.49  | 23.44 | 23.53   | 23.60  |                     |          |
| 10              | 16QAM  | 25 | 12 | 23.72  | 23.70  | 23.55 | 23.74   | 23.79  |                     |          |
| 10              | 16QAM  | 25 | 25 | 23.69  | 23.57  | 23.51 | 23.66   | 23.69  | 24.3                | 2        |
| 10              | 16QAM  | 50 | 0  | 23.64  | 23.60  | 23.47 | 23.63   | 23.64  |                     |          |
| 10              | 64QAM  | 1  | 0  | 23.12  | 23.16  | 22.94 | 23.10   | 23.18  |                     |          |
| 10              | 64QAM  | 1  | 25 | 23.30  | 23.53  | 23.37 | 23.43   | 23.56  | 24.3                | 2        |
| 10              | 64QAM  | 1  | 49 | 23.29  | 23.21  | 23.07 | 23.18   | 23.21  |                     |          |
| 10              | 64QAM  | 25 | 0  | 22.30  | 22.36  | 22.17 | 22.28   | 22.39  |                     |          |
| 10              | 64QAM  | 25 | 12 | 22.29  | 22.54  | 22.29 | 22.45   | 22.53  | 23.3                | 3        |
| 10              | 64QAM  | 25 | 25 | 22.29  | 22.41  | 22.23 | 22.34   | 22.43  |                     |          |
| 10              | 64QAM  | 50 | 0  | 22.16  | 22.40  | 22.12 | 22.31   | 22.35  |                     |          |
| 10              | 256QAM | 1  | 0  | 20.40  | 20.27  | 20.03 | 20.07   | 20.01  | 21.3                | 2        |
| 10              | 256QAM | 1  | 25 | 20.38  | 20.29  | 20.47 | 20.38   | 20.43  |                     |          |
| 10              | 256QAM | 1  | 49 | 20.49  | 20.40  | 20.42 | 20.12   | 20.12  |                     |          |
| 10              | 256QAM | 25 | 0  | 20.50  | 20.41  | 20.28 | 20.46   | 20.30  | 21.3                | 3        |
| 10              | 256QAM | 25 | 12 | 20.47  | 20.48  | 20.57 | 20.47   | 20.49  |                     |          |
| 10              | 256QAM | 25 | 25 | 20.44  | 20.47  | 20.51 | 20.44   | 20.43  |                     |          |
| 10              | 256QAM | 50 | 0  | 20.37  | 20.33  | 20.35 | 20.29   | 20.28  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 25.51  | 25.41  | 25.36 | 25.44   | 25.56  | 26.3                | 0        |
| 5               | QPSK   | 1  | 12 | 25.45  | 25.45  | 25.37 | 25.52   | 25.49  |                     |          |
| 5               | QPSK   | 1  | 24 | 25.50  | 25.44  | 25.36 | 25.47   | 25.48  |                     |          |
| 5               | QPSK   | 12 | 0  | 24.66  | 24.65  | 24.53 | 24.64   | 24.73  | 25.3                | 1        |
| 5               | QPSK   | 12 | 7  | 24.72  | 24.70  | 24.62 | 24.70   | 24.74  |                     |          |
| 5               | QPSK   | 12 | 13 | 24.67  | 24.67  | 24.57 | 24.67   | 24.72  |                     |          |
| 5               | QPSK   | 25 | 0  | 24.64  | 24.63  | 24.49 | 24.63   | 24.71  | 25.3                | 1        |
| 5               | 16QAM  | 1  | 0  | 24.81  | 24.74  | 24.70 | 24.75   | 24.89  |                     |          |
| 5               | 16QAM  | 1  | 12 | 24.82  | 24.77  | 24.74 | 24.80   | 24.89  |                     |          |
| 5               | 16QAM  | 1  | 24 | 24.86  | 24.81  | 24.72 | 24.79   | 24.87  | 24.3                | 2        |
| 5               | 16QAM  | 12 | 0  | 23.72  | 23.67  | 23.54 | 23.65   | 23.80  |                     |          |
| 5               | 16QAM  | 12 | 7  | 23.76  | 23.72  | 23.64 | 23.73   | 23.81  |                     |          |
| 5               | 16QAM  | 12 | 13 | 23.73  | 23.69  | 23.60 | 23.68   | 23.75  | 24.3                | 2        |
| 5               | 16QAM  | 25 | 0  | 23.70  | 23.70  | 23.54 | 23.72   | 23.77  |                     |          |
| 5               | 64QAM  | 1  | 0  | 23.10  | 23.38  | 23.22 | 23.30   | 23.43  |                     |          |
| 5               | 64QAM  | 1  | 12 | 23.25  | 23.45  | 23.25 | 23.36   | 23.44  | 24.3                | 2        |
| 5               | 64QAM  | 1  | 24 | 23.28  | 23.43  | 23.28 | 23.37   | 23.40  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 22.26 | 22.44 | 22.25 | 22.32 | 22.49 | 23.3 | 3 |
| 5 | 64QAM  | 12 | 7  | 22.29 | 22.50 | 22.33 | 22.42 | 22.50 |      |   |
| 5 | 64QAM  | 12 | 13 | 22.25 | 22.49 | 22.28 | 22.40 | 22.49 |      |   |
| 5 | 64QAM  | 25 | 0  | 22.29 | 22.46 | 22.24 | 22.39 | 22.49 |      |   |
| 5 | 256QAM | 1  | 0  | 20.33 | 20.26 | 19.97 | 20.03 | 19.91 | 21.3 | 2 |
| 5 | 256QAM | 1  | 12 | 20.33 | 20.19 | 20.41 | 20.35 | 20.33 |      |   |
| 5 | 256QAM | 1  | 24 | 20.43 | 20.38 | 20.41 | 20.04 | 20.04 |      |   |
| 5 | 256QAM | 12 | 0  | 20.48 | 20.34 | 20.26 | 20.38 | 20.27 | 21.3 | 3 |
| 5 | 256QAM | 12 | 7  | 20.44 | 20.43 | 20.54 | 20.46 | 20.39 |      |   |
| 5 | 256QAM | 12 | 13 | 20.36 | 20.45 | 20.45 | 20.34 | 20.34 |      |   |
| 5 | 256QAM | 25 | 0  | 20.30 | 20.32 | 20.33 | 20.27 | 20.23 |      |   |



## UAT Reduced Power Mode for Next-to-Head

## &lt;LTE Band 38&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  | 17.3                | 0        |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 16.65                 | 16.71                    | 16.75                  |                     |          |
| 20              | QPSK       | 1       | 49        | 16.98                 | 16.92                    | 16.97                  | 17.3                | 0        |
| 20              | QPSK       | 1       | 99        | 16.92                 | 16.91                    | 16.90                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.76                 | 16.74                    | 16.94                  |                     |          |
| 20              | QPSK       | 50      | 24        | 16.93                 | 16.92                    | 16.91                  | 17.3                | 0        |
| 20              | QPSK       | 50      | 50        | 16.92                 | 16.90                    | 16.90                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.79                 | 16.88                    | 16.93                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 16.90                 | 16.97                    | 16.96                  | 17.3                | 0        |
| 20              | 16QAM      | 1       | 49        | 16.93                 | 16.95                    | 16.96                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 16.91                 | 16.93                    | 16.97                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 16.12                 | 16.43                    | 16.46                  | 17.3                | 0        |
| 20              | 16QAM      | 50      | 24        | 16.50                 | 16.57                    | 16.58                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 16.40                 | 16.47                    | 16.41                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 16.41                 | 16.42                    | 16.43                  | 17.3                | 0        |
| 20              | 64QAM      | 1       | 0         | 16.27                 | 16.11                    | 16.11                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 16.25                 | 16.19                    | 16.10                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 16.34                 | 16.16                    | 16.08                  | 17.3                | 0        |
| 20              | 64QAM      | 50      | 0         | 16.02                 | 16.00                    | 16.12                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 16.25                 | 16.12                    | 16.20                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 16.22                 | 16.01                    | 16.11                  | 17.3                | 0        |
| 20              | 64QAM      | 100     | 0         | 16.17                 | 16.07                    | 15.99                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.05                 | 15.91                    | 15.95                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 16.01                 | 16.12                    | 16.07                  | 16.8                | 0        |
| 20              | 256QAM     | 1       | 99        | 16.12                 | 16.11                    | 16.10                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.06                 | 15.94                    | 16.02                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 16.13                 | 16.12                    | 16.11                  | 16.8                | 0        |
| 20              | 256QAM     | 50      | 50        | 16.12                 | 16.10                    | 16.10                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 15.99                 | 16.08                    | 16.13                  |                     |          |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  | 17.3                | 0        |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 16.48                 | 16.30                    | 16.53                  |                     |          |
| 15              | QPSK       | 1       | 37        | 16.51                 | 16.40                    | 16.54                  | 17.3                | 0        |
| 15              | QPSK       | 1       | 74        | 16.59                 | 16.41                    | 16.39                  |                     |          |
| 15              | QPSK       | 36      | 0         | 16.45                 | 16.49                    | 16.46                  |                     |          |
| 15              | QPSK       | 36      | 20        | 16.61                 | 16.48                    | 16.60                  | 17.3                | 0        |
| 15              | QPSK       | 36      | 39        | 16.62                 | 16.40                    | 16.55                  |                     |          |
| 15              | QPSK       | 75      | 0         | 16.62                 | 16.43                    | 16.55                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 16.75                 | 16.62                    | 16.80                  | 17.3                | 0        |
| 15              | 16QAM      | 1       | 37        | 16.86                 | 16.71                    | 16.74                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 16.96                 | 16.68                    | 16.73                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 16.50                 | 16.44                    | 16.53                  | 17.3                | 0        |
| 15              | 16QAM      | 36      | 20        | 16.65                 | 16.53                    | 16.54                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 16.63                 | 16.36                    | 16.49                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 16.63                 | 16.49                    | 16.58                  | 17.3                | 0        |
| 15              | 64QAM      | 1       | 0         | 16.61                 | 16.52                    | 16.59                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 16.82                 | 16.61                    | 16.61                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 16.80                 | 16.54                    | 16.73                  | 17.3                | 0        |
| 15              | 64QAM      | 36      | 0         | 16.52                 | 16.50                    | 16.49                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 16.67                 | 16.54                    | 16.68                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 16.69                 | 16.43                    | 16.56                  |                     |          |



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|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 16.61  | 16.37 | 16.63  |                        |             |
| 15              | 256QAM | 1  | 0  | 16.03  | 15.90 | 15.92  | 16.8                   | 0           |
| 15              | 256QAM | 1  | 37 | 15.97  | 16.04 | 16.03  |                        |             |
| 15              | 256QAM | 1  | 74 | 16.09  | 16.06 | 16.02  |                        |             |
| 15              | 256QAM | 36 | 0  | 16.03  | 15.84 | 15.99  | 16.8                   | 0           |
| 15              | 256QAM | 36 | 20 | 16.07  | 16.02 | 16.07  |                        |             |
| 15              | 256QAM | 36 | 39 | 16.05  | 16.00 | 16.10  |                        |             |
| 15              | 256QAM | 75 | 0  | 15.97  | 16.06 | 16.09  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 15.87  | 16.22 | 16.27  | 17.3                   | 0           |
| 10              | QPSK   | 1  | 25 | 16.21  | 16.17 | 16.18  |                        |             |
| 10              | QPSK   | 1  | 49 | 16.02  | 16.16 | 16.24  |                        |             |
| 10              | QPSK   | 25 | 0  | 16.24  | 16.09 | 16.33  | 17.3                   | 0           |
| 10              | QPSK   | 25 | 12 | 16.42  | 16.28 | 16.44  |                        |             |
| 10              | QPSK   | 25 | 25 | 16.37  | 16.31 | 16.31  |                        |             |
| 10              | QPSK   | 50 | 0  | 16.34  | 16.20 | 16.34  |                        |             |
| 10              | 16QAM  | 1  | 0  | 16.37  | 16.50 | 16.52  | 17.3                   | 0           |
| 10              | 16QAM  | 1  | 25 | 16.51  | 16.57 | 16.54  |                        |             |
| 10              | 16QAM  | 1  | 49 | 16.32  | 16.68 | 16.62  |                        |             |
| 10              | 16QAM  | 25 | 0  | 16.33  | 16.33 | 16.36  | 17.3                   | 0           |
| 10              | 16QAM  | 25 | 12 | 16.36  | 16.37 | 16.36  |                        |             |
| 10              | 16QAM  | 25 | 25 | 16.44  | 16.38 | 16.28  |                        |             |
| 10              | 16QAM  | 50 | 0  | 16.27  | 16.18 | 16.42  |                        |             |
| 10              | 64QAM  | 1  | 0  | 16.20  | 16.37 | 16.56  | 17.3                   | 0           |
| 10              | 64QAM  | 1  | 25 | 16.54  | 16.37 | 16.44  |                        |             |
| 10              | 64QAM  | 1  | 49 | 16.34  | 16.53 | 16.59  |                        |             |
| 10              | 64QAM  | 25 | 0  | 16.35  | 16.24 | 16.40  | 17.3                   | 0           |
| 10              | 64QAM  | 25 | 12 | 16.58  | 16.40 | 16.47  |                        |             |
| 10              | 64QAM  | 25 | 25 | 16.46  | 16.46 | 16.38  |                        |             |
| 10              | 64QAM  | 50 | 0  | 16.40  | 16.32 | 16.34  |                        |             |
| 10              | 256QAM | 1  | 0  | 15.98  | 15.86 | 15.89  | 16.8                   | 0           |
| 10              | 256QAM | 1  | 25 | 15.90  | 16.00 | 15.98  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.08  | 16.04 | 15.94  |                        |             |
| 10              | 256QAM | 25 | 0  | 15.99  | 15.79 | 15.99  | 16.8                   | 0           |
| 10              | 256QAM | 25 | 12 | 16.02  | 16.00 | 15.97  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.03  | 15.91 | 16.09  |                        |             |
| 10              | 256QAM | 50 | 0  | 15.94  | 16.04 | 16.04  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 16.18  | 16.07 | 16.12  | 17.3                   | 0           |
| 5               | QPSK   | 1  | 12 | 16.21  | 16.20 | 16.13  |                        |             |
| 5               | QPSK   | 1  | 24 | 16.24  | 16.11 | 16.22  |                        |             |
| 5               | QPSK   | 12 | 0  | 16.46  | 16.30 | 16.34  | 17.3                   | 0           |
| 5               | QPSK   | 12 | 7  | 16.43  | 16.28 | 16.42  |                        |             |
| 5               | QPSK   | 12 | 13 | 16.42  | 16.38 | 16.40  |                        |             |
| 5               | QPSK   | 25 | 0  | 16.34  | 16.29 | 16.44  |                        |             |
| 5               | 16QAM  | 1  | 0  | 16.43  | 16.50 | 16.61  | 17.3                   | 0           |
| 5               | 16QAM  | 1  | 12 | 16.56  | 16.51 | 16.54  |                        |             |
| 5               | 16QAM  | 1  | 24 | 16.68  | 16.47 | 16.62  |                        |             |
| 5               | 16QAM  | 12 | 0  | 16.39  | 16.28 | 16.45  | 17.3                   | 0           |
| 5               | 16QAM  | 12 | 7  | 16.48  | 16.36 | 16.50  |                        |             |
| 5               | 16QAM  | 12 | 13 | 16.48  | 16.39 | 16.44  |                        |             |
| 5               | 16QAM  | 25 | 0  | 16.51  | 16.35 | 16.49  |                        |             |
| 5               | 64QAM  | 1  | 0  | 16.52  | 16.17 | 16.47  | 17.3                   | 0           |
| 5               | 64QAM  | 1  | 12 | 16.61  | 16.50 | 16.44  |                        |             |



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|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 1  | 24 | 16.46 | 16.43 | 16.43 |      |   |
| 5 | 64QAM  | 12 | 0  | 16.46 | 16.36 | 16.48 | 17.3 | 0 |
| 5 | 64QAM  | 12 | 7  | 16.51 | 16.38 | 16.53 |      |   |
| 5 | 64QAM  | 12 | 13 | 16.48 | 16.48 | 16.51 |      |   |
| 5 | 64QAM  | 25 | 0  | 16.49 | 16.39 | 16.47 |      |   |
| 5 | 256QAM | 1  | 0  | 15.91 | 15.76 | 15.87 | 16.8 | 0 |
| 5 | 256QAM | 1  | 12 | 15.81 | 15.90 | 15.89 |      |   |
| 5 | 256QAM | 1  | 24 | 15.98 | 15.99 | 15.93 |      |   |
| 5 | 256QAM | 12 | 0  | 15.90 | 15.70 | 15.92 | 16.8 | 0 |
| 5 | 256QAM | 12 | 7  | 16.00 | 15.94 | 15.89 |      |   |
| 5 | 256QAM | 12 | 13 | 16.02 | 15.91 | 16.03 |      |   |
| 5 | 256QAM | 25 | 0  | 15.91 | 15.94 | 16.02 |      |   |



## &lt;LTE Band 41 PC3&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 16.74                 | 16.72                        | 16.89                    | 16.77                         | 16.59                  | 17.3                | 0        |
| 20              | QPSK       | 1       | 49        | 16.61                 | 16.89                        | 17.15                    | 17.13                         | 17.05                  |                     |          |
| 20              | QPSK       | 1       | 99        | 16.65                 | 16.94                        | 16.89                    | 16.59                         | 16.95                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.63                 | 16.80                        | 17.00                    | 17.12                         | 17.02                  | 17.3                | 0        |
| 20              | QPSK       | 50      | 24        | 16.73                 | 17.02                        | 17.12                    | 17.11                         | 17.10                  |                     |          |
| 20              | QPSK       | 50      | 50        | 16.65                 | 17.01                        | 17.00                    | 17.10                         | 17.08                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.76                 | 16.91                        | 17.11                    | 17.10                         | 17.09                  | 17.3                | 0        |
| 20              | 16QAM      | 1       | 0         | 16.82                 | 17.07                        | 16.77                    | 17.01                         | 16.74                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 16.78                 | 17.03                        | 17.03                    | 17.11                         | 17.02                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 16.73                 | 17.06                        | 17.04                    | 16.87                         | 17.00                  | 17.3                | 0        |
| 20              | 16QAM      | 50      | 0         | 16.25                 | 16.38                        | 16.61                    | 16.62                         | 16.47                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 16.32                 | 16.51                        | 16.69                    | 16.64                         | 16.70                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 16.16                 | 16.50                        | 16.77                    | 16.55                         | 16.68                  | 17.3                | 0        |
| 20              | 16QAM      | 100     | 0         | 16.15                 | 16.44                        | 16.56                    | 16.67                         | 16.64                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 15.96                 | 16.13                        | 15.67                    | 15.85                         | 15.61                  | 17.3                | 0        |
| 20              | 64QAM      | 1       | 49        | 15.92                 | 16.14                        | 16.15                    | 16.18                         | 16.11                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 16.02                 | 16.03                        | 15.85                    | 15.65                         | 16.09                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 16.18                 | 16.28                        | 16.14                    | 16.18                         | 16.11                  | 17.3                | 0        |
| 20              | 64QAM      | 50      | 24        | 16.24                 | 16.38                        | 16.28                    | 16.28                         | 16.34                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 16.26                 | 16.35                        | 16.35                    | 16.24                         | 16.37                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 16.13                 | 16.29                        | 16.20                    | 16.23                         | 16.32                  | 16.8                | 0        |
| 20              | 256QAM     | 1       | 0         | 15.94                 | 15.92                        | 16.09                    | 15.97                         | 15.79                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 15.81                 | 16.09                        | 16.35                    | 16.33                         | 16.25                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 15.85                 | 16.14                        | 16.09                    | 15.79                         | 16.15                  | 16.8                | 0        |
| 20              | 256QAM     | 50      | 0         | 15.83                 | 16.00                        | 16.20                    | 16.32                         | 16.22                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 15.93                 | 16.22                        | 16.32                    | 16.31                         | 16.30                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 15.85                 | 16.21                        | 16.20                    | 16.30                         | 16.28                  | 16.8                | 0        |
| 20              | 256QAM     | 100     | 0         | 15.96                 | 16.11                        | 16.31                    | 16.30                         | 16.29                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 16.40                 | 16.58                        | 16.46                    | 16.64                         | 16.50                  | 17.3                | 0        |
| 15              | QPSK       | 1       | 37        | 16.41                 | 16.72                        | 16.68                    | 16.72                         | 16.61                  |                     |          |
| 15              | QPSK       | 1       | 74        | 16.47                 | 16.54                        | 16.48                    | 16.56                         | 16.74                  |                     |          |
| 15              | QPSK       | 36      | 0         | 16.54                 | 16.62                        | 16.58                    | 16.73                         | 16.61                  | 17.3                | 0        |
| 15              | QPSK       | 36      | 20        | 16.60                 | 16.81                        | 16.69                    | 16.72                         | 16.80                  |                     |          |
| 15              | QPSK       | 36      | 39        | 16.52                 | 16.71                        | 16.72                    | 16.71                         | 16.75                  |                     |          |
| 15              | QPSK       | 75      | 0         | 16.55                 | 16.71                        | 16.60                    | 16.66                         | 16.73                  | 17.3                | 0        |
| 15              | 16QAM      | 1       | 0         | 16.71                 | 16.68                        | 16.50                    | 16.77                         | 16.62                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 16.40                 | 16.86                        | 16.83                    | 16.89                         | 16.94                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 16.63                 | 16.72                        | 16.65                    | 16.72                         | 16.89                  | 17.3                | 0        |
| 15              | 16QAM      | 36      | 0         | 16.48                 | 16.66                        | 16.58                    | 16.74                         | 16.69                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 16.49                 | 16.84                        | 16.67                    | 16.76                         | 16.78                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 16.42                 | 16.76                        | 16.66                    | 16.82                         | 16.77                  | 17.3                | 0        |
| 15              | 16QAM      | 75      | 0         | 16.55                 | 16.78                        | 16.60                    | 16.68                         | 16.82                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 16.20                 | 16.42                        | 16.07                    | 16.59                         | 16.36                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 16.34                 | 16.72                        | 16.52                    | 16.73                         | 16.66                  | 17.3                | 0        |
| 15              | 64QAM      | 1       | 74        | 16.36                 | 16.46                        | 16.31                    | 16.46                         | 16.60                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 16.52                 | 16.79                        | 16.67                    | 16.70                         | 16.72                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 16.61                 | 16.89                        | 16.73                    | 16.79                         | 16.97                  | 17.3                | 0        |
| 15              | 64QAM      | 36      | 39        | 16.52                 | 16.86                        | 16.78                    | 16.80                         | 16.78                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 16.55                 | 16.84                        | 16.67                    | 16.86                         | 16.86                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 15.84  | 15.90  | 16.07 | 15.95   | 15.72  | 16.8                | 0        |
| 15              | 256QAM | 1  | 37 | 15.76  | 16.02  | 16.28 | 16.25   | 16.22  |                     |          |
| 15              | 256QAM | 1  | 74 | 15.77  | 16.08  | 16.05 | 15.69   | 16.07  |                     |          |
| 15              | 256QAM | 36 | 0  | 15.78  | 15.96  | 16.15 | 16.30   | 16.14  | 16.8                | 0        |
| 15              | 256QAM | 36 | 20 | 15.92  | 16.14  | 16.30 | 16.25   | 16.27  |                     |          |
| 15              | 256QAM | 36 | 39 | 15.77  | 16.14  | 16.13 | 16.24   | 16.24  |                     |          |
| 15              | 256QAM | 75 | 0  | 15.93  | 16.04  | 16.27 | 16.21   | 16.27  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 17.3                | 0        |
| 10              | QPSK   | 1  | 0  | 16.05  | 16.07  | 16.28 | 16.37   | 16.35  |                     |          |
| 10              | QPSK   | 1  | 25 | 16.16  | 16.50  | 16.45 | 16.58   | 16.55  |                     |          |
| 10              | QPSK   | 1  | 49 | 16.16  | 16.18  | 16.37 | 16.32   | 16.35  | 17.3                | 0        |
| 10              | QPSK   | 25 | 0  | 16.22  | 16.50  | 16.72 | 16.46   | 16.44  |                     |          |
| 10              | QPSK   | 25 | 12 | 16.38  | 16.59  | 16.79 | 16.62   | 16.56  |                     |          |
| 10              | QPSK   | 25 | 25 | 16.28  | 16.56  | 16.55 | 16.56   | 16.55  | 17.3                | 0        |
| 10              | QPSK   | 50 | 0  | 16.37  | 16.53  | 16.42 | 16.59   | 16.60  |                     |          |
| 10              | 16QAM  | 1  | 0  | 16.10  | 16.54  | 16.40 | 16.41   | 16.43  |                     |          |
| 10              | 16QAM  | 1  | 25 | 16.29  | 16.70  | 16.56 | 16.59   | 16.57  | 17.3                | 0        |
| 10              | 16QAM  | 1  | 49 | 16.25  | 16.46  | 16.41 | 16.44   | 16.31  |                     |          |
| 10              | 16QAM  | 25 | 0  | 16.27  | 16.42  | 16.41 | 16.45   | 16.50  |                     |          |
| 10              | 16QAM  | 25 | 12 | 16.34  | 16.79  | 16.54 | 16.60   | 16.60  | 17.3                | 0        |
| 10              | 16QAM  | 25 | 25 | 16.45  | 16.34  | 16.86 | 16.58   | 16.57  |                     |          |
| 10              | 16QAM  | 50 | 0  | 16.22  | 16.68  | 16.46 | 16.41   | 16.37  |                     |          |
| 10              | 64QAM  | 1  | 0  | 16.10  | 15.97  | 16.31 | 16.24   | 16.14  | 17.3                | 0        |
| 10              | 64QAM  | 1  | 25 | 16.09  | 16.54  | 16.20 | 16.15   | 16.50  |                     |          |
| 10              | 64QAM  | 1  | 49 | 15.95  | 16.21  | 16.20 | 16.17   | 16.27  |                     |          |
| 10              | 64QAM  | 25 | 0  | 16.32  | 16.20  | 16.45 | 16.40   | 16.59  | 17.3                | 0        |
| 10              | 64QAM  | 25 | 12 | 16.33  | 16.34  | 16.60 | 16.56   | 16.60  |                     |          |
| 10              | 64QAM  | 25 | 25 | 16.56  | 16.66  | 16.62 | 16.59   | 16.65  |                     |          |
| 10              | 64QAM  | 50 | 0  | 16.37  | 16.34  | 16.50 | 16.45   | 16.55  | 16.8                | 0        |
| 10              | 256QAM | 1  | 0  | 15.80  | 15.90  | 16.04 | 15.85   | 15.62  |                     |          |
| 10              | 256QAM | 1  | 25 | 15.70  | 15.96  | 16.28 | 16.21   | 16.21  |                     |          |
| 10              | 256QAM | 1  | 49 | 15.67  | 16.01  | 16.04 | 15.65   | 16.06  | 16.8                | 0        |
| 10              | 256QAM | 25 | 0  | 15.73  | 15.91  | 16.15 | 16.23   | 16.09  |                     |          |
| 10              | 256QAM | 25 | 12 | 15.90  | 16.05  | 16.25 | 16.22   | 16.27  |                     |          |
| 10              | 256QAM | 25 | 25 | 15.68  | 16.06  | 16.09 | 16.16   | 16.23  | 16.8                | 0        |
| 10              | 256QAM | 50 | 0  | 15.85  | 15.98  | 16.19 | 16.13   | 16.23  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 16.24  | 16.57  | 16.40 | 16.57   | 16.51  | 17.3                | 0        |
| 5               | QPSK   | 1  | 12 | 16.15  | 16.62  | 16.46 | 16.47   | 16.44  |                     |          |
| 5               | QPSK   | 1  | 24 | 16.18  | 16.53  | 16.41 | 16.50   | 16.38  |                     |          |
| 5               | QPSK   | 12 | 0  | 16.26  | 16.50  | 16.53 | 16.57   | 16.50  | 17.3                | 0        |
| 5               | QPSK   | 12 | 7  | 16.35  | 16.71  | 16.53 | 16.64   | 16.70  |                     |          |
| 5               | QPSK   | 12 | 13 | 16.23  | 16.65  | 16.54 | 16.61   | 16.60  |                     |          |
| 5               | QPSK   | 25 | 0  | 16.28  | 16.60  | 16.48 | 16.58   | 16.52  | 17.3                | 0        |
| 5               | 16QAM  | 1  | 0  | 16.23  | 16.67  | 16.61 | 16.56   | 16.66  |                     |          |
| 5               | 16QAM  | 1  | 12 | 16.63  | 16.88  | 16.99 | 16.71   | 16.71  |                     |          |
| 5               | 16QAM  | 1  | 24 | 16.31  | 16.65  | 16.70 | 16.73   | 16.56  | 17.3                | 0        |
| 5               | 16QAM  | 12 | 0  | 16.32  | 16.55  | 16.47 | 16.49   | 16.53  |                     |          |
| 5               | 16QAM  | 12 | 7  | 16.31  | 16.66  | 16.58 | 16.50   | 16.62  |                     |          |
| 5               | 16QAM  | 12 | 13 | 16.28  | 16.64  | 16.56 | 16.62   | 16.56  | 17.3                | 0        |
| 5               | 16QAM  | 25 | 0  | 16.29  | 16.70  | 16.56 | 16.65   | 16.52  |                     |          |
| 5               | 64QAM  | 1  | 0  | 16.15  | 16.50  | 16.21 | 16.50   | 16.33  |                     |          |
| 5               | 64QAM  | 1  | 12 | 16.19  | 16.61  | 16.24 | 16.61   | 16.43  | 17.3                | 0        |
| 5               | 64QAM  | 1  | 24 | 16.19  | 16.57  | 16.30 | 16.55   | 16.40  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 16.27 | 16.66 | 16.63 | 16.69 | 16.59 | 17.3 | 0 |
| 5 | 64QAM  | 12 | 7  | 16.36 | 16.75 | 16.61 | 16.66 | 16.66 |      |   |
| 5 | 64QAM  | 12 | 13 | 16.36 | 16.74 | 16.62 | 16.69 | 16.62 |      |   |
| 5 | 64QAM  | 25 | 0  | 16.37 | 16.68 | 16.60 | 16.62 | 16.63 |      |   |
| 5 | 256QAM | 1  | 0  | 15.72 | 15.83 | 15.97 | 15.80 | 15.52 | 16.8 | 0 |
| 5 | 256QAM | 1  | 12 | 15.65 | 15.89 | 16.18 | 16.12 | 16.20 |      |   |
| 5 | 256QAM | 1  | 24 | 15.63 | 15.93 | 16.02 | 15.65 | 16.06 |      |   |
| 5 | 256QAM | 12 | 0  | 15.63 | 15.84 | 16.06 | 16.19 | 16.09 |      |   |
| 5 | 256QAM | 12 | 7  | 15.81 | 16.00 | 16.25 | 16.15 | 16.17 | 16.8 | 0 |
| 5 | 256QAM | 12 | 13 | 15.61 | 15.99 | 16.03 | 16.13 | 16.13 |      |   |
| 5 | 256QAM | 25 | 0  | 15.84 | 15.90 | 16.13 | 16.11 | 16.20 |      |   |



## &lt;LTE Band 41 PC2&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 18.3                | 0        |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 17.57                 | 17.75                        | 17.65                    | 17.75                         | 17.52                  |                     |          |
| 20              | QPSK       | 1       | 49        | 17.51                 | 17.86                        | 18.16                    | 18.05                         | 17.98                  | 18.3                | 0        |
| 20              | QPSK       | 1       | 99        | 17.55                 | 17.87                        | 17.79                    | 17.61                         | 17.98                  |                     |          |
| 20              | QPSK       | 50      | 0         | 17.71                 | 17.82                        | 18.02                    | 18.06                         | 18.02                  |                     |          |
| 20              | QPSK       | 50      | 24        | 17.73                 | 17.97                        | 18.09                    | 18.06                         | 18.05                  | 18.3                | 0        |
| 20              | QPSK       | 50      | 50        | 17.71                 | 18.09                        | 18.07                    | 18.07                         | 18.08                  |                     |          |
| 20              | QPSK       | 100     | 0         | 17.82                 | 17.91                        | 18.08                    | 18.05                         | 18.05                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.82                 | 18.11                        | 17.87                    | 18.11                         | 17.85                  | 18.3                | 0        |
| 20              | 16QAM      | 1       | 49        | 17.85                 | 18.08                        | 18.05                    | 18.11                         | 18.10                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.86                 | 18.00                        | 18.12                    | 17.89                         | 18.00                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 17.69                 | 17.80                        | 18.10                    | 18.03                         | 17.93                  | 18.3                | 0        |
| 20              | 16QAM      | 50      | 24        | 17.80                 | 18.04                        | 18.07                    | 18.07                         | 17.99                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.63                 | 18.05                        | 18.00                    | 18.15                         | 18.03                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 17.70                 | 17.92                        | 18.05                    | 18.03                         | 18.10                  | 18.3                | 0        |
| 20              | 64QAM      | 1       | 0         | 17.77                 | 17.84                        | 17.33                    | 17.62                         | 17.44                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 17.75                 | 17.94                        | 17.84                    | 17.87                         | 17.90                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 17.78                 | 17.91                        | 17.61                    | 17.42                         | 17.84                  | 18.3                | 0        |
| 20              | 64QAM      | 50      | 0         | 17.66                 | 17.82                        | 17.69                    | 17.74                         | 17.65                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 17.68                 | 17.92                        | 17.89                    | 17.66                         | 17.87                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 17.74                 | 17.91                        | 17.87                    | 17.65                         | 17.90                  | 18.3                | 0        |
| 20              | 64QAM      | 100     | 0         | 17.63                 | 17.83                        | 17.73                    | 17.74                         | 17.73                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.59                 | 17.72                        | 17.61                    | 17.78                         | 17.53                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 17.49                 | 17.87                        | 18.08                    | 18.10                         | 17.95                  | 18.3                | 0        |
| 20              | 256QAM     | 1       | 99        | 17.56                 | 17.90                        | 17.79                    | 17.62                         | 18.01                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.67                 | 17.77                        | 17.98                    | 18.02                         | 18.07                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 17.73                 | 17.95                        | 18.04                    | 18.04                         | 18.06                  | 18.3                | 0        |
| 20              | 256QAM     | 50      | 50        | 17.69                 | 18.07                        | 18.04                    | 18.12                         | 18.05                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.78                 | 17.94                        | 18.06                    | 18.02                         | 18.09                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | 18.3                | 0        |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 17.32                 | 17.44                        | 17.37                    | 17.64                         | 17.50                  |                     |          |
| 15              | QPSK       | 1       | 37        | 17.48                 | 17.75                        | 17.67                    | 17.66                         | 17.71                  | 18.3                | 0        |
| 15              | QPSK       | 1       | 74        | 17.44                 | 17.47                        | 17.54                    | 17.45                         | 17.62                  |                     |          |
| 15              | QPSK       | 36      | 0         | 17.36                 | 17.73                        | 17.68                    | 17.72                         | 17.73                  |                     |          |
| 15              | QPSK       | 36      | 20        | 17.60                 | 17.83                        | 17.75                    | 17.80                         | 17.88                  | 18.3                | 0        |
| 15              | QPSK       | 36      | 39        | 17.51                 | 17.81                        | 17.79                    | 17.77                         | 17.88                  |                     |          |
| 15              | QPSK       | 75      | 0         | 17.53                 | 17.73                        | 17.58                    | 17.77                         | 17.78                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.75                 | 17.78                        | 17.73                    | 17.84                         | 17.68                  | 18.3                | 0        |
| 15              | 16QAM      | 1       | 37        | 17.63                 | 17.91                        | 17.85                    | 17.96                         | 18.04                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.76                 | 17.80                        | 17.72                    | 17.81                         | 17.99                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 17.56                 | 17.59                        | 17.66                    | 17.72                         | 17.61                  | 18.3                | 0        |
| 15              | 16QAM      | 36      | 20        | 17.59                 | 17.85                        | 17.70                    | 17.80                         | 17.79                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 17.55                 | 17.77                        | 17.81                    | 17.81                         | 17.83                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 17.49                 | 17.85                        | 17.69                    | 17.79                         | 17.88                  | 18.3                | 0        |
| 15              | 64QAM      | 1       | 0         | 17.57                 | 17.64                        | 17.44                    | 17.74                         | 17.65                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 17.56                 | 17.91                        | 17.77                    | 17.84                         | 17.89                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 17.68                 | 17.61                        | 17.72                    | 17.72                         | 17.90                  | 18.3                | 0        |
| 15              | 64QAM      | 36      | 0         | 17.55                 | 17.77                        | 17.60                    | 17.80                         | 17.65                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 17.61                 | 17.81                        | 17.74                    | 17.87                         | 17.93                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 17.59                 | 17.86                        | 17.83                    | 17.82                         | 17.90                  | 18.3                | 0        |
| 15              | 64QAM      | 75      | 0         | 17.59                 | 17.78                        | 17.63                    | 17.75                         | 17.84                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 17.60  | 17.76  | 17.56 | 17.77   | 17.56  | 18.3                | 0        |
| 15              | 256QAM | 1  | 37 | 17.46  | 17.89  | 18.06 | 18.09   | 17.90  |                     |          |
| 15              | 256QAM | 1  | 74 | 17.53  | 17.86  | 17.78 | 17.63   | 18.00  |                     |          |
| 15              | 256QAM | 36 | 0  | 17.70  | 17.79  | 17.93 | 18.04   | 18.06  | 18.3                | 0        |
| 15              | 256QAM | 36 | 20 | 17.77  | 17.94  | 18.09 | 18.02   | 18.09  |                     |          |
| 15              | 256QAM | 36 | 39 | 17.68  | 18.10  | 17.99 | 18.05   | 18.04  |                     |          |
| 15              | 256QAM | 75 | 0  | 17.81  | 17.89  | 18.08 | 18.05   | 18.09  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 18.3                | 0        |
| 10              | QPSK   | 1  | 0  | 17.04  | 17.17  | 17.17 | 17.2    | 17.18  |                     |          |
| 10              | QPSK   | 1  | 25 | 17.04  | 17.48  | 17.34 | 17.48   | 17.38  |                     |          |
| 10              | QPSK   | 1  | 49 | 17.16  | 17.28  | 17.21 | 17.26   | 17.24  | 18.3                | 0        |
| 10              | QPSK   | 25 | 0  | 17.27  | 17.42  | 17.52 | 17.5    | 17.48  |                     |          |
| 10              | QPSK   | 25 | 12 | 17.3   | 17.61  | 17.44 | 17.57   | 17.54  |                     |          |
| 10              | QPSK   | 25 | 25 | 17.25  | 17.57  | 17.4  | 17.54   | 17.49  | 18.3                | 0        |
| 10              | QPSK   | 50 | 0  | 17.22  | 17.6   | 17.46 | 17.58   | 17.44  |                     |          |
| 10              | 16QAM  | 1  | 0  | 17.4   | 17.58  | 17.45 | 17.54   | 17.47  |                     |          |
| 10              | 16QAM  | 1  | 25 | 17.49  | 17.78  | 17.66 | 17.8    | 17.7   | 18.3                | 0        |
| 10              | 16QAM  | 1  | 49 | 17.49  | 17.53  | 17.66 | 17.52   | 17.44  |                     |          |
| 10              | 16QAM  | 25 | 0  | 17.24  | 17.55  | 17.53 | 17.59   | 17.54  |                     |          |
| 10              | 16QAM  | 25 | 12 | 17.37  | 17.64  | 17.63 | 17.62   | 17.55  | 18.3                | 0        |
| 10              | 16QAM  | 25 | 25 | 17.3   | 17.69  | 17.62 | 17.65   | 17.58  |                     |          |
| 10              | 16QAM  | 50 | 0  | 17.34  | 17.63  | 17.49 | 17.64   | 17.51  |                     |          |
| 10              | 64QAM  | 1  | 0  | 17.55  | 17.67  | 17.20 | 17.49   | 17.73  | 18.3                | 0        |
| 10              | 64QAM  | 1  | 25 | 17.51  | 17.83  | 17.53 | 17.99   | 17.94  |                     |          |
| 10              | 64QAM  | 1  | 49 | 17.35  | 17.47  | 17.35 | 17.40   | 17.47  |                     |          |
| 10              | 64QAM  | 25 | 0  | 17.29  | 17.53  | 17.42 | 17.57   | 17.56  | 18.3                | 0        |
| 10              | 64QAM  | 25 | 12 | 17.31  | 17.68  | 17.42 | 17.66   | 17.56  |                     |          |
| 10              | 64QAM  | 25 | 25 | 17.40  | 17.48  | 17.49 | 17.59   | 17.54  |                     |          |
| 10              | 64QAM  | 50 | 0  | 17.23  | 17.60  | 17.35 | 17.59   | 17.52  | 18.3                | 0        |
| 10              | 256QAM | 1  | 0  | 17.56  | 17.76  | 17.58 | 17.82   | 17.55  |                     |          |
| 10              | 256QAM | 1  | 25 | 17.45  | 17.91  | 18.10 | 18.10   | 17.87  |                     |          |
| 10              | 256QAM | 1  | 49 | 17.52  | 17.85  | 17.73 | 17.58   | 17.95  | 18.3                | 0        |
| 10              | 256QAM | 25 | 0  | 17.74  | 17.81  | 17.93 | 18.07   | 18.05  |                     |          |
| 10              | 256QAM | 25 | 12 | 17.73  | 17.94  | 18.13 | 17.98   | 18.06  |                     |          |
| 10              | 256QAM | 25 | 25 | 17.68  | 18.09  | 17.98 | 18.01   | 18.09  | 18.3                | 0        |
| 10              | 256QAM | 50 | 0  | 17.76  | 17.91  | 18.03 | 18.02   | 18.07  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 17.11  | 17.45  | 17.36 | 17.37   | 17.31  | 18.3                | 0        |
| 5               | QPSK   | 1  | 12 | 17.09  | 17.56  | 17.28 | 17.46   | 17.37  |                     |          |
| 5               | QPSK   | 1  | 24 | 17.11  | 17.49  | 17.38 | 17.44   | 17.42  |                     |          |
| 5               | QPSK   | 12 | 0  | 17.32  | 17.61  | 17.50 | 17.57   | 17.43  | 18.3                | 0        |
| 5               | QPSK   | 12 | 7  | 17.33  | 17.71  | 17.49 | 17.54   | 17.55  |                     |          |
| 5               | QPSK   | 12 | 13 | 17.24  | 17.66  | 17.57 | 17.62   | 17.60  |                     |          |
| 5               | QPSK   | 25 | 0  | 17.26  | 17.65  | 17.51 | 17.56   | 17.65  | 18.3                | 0        |
| 5               | 16QAM  | 1  | 0  | 17.45  | 17.65  | 17.74 | 17.74   | 17.59  |                     |          |
| 5               | 16QAM  | 1  | 12 | 17.40  | 17.84  | 17.78 | 17.74   | 17.63  |                     |          |
| 5               | 16QAM  | 1  | 24 | 17.49  | 17.83  | 17.80 | 17.73   | 17.66  | 18.3                | 0        |
| 5               | 16QAM  | 12 | 0  | 17.28  | 17.65  | 17.83 | 17.67   | 17.60  |                     |          |
| 5               | 16QAM  | 12 | 7  | 17.37  | 17.67  | 17.57 | 17.70   | 17.62  |                     |          |
| 5               | 16QAM  | 12 | 13 | 17.32  | 17.66  | 17.59 | 17.61   | 17.57  | 18.3                | 0        |
| 5               | 16QAM  | 25 | 0  | 17.32  | 17.66  | 17.61 | 17.77   | 17.60  |                     |          |
| 5               | 64QAM  | 1  | 0  | 17.44  | 17.66  | 17.62 | 17.68   | 17.56  |                     |          |
| 5               | 64QAM  | 1  | 12 | 17.29  | 17.67  | 17.66 | 17.70   | 17.59  | 18.3                | 0        |
| 5               | 64QAM  | 1  | 24 | 17.40  | 17.59  | 17.64 | 17.67   | 17.49  |                     |          |



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|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 17.31 | 17.59 | 17.51 | 17.62 | 17.46 | 18.3 | 0 |
| 5 | 64QAM  | 12 | 7  | 17.33 | 17.67 | 17.52 | 17.65 | 17.58 |      |   |
| 5 | 64QAM  | 12 | 13 | 17.31 | 17.65 | 17.53 | 17.62 | 17.52 |      |   |
| 5 | 64QAM  | 25 | 0  | 17.30 | 17.58 | 17.49 | 17.60 | 17.53 |      |   |
| 5 | 256QAM | 1  | 0  | 17.55 | 17.74 | 17.53 | 17.80 | 17.52 | 18.3 | 0 |
| 5 | 256QAM | 1  | 12 | 17.46 | 17.94 | 18.05 | 18.06 | 17.89 |      |   |
| 5 | 256QAM | 1  | 24 | 17.51 | 17.87 | 17.75 | 17.61 | 17.93 |      |   |
| 5 | 256QAM | 12 | 0  | 17.79 | 17.79 | 17.90 | 18.05 | 18.04 | 18.3 | 0 |
| 5 | 256QAM | 12 | 7  | 17.75 | 17.96 | 18.09 | 18.02 | 18.05 |      |   |
| 5 | 256QAM | 12 | 13 | 17.66 | 18.04 | 18.03 | 18.04 | 18.04 |      |   |
| 5 | 256QAM | 25 | 0  | 17.72 | 17.91 | 18.07 | 18.00 | 18.07 |      |   |



## &lt;LTE Band 48&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | 14.3                | 0        |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20              | QPSK       | 1       | 0         | 13.56                 | 13.60                        | 13.76                         | 13.79                  | 14.3                | 0        |
| 20              | QPSK       | 1       | 49        | 13.67                 | 14.09                        | 13.80                         | 14.04                  |                     |          |
| 20              | QPSK       | 1       | 99        | 13.65                 | 13.79                        | 13.51                         | 13.87                  |                     |          |
| 20              | QPSK       | 50      | 0         | 13.38                 | 13.82                        | 13.86                         | 14.04                  | 14.3                | 0        |
| 20              | QPSK       | 50      | 24        | 13.52                 | 14.05                        | 13.95                         | 14.00                  |                     |          |
| 20              | QPSK       | 50      | 50        | 13.45                 | 14.00                        | 13.82                         | 14.03                  |                     |          |
| 20              | QPSK       | 100     | 0         | 13.48                 | 14.06                        | 13.85                         | 13.78                  | 14.3                | 0        |
| 20              | 16QAM      | 1       | 0         | 13.68                 | 13.30                        | 13.74                         | 13.57                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 13.81                 | 13.67                        | 13.85                         | 13.62                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 13.46                 | 13.62                        | 13.66                         | 13.69                  | 14.3                | 0        |
| 20              | 16QAM      | 50      | 0         | 13.61                 | 13.39                        | 13.71                         | 13.55                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 13.68                 | 13.60                        | 13.81                         | 13.63                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 13.54                 | 13.55                        | 13.74                         | 13.60                  | 14.3                | 0        |
| 20              | 16QAM      | 100     | 0         | 13.62                 | 13.55                        | 13.78                         | 13.57                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 13.54                 | 13.40                        | 13.54                         | 13.46                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 13.76                 | 13.65                        | 13.87                         | 13.70                  | 14.3                | 0        |
| 20              | 64QAM      | 1       | 99        | 13.48                 | 13.48                        | 13.83                         | 13.57                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 13.57                 | 13.44                        | 13.70                         | 13.51                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 13.71                 | 13.56                        | 13.87                         | 13.59                  | 14.3                | 0        |
| 20              | 64QAM      | 50      | 50        | 13.56                 | 13.50                        | 13.81                         | 13.55                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 13.56                 | 13.51                        | 13.70                         | 13.48                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 13.47                 | 13.58                        | 13.66                         | 13.70                  | 14.3                | 0        |
| 20              | 256QAM     | 1       | 49        | 13.60                 | 14.00                        | 13.75                         | 14.00                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 13.56                 | 13.74                        | 13.47                         | 13.82                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 13.31                 | 13.80                        | 13.83                         | 14.00                  | 14.3                | 0        |
| 20              | 256QAM     | 50      | 24        | 13.44                 | 13.99                        | 13.88                         | 13.94                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 13.39                 | 13.96                        | 13.81                         | 13.94                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 13.43                 | 13.97                        | 13.79                         | 13.74                  | 14.3                | 0        |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |          |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 0         | 13.51                 | 13.54                        | 13.75                         | 13.76                  | 14.3                | 0        |
| 15              | QPSK       | 1       | 37        | 13.60                 | 14.00                        | 13.80                         | 14.00                  |                     |          |
| 15              | QPSK       | 1       | 74        | 13.57                 | 13.69                        | 13.51                         | 13.85                  |                     |          |
| 15              | QPSK       | 36      | 0         | 13.28                 | 13.79                        | 13.78                         | 13.96                  | 14.3                | 0        |
| 15              | QPSK       | 36      | 20        | 13.44                 | 13.99                        | 13.85                         | 13.92                  |                     |          |
| 15              | QPSK       | 36      | 39        | 13.36                 | 13.99                        | 13.80                         | 14.00                  |                     |          |
| 15              | QPSK       | 75      | 0         | 13.44                 | 13.97                        | 13.78                         | 13.74                  | 14.3                | 0        |
| 15              | 16QAM      | 1       | 0         | 13.66                 | 13.21                        | 13.73                         | 13.55                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 13.77                 | 13.57                        | 13.77                         | 13.59                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 13.36                 | 13.57                        | 13.65                         | 13.65                  | 14.3                | 0        |
| 15              | 16QAM      | 36      | 0         | 13.58                 | 13.33                        | 13.70                         | 13.54                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 13.68                 | 13.50                        | 13.74                         | 13.58                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 13.53                 | 13.54                        | 13.67                         | 13.55                  | 14.3                | 0        |
| 15              | 16QAM      | 75      | 0         | 13.59                 | 13.46                        | 13.73                         | 13.55                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 13.50                 | 13.31                        | 13.46                         | 13.45                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 13.70                 | 13.55                        | 13.77                         | 13.65                  | 14.3                | 0        |
| 15              | 64QAM      | 1       | 74        | 13.48                 | 13.39                        | 13.76                         | 13.57                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 13.56                 | 13.42                        | 13.62                         | 13.48                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 13.70                 | 13.54                        | 13.83                         | 13.57                  | 14.3                | 0        |
| 15              | 64QAM      | 36      | 39        | 13.53                 | 13.50                        | 13.80                         | 13.49                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 13.53                 | 13.41                        | 13.61                         | 13.42                  |                     |          |



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|                 |        |    |    |        |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 0  | 13.52  | 13.62  | 13.71  | 13.67  | 14.3                   | 0           |
| 15              | 256QAM | 1  | 37 | 13.57  | 13.97  | 13.70  | 14.00  |                        |             |
| 15              | 256QAM | 1  | 74 | 13.52  | 13.72  | 13.49  | 13.84  |                        |             |
| 15              | 256QAM | 36 | 0  | 13.28  | 13.79  | 13.79  | 14.00  | 14.3                   | 0           |
| 15              | 256QAM | 36 | 20 | 13.43  | 14.00  | 13.89  | 13.96  |                        |             |
| 15              | 256QAM | 36 | 39 | 13.44  | 13.92  | 13.77  | 13.99  |                        |             |
| 15              | 256QAM | 75 | 0  | 13.46  | 13.95  | 13.84  | 13.70  |                        |             |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |             |
| 10              | QPSK   | 1  | 0  | 13.47  | 13.56  | 13.69  | 13.71  | 14.3                   | 0           |
| 10              | QPSK   | 1  | 25 | 13.64  | 14.02  | 13.80  | 14.04  |                        |             |
| 10              | QPSK   | 1  | 49 | 13.60  | 13.77  | 13.42  | 13.82  |                        |             |
| 10              | QPSK   | 25 | 0  | 13.28  | 13.75  | 13.79  | 13.96  | 14.3                   | 0           |
| 10              | QPSK   | 25 | 12 | 13.45  | 13.97  | 13.95  | 13.94  |                        |             |
| 10              | QPSK   | 25 | 25 | 13.43  | 13.93  | 13.72  | 14.02  |                        |             |
| 10              | QPSK   | 50 | 0  | 13.42  | 14.00  | 13.75  | 13.71  |                        |             |
| 10              | 16QAM  | 1  | 0  | 13.61  | 13.26  | 13.64  | 13.51  | 14.3                   | 0           |
| 10              | 16QAM  | 1  | 25 | 13.72  | 13.59  | 13.80  | 13.60  |                        |             |
| 10              | 16QAM  | 1  | 49 | 13.40  | 13.62  | 13.61  | 13.60  |                        |             |
| 10              | 16QAM  | 25 | 0  | 13.51  | 13.36  | 13.65  | 13.55  | 14.3                   | 0           |
| 10              | 16QAM  | 25 | 12 | 13.59  | 13.55  | 13.71  | 13.58  |                        |             |
| 10              | 16QAM  | 25 | 25 | 13.45  | 13.45  | 13.69  | 13.57  |                        |             |
| 10              | 16QAM  | 50 | 0  | 13.62  | 13.53  | 13.74  | 13.54  |                        |             |
| 10              | 64QAM  | 1  | 0  | 13.45  | 13.37  | 13.50  | 13.36  | 14.3                   | 0           |
| 10              | 64QAM  | 1  | 25 | 13.74  | 13.65  | 13.86  | 13.67  |                        |             |
| 10              | 64QAM  | 1  | 49 | 13.46  | 13.41  | 13.73  | 13.52  |                        |             |
| 10              | 64QAM  | 25 | 0  | 13.50  | 13.42  | 13.61  | 13.50  | 14.3                   | 0           |
| 10              | 64QAM  | 25 | 12 | 13.67  | 13.47  | 13.78  | 13.57  |                        |             |
| 10              | 64QAM  | 25 | 25 | 13.49  | 13.40  | 13.78  | 13.49  |                        |             |
| 10              | 64QAM  | 50 | 0  | 13.46  | 13.44  | 13.60  | 13.44  |                        |             |
| 10              | 256QAM | 1  | 0  | 13.50  | 13.61  | 13.71  | 13.70  | 14.3                   | 0           |
| 10              | 256QAM | 1  | 25 | 13.55  | 13.97  | 13.70  | 13.98  |                        |             |
| 10              | 256QAM | 1  | 49 | 13.54  | 13.72  | 13.45  | 13.83  |                        |             |
| 10              | 256QAM | 25 | 0  | 13.28  | 13.74  | 13.80  | 13.97  | 14.3                   | 0           |
| 10              | 256QAM | 25 | 12 | 13.40  | 13.99  | 13.90  | 13.98  |                        |             |
| 10              | 256QAM | 25 | 25 | 13.48  | 13.90  | 13.74  | 14.00  |                        |             |
| 10              | 256QAM | 50 | 0  | 13.43  | 13.95  | 13.87  | 13.67  |                        |             |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 13.54  | 13.60  | 13.66  | 13.78  | 14.3                   | 0           |
| 5               | QPSK   | 1  | 12 | 13.65  | 14.08  | 13.79  | 14.00  |                        |             |
| 5               | QPSK   | 1  | 24 | 13.65  | 13.76  | 13.48  | 13.82  |                        |             |
| 5               | QPSK   | 12 | 0  | 13.37  | 13.81  | 13.79  | 14.01  | 14.3                   | 0           |
| 5               | QPSK   | 12 | 7  | 13.50  | 13.95  | 13.91  | 13.90  |                        |             |
| 5               | QPSK   | 12 | 13 | 13.42  | 13.99  | 13.74  | 13.93  |                        |             |
| 5               | QPSK   | 25 | 0  | 13.38  | 14.04  | 13.82  | 13.69  |                        |             |
| 5               | 16QAM  | 1  | 0  | 13.60  | 13.22  | 13.72  | 13.51  | 14.3                   | 0           |
| 5               | 16QAM  | 1  | 12 | 13.76  | 13.66  | 13.75  | 13.61  |                        |             |
| 5               | 16QAM  | 1  | 24 | 13.42  | 13.59  | 13.60  | 13.62  |                        |             |
| 5               | 16QAM  | 12 | 0  | 13.53  | 13.34  | 13.63  | 13.49  | 14.3                   | 0           |
| 5               | 16QAM  | 12 | 7  | 13.58  | 13.55  | 13.73  | 13.59  |                        |             |
| 5               | 16QAM  | 12 | 13 | 13.53  | 13.48  | 13.73  | 13.58  |                        |             |
| 5               | 16QAM  | 25 | 0  | 13.52  | 13.45  | 13.72  | 13.52  |                        |             |
| 5               | 64QAM  | 1  | 0  | 13.53  | 13.36  | 13.51  | 13.38  | 14.3                   | 0           |
| 5               | 64QAM  | 1  | 12 | 13.69  | 13.55  | 13.78  | 13.70  |                        |             |
| 5               | 64QAM  | 1  | 24 | 13.40  | 13.44  | 13.78  | 13.49  |                        |             |



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|   |        |    |    |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 13.54 | 13.37 | 13.64 | 13.46 | 14.3 | 0 |
| 5 | 64QAM  | 12 | 7  | 13.65 | 13.50 | 13.84 | 13.50 |      |   |
| 5 | 64QAM  | 12 | 13 | 13.54 | 13.45 | 13.78 | 13.45 |      |   |
| 5 | 64QAM  | 25 | 0  | 13.46 | 13.51 | 13.64 | 13.44 |      |   |
| 5 | 256QAM | 1  | 0  | 13.49 | 13.56 | 13.66 | 13.68 | 14.3 | 0 |
| 5 | 256QAM | 1  | 12 | 13.55 | 13.97 | 13.70 | 13.98 |      |   |
| 5 | 256QAM | 1  | 24 | 13.54 | 13.73 | 13.50 | 13.84 |      |   |
| 5 | 256QAM | 12 | 0  | 13.33 | 13.78 | 13.80 | 13.99 | 14.3 | 0 |
| 5 | 256QAM | 12 | 7  | 13.43 | 13.95 | 13.90 | 13.98 |      |   |
| 5 | 256QAM | 12 | 13 | 13.51 | 13.86 | 13.71 | 14.00 |      |   |
| 5 | 256QAM | 25 | 0  | 13.45 | 13.95 | 13.89 | 13.67 |      |   |

UAT Reduced Power Mode for Hotspot On<LTE Band 38>

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 17.24                 | 17.22                    | 17.25                  |                     |          |
| 20              | QPSK       | 1       | 49        | 17.29                 | 17.27                    | 17.28                  | 17.8                | 0        |
| 20              | QPSK       | 1       | 99        | 17.23                 | 17.18                    | 17.27                  |                     |          |
| 20              | QPSK       | 50      | 0         | 17.09                 | 17.05                    | 16.94                  |                     |          |
| 20              | QPSK       | 50      | 24        | 17.12                 | 17.06                    | 16.95                  | 17.8                | 0        |
| 20              | QPSK       | 50      | 50        | 17.10                 | 16.96                    | 16.93                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.97                 | 16.96                    | 16.89                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.26                 | 17.22                    | 17.22                  | 17.8                | 0        |
| 20              | 16QAM      | 1       | 49        | 17.22                 | 17.23                    | 17.27                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.28                 | 17.28                    | 17.20                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 17.05                 | 17.20                    | 17.05                  | 17.8                | 0        |
| 20              | 16QAM      | 50      | 24        | 17.14                 | 17.20                    | 17.18                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.15                 | 17.10                    | 16.97                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 16.96                 | 17.10                    | 16.93                  | 17.8                | 0        |
| 20              | 64QAM      | 1       | 0         | 16.84                 | 16.72                    | 16.88                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 16.94                 | 16.77                    | 16.75                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 17.09                 | 16.73                    | 16.65                  | 17.8                | 0        |
| 20              | 64QAM      | 50      | 0         | 16.57                 | 16.60                    | 16.59                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 16.75                 | 16.63                    | 16.61                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 16.71                 | 16.46                    | 16.45                  | 17.8                | 0        |
| 20              | 64QAM      | 100     | 0         | 16.71                 | 16.61                    | 16.62                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.34                 | 16.22                    | 16.28                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 16.24                 | 16.27                    | 16.25                  | 16.8                | 0        |
| 20              | 256QAM     | 1       | 99        | 16.29                 | 16.23                    | 16.15                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.07                 | 16.10                    | 16.09                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 16.25                 | 16.13                    | 16.11                  | 16.8                | 0        |
| 20              | 256QAM     | 50      | 50        | 16.21                 | 15.96                    | 15.95                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 16.21                 | 16.11                    | 16.12                  |                     |          |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 17.13                 | 17.18                    | 17.08                  |                     |          |
| 15              | QPSK       | 1       | 37        | 17.28                 | 17.13                    | 17.26                  | 17.8                | 0        |
| 15              | QPSK       | 1       | 74        | 17.16                 | 17.02                    | 17.15                  |                     |          |
| 15              | QPSK       | 36      | 0         | 16.92                 | 16.99                    | 16.90                  |                     |          |
| 15              | QPSK       | 36      | 20        | 17.08                 | 17.04                    | 16.82                  | 17.8                | 0        |
| 15              | QPSK       | 36      | 39        | 17.09                 | 16.86                    | 16.92                  |                     |          |
| 15              | QPSK       | 75      | 0         | 16.96                 | 16.76                    | 16.78                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.08                 | 17.13                    | 17.11                  | 17.8                | 0        |
| 15              | 16QAM      | 1       | 37        | 17.04                 | 17.12                    | 17.21                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.24                 | 17.17                    | 17.12                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 16.98                 | 17.14                    | 16.85                  | 17.8                | 0        |
| 15              | 16QAM      | 36      | 20        | 16.94                 | 17.19                    | 17.10                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 17.04                 | 16.98                    | 16.84                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 16.82                 | 17.02                    | 16.84                  | 17.8                | 0        |
| 15              | 64QAM      | 1       | 0         | 16.65                 | 16.63                    | 16.77                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 16.83                 | 16.63                    | 16.68                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 16.90                 | 16.53                    | 16.60                  | 17.8                | 0        |
| 15              | 64QAM      | 36      | 0         | 16.46                 | 16.59                    | 16.54                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 16.64                 | 16.56                    | 16.57                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 16.56                 | 16.26                    | 16.43                  |                     |          |



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|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 16.66  | 16.48 | 16.42  |                        |             |
| 15              | 256QAM | 1  | 0  | 16.32  | 16.15 | 16.21  | 16.8                   | 0           |
| 15              | 256QAM | 1  | 37 | 16.15  | 16.20 | 16.15  |                        |             |
| 15              | 256QAM | 1  | 74 | 16.28  | 16.21 | 16.07  |                        |             |
| 15              | 256QAM | 36 | 0  | 16.07  | 16.02 | 16.06  | 16.8                   | 0           |
| 15              | 256QAM | 36 | 20 | 16.20  | 16.10 | 16.11  |                        |             |
| 15              | 256QAM | 36 | 39 | 16.19  | 15.92 | 15.92  |                        |             |
| 15              | 256QAM | 75 | 0  | 16.11  | 16.03 | 16.06  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 17.15  | 17.07 | 17.09  | 17.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 17.21  | 17.19 | 17.21  |                        |             |
| 10              | QPSK   | 1  | 49 | 17.07  | 17.09 | 17.15  |                        |             |
| 10              | QPSK   | 25 | 0  | 17.00  | 16.99 | 16.88  | 17.8                   | 0           |
| 10              | QPSK   | 25 | 12 | 16.95  | 16.94 | 16.89  |                        |             |
| 10              | QPSK   | 25 | 25 | 16.95  | 16.79 | 16.79  |                        |             |
| 10              | QPSK   | 50 | 0  | 16.77  | 16.90 | 16.82  |                        |             |
| 10              | 16QAM  | 1  | 0  | 17.20  | 17.11 | 17.17  | 17.8                   | 0           |
| 10              | 16QAM  | 1  | 25 | 17.04  | 17.20 | 17.12  |                        |             |
| 10              | 16QAM  | 1  | 49 | 17.27  | 17.24 | 17.07  |                        |             |
| 10              | 16QAM  | 25 | 0  | 16.95  | 17.13 | 16.87  | 17.8                   | 0           |
| 10              | 16QAM  | 25 | 12 | 16.97  | 17.01 | 17.00  |                        |             |
| 10              | 16QAM  | 25 | 25 | 17.11  | 17.06 | 16.84  |                        |             |
| 10              | 16QAM  | 50 | 0  | 16.91  | 16.93 | 16.81  |                        |             |
| 10              | 64QAM  | 1  | 0  | 16.66  | 16.60 | 16.81  | 17.8                   | 0           |
| 10              | 64QAM  | 1  | 25 | 16.88  | 16.76 | 16.66  |                        |             |
| 10              | 64QAM  | 1  | 49 | 16.95  | 16.70 | 16.64  |                        |             |
| 10              | 64QAM  | 25 | 0  | 16.40  | 16.46 | 16.57  | 17.8                   | 0           |
| 10              | 64QAM  | 25 | 12 | 16.62  | 16.50 | 16.58  |                        |             |
| 10              | 64QAM  | 25 | 25 | 16.60  | 16.44 | 16.32  |                        |             |
| 10              | 64QAM  | 50 | 0  | 16.55  | 16.51 | 16.46  |                        |             |
| 10              | 256QAM | 1  | 0  | 16.22  | 16.14 | 16.13  | 16.8                   | 0           |
| 10              | 256QAM | 1  | 25 | 16.11  | 16.14 | 16.10  |                        |             |
| 10              | 256QAM | 1  | 49 | 16.20  | 16.19 | 15.99  |                        |             |
| 10              | 256QAM | 25 | 0  | 15.98  | 15.94 | 16.04  | 16.8                   | 0           |
| 10              | 256QAM | 25 | 12 | 16.17  | 16.02 | 16.07  |                        |             |
| 10              | 256QAM | 25 | 25 | 16.17  | 15.85 | 15.90  |                        |             |
| 10              | 256QAM | 50 | 0  | 16.03  | 16.03 | 15.97  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 17.18  | 17.09 | 17.11  | 17.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 17.12  | 17.20 | 17.19  |                        |             |
| 5               | QPSK   | 1  | 24 | 17.09  | 17.05 | 17.24  |                        |             |
| 5               | QPSK   | 12 | 0  | 17.00  | 16.97 | 16.88  | 17.8                   | 0           |
| 5               | QPSK   | 12 | 7  | 17.07  | 16.93 | 16.79  |                        |             |
| 5               | QPSK   | 12 | 13 | 17.04  | 16.91 | 16.80  |                        |             |
| 5               | QPSK   | 25 | 0  | 16.84  | 16.82 | 16.73  |                        |             |
| 5               | 16QAM  | 1  | 0  | 17.16  | 17.21 | 17.16  | 17.8                   | 0           |
| 5               | 16QAM  | 1  | 12 | 17.10  | 17.06 | 17.21  |                        |             |
| 5               | 16QAM  | 1  | 24 | 17.10  | 17.11 | 17.07  |                        |             |
| 5               | 16QAM  | 12 | 0  | 16.97  | 17.19 | 16.90  | 17.8                   | 0           |
| 5               | 16QAM  | 12 | 7  | 17.12  | 17.09 | 17.17  |                        |             |
| 5               | 16QAM  | 12 | 13 | 17.09  | 17.07 | 16.85  |                        |             |
| 5               | 16QAM  | 25 | 0  | 16.78  | 16.98 | 16.79  |                        |             |
| 5               | 64QAM  | 1  | 0  | 16.81  | 16.52 | 16.73  | 17.8                   | 0           |
| 5               | 64QAM  | 1  | 12 | 16.92  | 16.72 | 16.73  |                        |             |



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|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 1  | 24 | 16.94 | 16.53 | 16.61 |      |   |
| 5 | 64QAM  | 12 | 0  | 16.51 | 16.45 | 16.54 | 17.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 16.60 | 16.44 | 16.46 |      |   |
| 5 | 64QAM  | 12 | 13 | 16.63 | 16.43 | 16.31 |      |   |
| 5 | 64QAM  | 25 | 0  | 16.55 | 16.46 | 16.48 |      |   |
| 5 | 256QAM | 1  | 0  | 16.17 | 16.05 | 16.08 | 16.8 | 0 |
| 5 | 256QAM | 1  | 12 | 16.09 | 16.06 | 16.08 |      |   |
| 5 | 256QAM | 1  | 24 | 16.19 | 16.13 | 15.90 |      |   |
| 5 | 256QAM | 12 | 0  | 15.95 | 15.87 | 16.04 | 16.8 | 0 |
| 5 | 256QAM | 12 | 7  | 16.15 | 15.96 | 15.99 |      |   |
| 5 | 256QAM | 12 | 13 | 16.17 | 15.81 | 15.90 |      |   |
| 5 | 256QAM | 25 | 0  | 16.00 | 16.00 | 15.95 |      |   |



## &lt;LTE Band 41 PC3&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  | 17.8                | 0        |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 17.34                 | 17.24                        | 17.39                    | 17.21                         | 17.12                  |                     |          |
| 20              | QPSK       | 1       | 49        | 17.30                 | 17.44                        | 17.47                    | 17.34                         | 17.18                  | 17.8                | 0        |
| 20              | QPSK       | 1       | 99        | 17.28                 | 17.22                        | 17.32                    | 17.16                         | 17.17                  |                     |          |
| 20              | QPSK       | 50      | 0         | 17.41                 | 17.30                        | 17.29                    | 17.27                         | 17.04                  |                     |          |
| 20              | QPSK       | 50      | 24        | 17.45                 | 17.44                        | 17.46                    | 17.33                         | 17.31                  | 17.8                | 0        |
| 20              | QPSK       | 50      | 50        | 17.39                 | 17.40                        | 17.42                    | 17.32                         | 17.30                  |                     |          |
| 20              | QPSK       | 100     | 0         | 17.42                 | 17.33                        | 17.45                    | 17.33                         | 17.18                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.34                 | 17.30                        | 17.11                    | 17.14                         | 16.91                  | 17.8                | 0        |
| 20              | 16QAM      | 1       | 49        | 17.27                 | 17.29                        | 17.35                    | 17.33                         | 17.33                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.21                 | 17.38                        | 17.34                    | 16.94                         | 17.09                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 17.30                 | 17.18                        | 17.40                    | 17.36                         | 17.14                  | 17.8                | 0        |
| 20              | 16QAM      | 50      | 24        | 17.31                 | 17.36                        | 17.43                    | 17.46                         | 17.37                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.27                 | 17.28                        | 17.39                    | 17.35                         | 17.36                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 17.33                 | 17.25                        | 17.29                    | 17.34                         | 17.30                  | 17.8                | 0        |
| 20              | 64QAM      | 1       | 0         | 16.86                 | 16.97                        | 16.76                    | 16.69                         | 16.68                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 16.77                 | 16.99                        | 16.86                    | 17.08                         | 16.97                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 16.74                 | 16.99                        | 16.64                    | 16.78                         | 16.77                  | 17.8                | 0        |
| 20              | 64QAM      | 50      | 0         | 17.13                 | 17.21                        | 16.91                    | 17.02                         | 16.98                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 17.05                 | 17.23                        | 17.12                    | 17.03                         | 17.28                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 16.89                 | 17.22                        | 17.17                    | 16.97                         | 17.18                  | 16.8                | 0        |
| 20              | 64QAM      | 100     | 0         | 16.93                 | 17.08                        | 17.10                    | 17.05                         | 17.06                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.26                 | 16.37                        | 16.16                    | 16.09                         | 16.08                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 16.17                 | 16.39                        | 16.26                    | 16.48                         | 16.37                  | 16.8                | 0        |
| 20              | 256QAM     | 1       | 99        | 16.14                 | 16.39                        | 16.04                    | 16.18                         | 16.17                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 16.13                 | 16.21                        | 16.31                    | 16.42                         | 16.38                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 16.45                 | 16.21                        | 16.12                    | 16.43                         | 16.38                  | 16.8                | 0        |
| 20              | 256QAM     | 50      | 50        | 16.29                 | 16.22                        | 16.17                    | 16.37                         | 16.28                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 16.33                 | 16.48                        | 16.10                    | 16.45                         | 16.46                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | 17.8                | 0        |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 17.26                 | 17.08                        | 17.32                    | 17.41                         | 17.15                  |                     |          |
| 15              | QPSK       | 1       | 37        | 17.19                 | 17.38                        | 17.41                    | 17.44                         | 17.39                  | 17.8                | 0        |
| 15              | QPSK       | 1       | 74        | 17.33                 | 17.04                        | 17.45                    | 17.29                         | 17.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 17.34                 | 17.19                        | 17.43                    | 17.43                         | 17.26                  |                     |          |
| 15              | QPSK       | 36      | 20        | 17.41                 | 17.46                        | 17.45                    | 17.41                         | 17.39                  | 17.8                | 0        |
| 15              | QPSK       | 36      | 39        | 17.46                 | 17.32                        | 17.46                    | 17.45                         | 17.34                  |                     |          |
| 15              | QPSK       | 75      | 0         | 17.34                 | 17.31                        | 17.43                    | 17.40                         | 17.40                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.43                 | 17.25                        | 17.46                    | 17.41                         | 17.33                  | 17.8                | 0        |
| 15              | 16QAM      | 1       | 37        | 17.28                 | 17.34                        | 17.40                    | 17.46                         | 17.41                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.45                 | 17.36                        | 17.39                    | 17.40                         | 17.44                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 17.30                 | 17.33                        | 17.42                    | 17.43                         | 17.36                  | 17.8                | 0        |
| 15              | 16QAM      | 36      | 20        | 17.41                 | 17.45                        | 17.46                    | 17.45                         | 17.41                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 17.27                 | 17.37                        | 17.41                    | 17.41                         | 17.43                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 17.33                 | 17.35                        | 17.43                    | 17.39                         | 17.40                  | 17.8                | 0        |
| 15              | 64QAM      | 1       | 0         | 17.19                 | 17.10                        | 17.10                    | 17.38                         | 16.93                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 17.15                 | 17.27                        | 17.40                    | 17.40                         | 17.34                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 17.06                 | 17.04                        | 17.26                    | 17.24                         | 17.30                  | 17.8                | 0        |
| 15              | 64QAM      | 36      | 0         | 17.33                 | 17.31                        | 17.40                    | 17.40                         | 17.35                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 17.45                 | 17.45                        | 17.45                    | 17.38                         | 17.37                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 17.41                 | 17.37                        | 17.46                    | 17.36                         | 17.36                  | 17.8                | 0        |
| 15              | 64QAM      | 75      | 0         | 17.37                 | 17.39                        | 17.44                    | 17.39                         | 17.35                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 16.18  | 16.35  | 16.16 | 16.04   | 16.05  | 16.8                | 0        |
| 15              | 256QAM | 1  | 37 | 16.10  | 16.35  | 16.22 | 16.28   | 16.33  |                     |          |
| 15              | 256QAM | 1  | 74 | 16.04  | 16.33  | 15.95 | 16.17   | 16.14  |                     |          |
| 15              | 256QAM | 36 | 0  | 16.03  | 16.13  | 16.26 | 16.41   | 16.33  | 16.8                | 0        |
| 15              | 256QAM | 36 | 20 | 16.36  | 16.13  | 16.08 | 16.42   | 16.29  |                     |          |
| 15              | 256QAM | 36 | 39 | 16.21  | 16.18  | 16.16 | 16.35   | 16.18  |                     |          |
| 15              | 256QAM | 75 | 0  | 16.31  | 16.40  | 16.08 | 16.39   | 16.42  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 17.8                | 0        |
| 10              | QPSK   | 1  | 0  | 17.04  | 16.98  | 17.33 | 17.22   | 17.04  |                     |          |
| 10              | QPSK   | 1  | 25 | 17.04  | 17.11  | 17.43 | 17.27   | 17.18  |                     |          |
| 10              | QPSK   | 1  | 49 | 17.07  | 16.97  | 17.19 | 17.22   | 16.99  | 17.8                | 0        |
| 10              | QPSK   | 25 | 0  | 17.11  | 17.16  | 17.35 | 17.04   | 16.96  |                     |          |
| 10              | QPSK   | 25 | 12 | 17.42  | 17.27  | 17.39 | 17.11   | 17.22  |                     |          |
| 10              | QPSK   | 25 | 25 | 17.24  | 17.20  | 17.37 | 17.41   | 17.02  | 17.8                | 0        |
| 10              | QPSK   | 50 | 0  | 17.11  | 17.17  | 17.33 | 17.36   | 17.27  |                     |          |
| 10              | 16QAM  | 1  | 0  | 17.17  | 17.03  | 17.32 | 17.33   | 16.77  |                     |          |
| 10              | 16QAM  | 1  | 25 | 17.29  | 17.37  | 17.46 | 17.25   | 17.38  | 17.8                | 0        |
| 10              | 16QAM  | 1  | 49 | 17.42  | 17.04  | 17.33 | 17.26   | 17.10  |                     |          |
| 10              | 16QAM  | 25 | 0  | 17.18  | 17.14  | 17.41 | 17.38   | 16.95  |                     |          |
| 10              | 16QAM  | 25 | 12 | 17.26  | 17.35  | 17.44 | 17.21   | 17.37  | 17.8                | 0        |
| 10              | 16QAM  | 25 | 25 | 17.42  | 17.07  | 17.39 | 17.41   | 17.33  |                     |          |
| 10              | 16QAM  | 50 | 0  | 17.18  | 17.19  | 17.40 | 17.43   | 16.92  |                     |          |
| 10              | 64QAM  | 1  | 0  | 17.17  | 16.60  | 16.79 | 16.80   | 16.83  | 17.8                | 0        |
| 10              | 64QAM  | 1  | 25 | 17.11  | 17.06  | 17.21 | 16.87   | 17.16  |                     |          |
| 10              | 64QAM  | 1  | 49 | 17.01  | 16.87  | 17.20 | 16.91   | 16.77  |                     |          |
| 10              | 64QAM  | 25 | 0  | 17.15  | 17.19  | 17.44 | 17.13   | 16.97  | 17.8                | 0        |
| 10              | 64QAM  | 25 | 12 | 17.41  | 17.05  | 17.38 | 17.45   | 17.10  |                     |          |
| 10              | 64QAM  | 25 | 25 | 17.21  | 17.21  | 17.40 | 17.41   | 17.29  |                     |          |
| 10              | 64QAM  | 50 | 0  | 17.27  | 16.97  | 17.41 | 17.19   | 17.18  | 16.8                | 0        |
| 10              | 256QAM | 1  | 0  | 16.18  | 16.30  | 16.10 | 16.02   | 15.96  |                     |          |
| 10              | 256QAM | 1  | 25 | 16.10  | 16.30  | 16.22 | 16.23   | 16.25  |                     |          |
| 10              | 256QAM | 1  | 49 | 16.00  | 16.33  | 15.90 | 16.16   | 16.09  | 16.8                | 0        |
| 10              | 256QAM | 25 | 0  | 15.95  | 16.13  | 16.16 | 16.37   | 16.31  |                     |          |
| 10              | 256QAM | 25 | 12 | 16.26  | 16.07  | 16.00 | 16.20   | 16.20  |                     |          |
| 10              | 256QAM | 25 | 25 | 16.14  | 16.13  | 16.09 | 16.34   | 16.17  | 16.8                | 0        |
| 10              | 256QAM | 50 | 0  | 16.31  | 16.36  | 16.06 | 16.37   | 16.37  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 17.20  | 17.10  | 17.29 | 17.34   | 17.26  | 17.8                | 0        |
| 5               | QPSK   | 1  | 12 | 17.05  | 17.13  | 17.39 | 17.44   | 17.24  |                     |          |
| 5               | QPSK   | 1  | 24 | 17.18  | 17.14  | 17.38 | 17.33   | 17.25  |                     |          |
| 5               | QPSK   | 12 | 0  | 17.15  | 17.25  | 17.46 | 17.44   | 17.34  | 17.8                | 0        |
| 5               | QPSK   | 12 | 7  | 17.20  | 17.34  | 17.40 | 17.40   | 17.41  |                     |          |
| 5               | QPSK   | 12 | 13 | 17.23  | 17.33  | 17.42 | 17.44   | 17.37  |                     |          |
| 5               | QPSK   | 25 | 0  | 17.21  | 17.27  | 17.43 | 17.42   | 17.25  | 17.8                | 0        |
| 5               | 16QAM  | 1  | 0  | 17.32  | 17.23  | 17.45 | 17.39   | 17.33  |                     |          |
| 5               | 16QAM  | 1  | 12 | 17.33  | 17.23  | 17.41 | 17.34   | 17.35  |                     |          |
| 5               | 16QAM  | 1  | 24 | 17.26  | 17.28  | 17.39 | 17.44   | 17.29  | 17.8                | 0        |
| 5               | 16QAM  | 12 | 0  | 17.20  | 17.19  | 17.40 | 17.43   | 17.23  |                     |          |
| 5               | 16QAM  | 12 | 7  | 17.21  | 17.27  | 17.46 | 17.41   | 17.37  |                     |          |
| 5               | 16QAM  | 12 | 13 | 17.24  | 17.25  | 17.32 | 17.35   | 17.33  | 17.8                | 0        |
| 5               | 16QAM  | 25 | 0  | 17.28  | 17.27  | 17.38 | 17.44   | 17.28  |                     |          |
| 5               | 64QAM  | 1  | 0  | 17.12  | 16.95  | 17.15 | 17.24   | 17.12  |                     |          |
| 5               | 64QAM  | 1  | 12 | 17.13  | 17.10  | 17.22 | 17.39   | 17.15  | 17.8                | 0        |
| 5               | 64QAM  | 1  | 24 | 17.09  | 17.15  | 17.30 | 17.40   | 17.25  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 17.24 | 17.20 | 17.44 | 17.43 | 17.37 | 17.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 17.30 | 17.41 | 17.35 | 17.45 | 17.41 |      |   |
| 5 | 64QAM  | 12 | 13 | 17.29 | 17.32 | 17.38 | 17.40 | 17.36 |      |   |
| 5 | 64QAM  | 25 | 0  | 17.25 | 17.35 | 17.36 | 17.32 | 17.35 |      |   |
| 5 | 256QAM | 1  | 0  | 16.08 | 16.23 | 16.05 | 16.00 | 15.92 | 16.8 | 0 |
| 5 | 256QAM | 1  | 12 | 16.10 | 16.27 | 16.20 | 16.20 | 16.18 |      |   |
| 5 | 256QAM | 1  | 24 | 15.91 | 16.29 | 15.83 | 16.07 | 16.08 |      |   |
| 5 | 256QAM | 12 | 0  | 15.92 | 16.04 | 16.14 | 16.29 | 16.28 |      |   |
| 5 | 256QAM | 12 | 7  | 16.25 | 15.99 | 15.95 | 16.17 | 16.17 | 16.8 | 0 |
| 5 | 256QAM | 12 | 13 | 16.09 | 16.09 | 16.03 | 16.25 | 16.11 |      |   |
| 5 | 256QAM | 25 | 0  | 16.30 | 16.33 | 16.03 | 16.27 | 16.32 |      |   |



## &lt;LTE Band 41 PC2&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 19.03                 | 18.92                        | 19.07                    | 18.93                         | 18.99                  | 19.8                | 0        |
| 20              | QPSK       | 1       | 49        | 19.06                 | 19.12                        | 19.17                    | 19.13                         | 19.02                  |                     |          |
| 20              | QPSK       | 1       | 99        | 19.01                 | 19.10                        | 19.12                    | 19.12                         | 19.00                  |                     |          |
| 20              | QPSK       | 50      | 0         | 19.05                 | 19.05                        | 19.00                    | 18.88                         | 18.91                  | 19.8                | 0        |
| 20              | QPSK       | 50      | 24        | 19.07                 | 19.08                        | 19.09                    | 19.05                         | 18.98                  |                     |          |
| 20              | QPSK       | 50      | 50        | 19.06                 | 19.06                        | 19.04                    | 19.04                         | 18.84                  |                     |          |
| 20              | QPSK       | 100     | 0         | 19.11                 | 19.03                        | 19.09                    | 18.79                         | 18.81                  | 19.8                | 0        |
| 20              | 16QAM      | 1       | 0         | 18.96                 | 18.98                        | 19.02                    | 18.98                         | 19.07                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 18.92                 | 18.81                        | 18.85                    | 18.79                         | 18.98                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 19.01                 | 18.88                        | 18.99                    | 19.03                         | 18.99                  | 19.8                | 0        |
| 20              | 16QAM      | 50      | 0         | 19.13                 | 19.04                        | 19.07                    | 18.88                         | 19.04                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 19.01                 | 18.95                        | 18.89                    | 18.88                         | 18.88                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.09                 | 18.81                        | 18.87                    | 18.80                         | 18.96                  | 19.8                | 0        |
| 20              | 16QAM      | 100     | 0         | 19.13                 | 19.05                        | 18.96                    | 18.87                         | 18.83                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 18.92                 | 18.98                        | 18.90                    | 19.09                         | 18.89                  | 19.8                | 0        |
| 20              | 64QAM      | 1       | 49        | 19.16                 | 18.95                        | 18.91                    | 18.98                         | 18.92                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 18.92                 | 18.94                        | 19.11                    | 18.92                         | 18.94                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 18.14                 | 18.28                        | 18.17                    | 18.21                         | 18.17                  | 19.8                | 0        |
| 20              | 64QAM      | 50      | 24        | 18.23                 | 18.36                        | 18.29                    | 18.27                         | 18.38                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 18.21                 | 18.39                        | 18.32                    | 18.22                         | 18.42                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.17                 | 18.28                        | 18.22                    | 18.26                         | 18.31                  | 19.3                | 0        |
| 20              | 256QAM     | 1       | 0         | 18.03                 | 17.92                        | 18.07                    | 17.93                         | 17.99                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 18.06                 | 18.12                        | 18.17                    | 18.13                         | 18.02                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 18.01                 | 18.10                        | 18.12                    | 18.12                         | 18.00                  | 19.3                | 0        |
| 20              | 256QAM     | 50      | 0         | 18.05                 | 18.05                        | 18.00                    | 17.88                         | 17.91                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 18.07                 | 18.08                        | 18.09                    | 18.05                         | 17.98                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 18.06                 | 18.06                        | 18.04                    | 18.04                         | 17.84                  | 19.3                | 0        |
| 20              | 256QAM     | 100     | 0         | 18.11                 | 18.03                        | 18.09                    | 17.89                         | 17.81                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 18.98                 | 18.83                        | 19.06                    | 18.74                         | 18.80                  | 19.8                | 0        |
| 15              | QPSK       | 1       | 37        | 18.96                 | 19.08                        | 18.97                    | 18.97                         | 18.94                  |                     |          |
| 15              | QPSK       | 1       | 74        | 18.88                 | 18.99                        | 19.05                    | 18.92                         | 18.81                  |                     |          |
| 15              | QPSK       | 36      | 0         | 18.91                 | 18.98                        | 18.92                    | 18.72                         | 18.74                  | 19.8                | 0        |
| 15              | QPSK       | 36      | 20        | 19.04                 | 18.98                        | 18.89                    | 18.92                         | 18.86                  |                     |          |
| 15              | QPSK       | 36      | 39        | 18.90                 | 18.88                        | 18.89                    | 19.00                         | 18.74                  |                     |          |
| 15              | QPSK       | 75      | 0         | 19.10                 | 18.98                        | 19.03                    | 18.73                         | 18.65                  | 19.8                | 0        |
| 15              | 16QAM      | 1       | 0         | 18.88                 | 18.78                        | 18.98                    | 18.78                         | 19.02                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 18.84                 | 18.62                        | 18.67                    | 18.72                         | 18.79                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 18.87                 | 18.84                        | 18.98                    | 18.98                         | 18.79                  | 19.8                | 0        |
| 15              | 16QAM      | 36      | 0         | 18.95                 | 18.95                        | 18.87                    | 18.69                         | 18.94                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 18.96                 | 18.87                        | 18.74                    | 18.77                         | 18.74                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 18.92                 | 18.71                        | 18.67                    | 18.76                         | 18.90                  | 19.8                | 0        |
| 15              | 16QAM      | 75      | 0         | 18.98                 | 18.98                        | 18.83                    | 18.72                         | 18.76                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 18.75                 | 18.86                        | 18.89                    | 18.92                         | 18.74                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.99                 | 18.76                        | 18.77                    | 18.92                         | 18.78                  | 19.8                | 0        |
| 15              | 64QAM      | 1       | 74        | 18.82                 | 18.84                        | 19.03                    | 18.82                         | 18.86                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 18.08                 | 18.09                        | 18.03                    | 18.18                         | 18.16                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 18.22                 | 18.23                        | 18.24                    | 18.17                         | 18.23                  | 19.8                | 0        |
| 15              | 64QAM      | 36      | 39        | 18.03                 | 18.20                        | 18.22                    | 18.05                         | 18.29                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 18.01                 | 18.23                        | 18.18                    | 18.16                         | 18.22                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 18.03  | 17.90  | 17.98 | 17.89   | 17.93  | 19.3                | 0        |
| 15              | 256QAM | 1  | 37 | 17.97  | 18.03  | 18.14 | 18.08   | 18.01  |                     |          |
| 15              | 256QAM | 1  | 74 | 17.95  | 18.07  | 18.04 | 18.08   | 18.00  |                     |          |
| 15              | 256QAM | 36 | 0  | 17.97  | 18.02  | 17.99 | 17.82   | 17.84  | 19.3                | 0        |
| 15              | 256QAM | 36 | 20 | 18.07  | 18.08  | 18.06 | 18.05   | 17.93  |                     |          |
| 15              | 256QAM | 36 | 39 | 18.02  | 18.05  | 17.99 | 18.00   | 17.86  |                     |          |
| 15              | 256QAM | 75 | 0  | 18.09  | 17.99  | 18.02 | 17.85   | 17.82  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 19.8                | 0        |
| 10              | QPSK   | 1  | 0  | 18.88  | 18.85  | 18.93 | 18.88   | 18.83  |                     |          |
| 10              | QPSK   | 1  | 25 | 19.03  | 19.09  | 19.16 | 19.04   | 18.83  |                     |          |
| 10              | QPSK   | 1  | 49 | 18.88  | 18.93  | 19.11 | 19.09   | 18.83  | 19.8                | 0        |
| 10              | QPSK   | 25 | 0  | 18.98  | 18.92  | 18.87 | 18.75   | 18.78  |                     |          |
| 10              | QPSK   | 25 | 12 | 18.98  | 18.95  | 18.97 | 18.95   | 18.94  |                     |          |
| 10              | QPSK   | 25 | 25 | 18.93  | 19.01  | 19.03 | 18.99   | 18.82  | 19.8                | 0        |
| 10              | QPSK   | 50 | 0  | 18.96  | 19.01  | 18.97 | 18.74   | 18.68  |                     |          |
| 10              | 16QAM  | 1  | 0  | 18.88  | 18.91  | 18.93 | 18.8    | 18.96  |                     |          |
| 10              | 16QAM  | 1  | 25 | 18.91  | 18.61  | 18.73 | 18.74   | 18.89  | 19.8                | 0        |
| 10              | 16QAM  | 1  | 49 | 18.93  | 18.78  | 18.98 | 18.84   | 18.8   |                     |          |
| 10              | 16QAM  | 25 | 0  | 19.07  | 19.03  | 19.06 | 18.84   | 19.01  |                     |          |
| 10              | 16QAM  | 25 | 12 | 18.94  | 18.94  | 18.8  | 18.84   | 18.76  | 19.8                | 0        |
| 10              | 16QAM  | 25 | 25 | 19.03  | 18.74  | 18.7  | 18.7    | 18.8   |                     |          |
| 10              | 16QAM  | 50 | 0  | 19.1   | 18.92  | 18.8  | 18.85   | 18.69  |                     |          |
| 10              | 64QAM  | 1  | 0  | 18.73  | 18.89  | 18.76 | 18.89   | 18.71  | 19.8                | 0        |
| 10              | 64QAM  | 1  | 25 | 19.11  | 18.81  | 18.76 | 18.81   | 18.85  |                     |          |
| 10              | 64QAM  | 1  | 49 | 18.85  | 18.84  | 18.95 | 18.84   | 18.86  |                     |          |
| 10              | 64QAM  | 25 | 0  | 17.99  | 18.17  | 17.98 | 18.01   | 18.15  | 19.8                | 0        |
| 10              | 64QAM  | 25 | 12 | 18.06  | 18.32  | 18.14 | 18.08   | 18.37  |                     |          |
| 10              | 64QAM  | 25 | 25 | 18.09  | 18.22  | 18.13 | 18.07   | 18.36  |                     |          |
| 10              | 64QAM  | 50 | 0  | 17.99  | 18.16  | 18.12 | 18.17   | 18.30  | 19.3                | 0        |
| 10              | 256QAM | 1  | 0  | 18.04  | 17.93  | 17.99 | 17.92   | 17.89  |                     |          |
| 10              | 256QAM | 1  | 25 | 17.97  | 18.02  | 18.02 | 18.06   | 18.00  |                     |          |
| 10              | 256QAM | 1  | 49 | 17.98  | 18.07  | 17.99 | 18.04   | 17.96  | 19.3                | 0        |
| 10              | 256QAM | 25 | 0  | 18.02  | 18.03  | 17.97 | 17.88   | 17.89  |                     |          |
| 10              | 256QAM | 25 | 12 | 18.05  | 18.08  | 18.08 | 18.01   | 17.94  |                     |          |
| 10              | 256QAM | 25 | 25 | 18.03  | 18.05  | 17.95 | 17.98   | 17.84  | Tune-up limit (dBm) | MPR (dB) |
| 10              | 256QAM | 50 | 0  | 18.04  | 18.01  | 18.03 | 17.85   | 17.87  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | 19.8                | 0        |
| 5               | QPSK   | 1  | 0  | 18.88  | 18.90  | 18.91 | 18.73   | 18.90  |                     |          |
| 5               | QPSK   | 1  | 12 | 18.97  | 19.11  | 19.00 | 19.00   | 18.83  |                     |          |
| 5               | QPSK   | 1  | 24 | 18.81  | 18.91  | 18.94 | 19.08   | 18.94  | 19.8                | 0        |
| 5               | QPSK   | 12 | 0  | 18.86  | 18.88  | 18.91 | 18.87   | 18.75  |                     |          |
| 5               | QPSK   | 12 | 7  | 18.94  | 18.92  | 19.05 | 18.99   | 18.86  |                     |          |
| 5               | QPSK   | 12 | 13 | 18.86  | 18.86  | 19.03 | 18.84   | 18.67  | 19.8                | 0        |
| 5               | QPSK   | 25 | 0  | 18.99  | 19.02  | 18.89 | 18.68   | 18.63  |                     |          |
| 5               | 16QAM  | 1  | 0  | 18.89  | 18.83  | 18.88 | 18.86   | 19.01  |                     |          |
| 5               | 16QAM  | 1  | 12 | 18.77  | 18.74  | 18.73 | 18.60   | 18.96  | 19.8                | 0        |
| 5               | 16QAM  | 1  | 24 | 18.84  | 18.77  | 18.98 | 18.86   | 18.91  |                     |          |
| 5               | 16QAM  | 12 | 0  | 19.11  | 18.86  | 18.90 | 18.73   | 18.88  |                     |          |
| 5               | 16QAM  | 12 | 7  | 18.96  | 18.81  | 18.85 | 18.73   | 18.82  | 19.8                | 0        |
| 5               | 16QAM  | 12 | 13 | 18.93  | 18.78  | 18.75 | 18.70   | 18.78  |                     |          |
| 5               | 16QAM  | 25 | 0  | 19.10  | 19.03  | 18.84 | 18.70   | 18.74  |                     |          |
| 5               | 64QAM  | 1  | 0  | 18.78  | 18.85  | 18.79 | 18.97   | 18.80  | 19.8                | 0        |
| 5               | 64QAM  | 1  | 12 | 19.04  | 18.75  | 18.88 | 18.85   | 18.76  |                     |          |
| 5               | 64QAM  | 1  | 24 | 18.74  | 18.89  | 18.93 | 18.80   | 18.85  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 18.05 | 18.24 | 18.11 | 18.20 | 18.04 | 19.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 18.17 | 18.18 | 18.24 | 18.10 | 18.35 |      |   |
| 5 | 64QAM  | 12 | 13 | 18.13 | 18.32 | 18.29 | 18.11 | 18.23 |      |   |
| 5 | 64QAM  | 25 | 0  | 18.15 | 18.18 | 18.18 | 18.07 | 18.14 |      |   |
| 5 | 256QAM | 1  | 0  | 18.08 | 17.89 | 18.03 | 17.88 | 17.84 | 19.3 | 0 |
| 5 | 256QAM | 1  | 12 | 17.98 | 18.01 | 18.06 | 18.01 | 17.95 |      |   |
| 5 | 256QAM | 1  | 24 | 17.93 | 18.10 | 18.02 | 18.05 | 18.01 |      |   |
| 5 | 256QAM | 12 | 0  | 18.00 | 18.03 | 17.99 | 17.87 | 17.85 | 19.3 | 0 |
| 5 | 256QAM | 12 | 7  | 18.05 | 18.10 | 18.04 | 17.98 | 17.90 |      |   |
| 5 | 256QAM | 12 | 13 | 18.06 | 18.05 | 17.95 | 17.95 | 17.89 |      |   |
| 5 | 256QAM | 25 | 0  | 18.05 | 18.03 | 18.08 | 17.82 | 17.92 |      |   |



## &lt;LTE Band 48&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | 18.8                | 0        |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |          |
| 20              | QPSK       | 1       | 0         | 17.93                 | 18.29                        | 18.27                         | 18.05                  |                     |          |
| 20              | QPSK       | 1       | 49        | 18.13                 | 18.37                        | 18.30                         | 18.24                  | 18.8                | 0        |
| 20              | QPSK       | 1       | 99        | 17.81                 | 18.14                        | 18.16                         | 18.05                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.16                 | 18.27                        | 18.21                         | 18.23                  |                     |          |
| 20              | QPSK       | 50      | 24        | 18.29                 | 18.36                        | 18.33                         | 18.25                  | 18.8                | 0        |
| 20              | QPSK       | 50      | 50        | 18.15                 | 18.31                        | 18.30                         | 18.20                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.10                 | 18.33                        | 18.22                         | 18.23                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 18.09                 | 17.99                        | 18.05                         | 17.94                  | 18.8                | 0        |
| 20              | 16QAM      | 1       | 49        | 18.32                 | 18.13                        | 18.34                         | 18.20                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 18.02                 | 18.03                        | 18.30                         | 17.98                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 18.02                 | 17.94                        | 18.16                         | 17.89                  | 18.8                | 0        |
| 20              | 16QAM      | 50      | 24        | 18.16                 | 18.04                        | 18.33                         | 18.02                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 17.96                 | 17.95                        | 18.33                         | 17.95                  |                     |          |
| 20              | 16QAM      | 100     | 0         | 18.06                 | 18.00                        | 18.24                         | 17.93                  | 18.8                | 0        |
| 20              | 64QAM      | 1       | 0         | 18.07                 | 17.95                        | 18.04                         | 18.07                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 18.31                 | 18.20                        | 18.25                         | 18.29                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 17.99                 | 18.01                        | 18.28                         | 18.08                  | 18.8                | 0        |
| 20              | 64QAM      | 50      | 0         | 18.06                 | 17.99                        | 18.21                         | 18.03                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 18.17                 | 18.06                        | 18.17                         | 18.15                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 18.05                 | 17.98                        | 18.20                         | 18.13                  | 18.8                | 0        |
| 20              | 64QAM      | 100     | 0         | 18.09                 | 18.02                        | 18.27                         | 18.05                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 17.23                 | 17.59                        | 17.51                         | 17.35                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 17.43                 | 17.47                        | 17.50                         | 17.54                  | 18.8                | 0        |
| 20              | 256QAM     | 1       | 99        | 17.11                 | 17.44                        | 17.46                         | 17.35                  |                     |          |
| 20              | 256QAM     | 50      | 0         | 17.46                 | 17.57                        | 17.51                         | 17.53                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 17.59                 | 17.46                        | 17.43                         | 17.55                  | 18.8                | 0        |
| 20              | 256QAM     | 50      | 50        | 17.45                 | 17.51                        | 17.50                         | 17.50                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.40                 | 17.43                        | 17.52                         | 17.53                  |                     |          |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | 18.8                | 0        |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 17.87                 | 17.78                        | 18.18                         | 18.14                  |                     |          |
| 15              | QPSK       | 1       | 37        | 18.06                 | 17.88                        | 18.27                         | 18.29                  | 18.8                | 0        |
| 15              | QPSK       | 1       | 74        | 17.87                 | 17.76                        | 18.23                         | 18.17                  |                     |          |
| 15              | QPSK       | 36      | 0         | 18.07                 | 17.93                        | 18.17                         | 18.22                  |                     |          |
| 15              | QPSK       | 36      | 20        | 18.22                 | 17.97                        | 18.28                         | 18.28                  | 18.8                | 0        |
| 15              | QPSK       | 36      | 39        | 18.13                 | 17.94                        | 18.31                         | 18.30                  |                     |          |
| 15              | QPSK       | 75      | 0         | 18.06                 | 18.15                        | 18.26                         | 18.28                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 18.22                 | 18.14                        | 18.32                         | 18.32                  | 18.8                | 0        |
| 15              | 16QAM      | 1       | 37        | 18.33                 | 18.23                        | 18.25                         | 18.20                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 18.25                 | 18.19                        | 18.28                         | 18.36                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 18.06                 | 17.95                        | 18.22                         | 18.09                  | 18.8                | 0        |
| 15              | 16QAM      | 36      | 20        | 18.14                 | 18.02                        | 18.30                         | 18.10                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 18.06                 | 17.94                        | 18.35                         | 18.14                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 18.12                 | 17.97                        | 18.26                         | 18.03                  | 18.8                | 0        |
| 15              | 64QAM      | 1       | 0         | 18.12                 | 18.03                        | 18.24                         | 18.17                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.35                 | 18.12                        | 18.33                         | 18.34                  |                     |          |
| 15              | 64QAM      | 1       | 74        | 18.19                 | 18.06                        | 18.31                         | 18.20                  | 18.8                | 0        |
| 15              | 64QAM      | 36      | 0         | 18.09                 | 17.98                        | 18.27                         | 18.11                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 18.17                 | 18.01                        | 18.33                         | 18.12                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 18.07                 | 17.98                        | 18.21                         | 18.18                  | 18.8                | 0        |
| 15              | 64QAM      | 75      | 0         | 18.11                 | 18.03                        | 18.31                         | 18.10                  |                     |          |



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|                 |        |    |    |        |        |        |        |                        |             |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|-------------|
| 15              | 256QAM | 1  | 0  | 17.19  | 17.56  | 17.43  | 17.32  | 18.8                   | 0           |
| 15              | 256QAM | 1  | 37 | 17.41  | 17.38  | 17.40  | 17.49  |                        |             |
| 15              | 256QAM | 1  | 74 | 17.08  | 17.34  | 17.44  | 17.31  |                        |             |
| 15              | 256QAM | 36 | 0  | 17.39  | 17.49  | 17.42  | 17.48  | 18.8                   | 0           |
| 15              | 256QAM | 36 | 20 | 17.58  | 17.38  | 17.43  | 17.45  |                        |             |
| 15              | 256QAM | 36 | 39 | 17.45  | 17.49  | 17.43  | 17.46  |                        |             |
| 15              | 256QAM | 75 | 0  | 17.33  | 17.37  | 17.52  | 17.43  |                        |             |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |             |
| 10              | QPSK   | 1  | 0  | 17.75  | 17.56  | 17.92  | 17.78  | 18.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 18.06  | 17.90  | 18.33  | 18.05  |                        |             |
| 10              | QPSK   | 1  | 49 | 17.87  | 17.80  | 18.19  | 17.96  |                        |             |
| 10              | QPSK   | 25 | 0  | 17.96  | 17.81  | 18.16  | 17.97  | 18.8                   | 0           |
| 10              | QPSK   | 25 | 12 | 18.15  | 17.95  | 18.35  | 18.21  |                        |             |
| 10              | QPSK   | 25 | 25 | 18.09  | 17.94  | 18.30  | 18.15  |                        |             |
| 10              | QPSK   | 50 | 0  | 18.09  | 17.92  | 18.29  | 18.13  |                        |             |
| 10              | 16QAM  | 1  | 0  | 18.01  | 17.83  | 18.15  | 17.97  | 18.8                   | 0           |
| 10              | 16QAM  | 1  | 25 | 18.30  | 18.23  | 18.27  | 18.25  |                        |             |
| 10              | 16QAM  | 1  | 49 | 18.15  | 18.04  | 18.36  | 18.21  |                        |             |
| 10              | 16QAM  | 25 | 0  | 17.93  | 17.81  | 18.11  | 17.94  | 18.8                   | 0           |
| 10              | 16QAM  | 25 | 12 | 18.16  | 17.93  | 18.32  | 18.19  |                        |             |
| 10              | 16QAM  | 25 | 25 | 17.97  | 17.96  | 18.27  | 18.11  |                        |             |
| 10              | 16QAM  | 50 | 0  | 18.08  | 17.90  | 18.03  | 18.09  |                        |             |
| 10              | 64QAM  | 1  | 0  | 18.08  | 17.82  | 18.24  | 18.05  | 18.8                   | 0           |
| 10              | 64QAM  | 1  | 25 | 18.36  | 18.27  | 18.34  | 18.27  |                        |             |
| 10              | 64QAM  | 1  | 49 | 18.20  | 18.08  | 18.24  | 18.29  |                        |             |
| 10              | 64QAM  | 25 | 0  | 18.06  | 17.88  | 18.29  | 18.07  | 18.8                   | 0           |
| 10              | 64QAM  | 25 | 12 | 18.27  | 18.12  | 18.32  | 18.33  |                        |             |
| 10              | 64QAM  | 25 | 25 | 18.22  | 18.04  | 18.27  | 18.28  |                        |             |
| 10              | 64QAM  | 50 | 0  | 18.14  | 17.99  | 18.36  | 18.20  |                        |             |
| 10              | 256QAM | 1  | 0  | 17.10  | 17.51  | 17.42  | 17.30  | 18.8                   | 0           |
| 10              | 256QAM | 1  | 25 | 17.33  | 17.35  | 17.30  | 17.46  |                        |             |
| 10              | 256QAM | 1  | 49 | 17.07  | 17.25  | 17.35  | 17.27  |                        |             |
| 10              | 256QAM | 25 | 0  | 17.34  | 17.42  | 17.36  | 17.47  | 18.8                   | 0           |
| 10              | 256QAM | 25 | 12 | 17.54  | 17.36  | 17.39  | 17.45  |                        |             |
| 10              | 256QAM | 25 | 25 | 17.38  | 17.47  | 17.40  | 17.43  |                        |             |
| 10              | 256QAM | 50 | 0  | 17.27  | 17.35  | 17.45  | 17.35  |                        |             |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 17.75  | 17.52  | 17.88  | 17.73  | 18.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 17.98  | 17.80  | 18.27  | 17.99  |                        |             |
| 5               | QPSK   | 1  | 24 | 17.84  | 17.78  | 18.15  | 17.95  |                        |             |
| 5               | QPSK   | 12 | 0  | 17.86  | 17.79  | 18.14  | 17.91  | 18.8                   | 0           |
| 5               | QPSK   | 12 | 7  | 18.12  | 17.92  | 18.29  | 18.21  |                        |             |
| 5               | QPSK   | 12 | 13 | 18.09  | 17.91  | 18.26  | 18.12  |                        |             |
| 5               | QPSK   | 25 | 0  | 18.08  | 17.90  | 18.29  | 18.06  |                        |             |
| 5               | 16QAM  | 1  | 0  | 17.94  | 17.73  | 18.11  | 17.90  | 18.8                   | 0           |
| 5               | 16QAM  | 1  | 12 | 18.26  | 18.22  | 18.24  | 18.22  |                        |             |
| 5               | 16QAM  | 1  | 24 | 18.11  | 17.94  | 18.35  | 18.19  |                        |             |
| 5               | 16QAM  | 12 | 0  | 17.90  | 17.80  | 18.01  | 17.91  | 18.8                   | 0           |
| 5               | 16QAM  | 12 | 7  | 18.08  | 17.85  | 18.24  | 18.17  |                        |             |
| 5               | 16QAM  | 12 | 13 | 17.96  | 17.88  | 18.18  | 18.03  |                        |             |
| 5               | 16QAM  | 25 | 0  | 18.01  | 17.81  | 17.93  | 18.04  |                        |             |
| 5               | 64QAM  | 1  | 0  | 18.04  | 17.80  | 18.14  | 17.96  | 18.8                   | 0           |
| 5               | 64QAM  | 1  | 12 | 18.33  | 18.27  | 18.28  | 18.26  |                        |             |
| 5               | 64QAM  | 1  | 24 | 18.14  | 17.98  | 18.16  | 18.20  |                        |             |



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|   |        |    |    |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 18.02 | 17.85 | 18.27 | 18.03 | 18.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 18.19 | 18.06 | 18.22 | 18.31 |      |   |
| 5 | 64QAM  | 12 | 13 | 18.14 | 17.94 | 18.17 | 18.23 |      |   |
| 5 | 64QAM  | 25 | 0  | 18.11 | 17.96 | 18.33 | 18.13 |      |   |
| 5 | 256QAM | 1  | 0  | 17.03 | 17.44 | 17.40 | 17.24 | 18.8 | 0 |
| 5 | 256QAM | 1  | 12 | 17.28 | 17.32 | 17.24 | 17.37 |      |   |
| 5 | 256QAM | 1  | 24 | 17.07 | 17.23 | 17.31 | 17.18 |      |   |
| 5 | 256QAM | 12 | 0  | 17.30 | 17.35 | 17.31 | 17.39 | 18.8 | 0 |
| 5 | 256QAM | 12 | 7  | 17.53 | 17.28 | 17.36 | 17.40 |      |   |
| 5 | 256QAM | 12 | 13 | 17.30 | 17.38 | 17.31 | 17.33 |      |   |
| 5 | 256QAM | 25 | 0  | 17.17 | 17.34 | 17.36 | 17.27 |      |   |

LAT Reduced Power Mode for Hotspot On<LTE Band 38>

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |             |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |             |
| 20              | QPSK       | 1       | 0         | 20.18                    | 20.19                       | 20.16                     | 20.8                   | 0           |
| 20              | QPSK       | 1       | 49        | 20.32                    | 20.28                       | 20.24                     |                        |             |
| 20              | QPSK       | 1       | 99        | 20.38                    | 20.34                       | 20.20                     |                        |             |
| 20              | QPSK       | 50      | 0         | 20.15                    | 20.14                       | 20.09                     | 20.8                   | 0           |
| 20              | QPSK       | 50      | 24        | 20.29                    | 20.16                       | 20.26                     |                        |             |
| 20              | QPSK       | 50      | 50        | 20.22                    | 20.18                       | 20.20                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.21                    | 20.19                       | 20.02                     | 20.8                   | 0           |
| 20              | 16QAM      | 1       | 0         | 20.32                    | 20.21                       | 20.21                     |                        |             |
| 20              | 16QAM      | 1       | 49        | 20.31                    | 20.30                       | 20.27                     |                        |             |
| 20              | 16QAM      | 1       | 99        | 20.37                    | 20.34                       | 20.30                     | 20.8                   | 0           |
| 20              | 16QAM      | 50      | 0         | 20.20                    | 20.11                       | 19.93                     |                        |             |
| 20              | 16QAM      | 50      | 24        | 20.34                    | 20.18                       | 20.21                     |                        |             |
| 20              | 16QAM      | 50      | 50        | 20.27                    | 20.17                       | 20.06                     | 20.8                   | 0           |
| 20              | 16QAM      | 100     | 0         | 20.23                    | 20.07                       | 20.03                     |                        |             |
| 20              | 64QAM      | 1       | 0         | 20.14                    | 20.16                       | 20.22                     |                        |             |
| 20              | 64QAM      | 1       | 49        | 20.35                    | 20.21                       | 20.19                     | 20.8                   | 0           |
| 20              | 64QAM      | 1       | 99        | 20.20                    | 20.07                       | 20.06                     |                        |             |
| 20              | 64QAM      | 50      | 0         | 20.00                    | 19.93                       | 19.86                     |                        |             |
| 20              | 64QAM      | 50      | 24        | 20.12                    | 19.99                       | 19.89                     | 20.8                   | 0           |
| 20              | 64QAM      | 50      | 50        | 20.14                    | 19.87                       | 19.86                     |                        |             |
| 20              | 64QAM      | 100     | 0         | 20.01                    | 19.91                       | 19.96                     |                        |             |
| 20              | 256QAM     | 1       | 0         | 19.38                    | 19.39                       | 19.36                     | 18.8                   | 0           |
| 20              | 256QAM     | 1       | 49        | 19.39                    | 19.40                       | 19.34                     |                        |             |
| 20              | 256QAM     | 1       | 99        | 19.41                    | 19.40                       | 19.40                     |                        |             |
| 20              | 256QAM     | 50      | 0         | 19.35                    | 19.34                       | 19.29                     | 18.8                   | 0           |
| 20              | 256QAM     | 50      | 24        | 19.42                    | 19.36                       | 19.36                     |                        |             |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.38                       | 19.40                     |                        |             |
| 20              | 256QAM     | 100     | 0         | 19.41                    | 19.39                       | 19.22                     |                        |             |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |             |
| 15              | QPSK       | 1       | 0         | 20.09                    | 20.11                       | 20.13                     | 20.8                   | 0           |
| 15              | QPSK       | 1       | 37        | 20.16                    | 20.02                       | 20.04                     |                        |             |
| 15              | QPSK       | 1       | 74        | 20.24                    | 20.02                       | 20.03                     |                        |             |
| 15              | QPSK       | 36      | 0         | 20.16                    | 19.94                       | 20.15                     | 20.8                   | 0           |
| 15              | QPSK       | 36      | 12        | 20.25                    | 20.07                       | 20.15                     |                        |             |
| 15              | QPSK       | 36      | 25        | 20.25                    | 20.05                       | 20.04                     |                        |             |
| 15              | QPSK       | 75      | 0         | 20.24                    | 20.05                       | 20.11                     | 20.8                   | 0           |
| 15              | 16QAM      | 1       | 0         | 20.19                    | 20.35                       | 20.27                     |                        |             |
| 15              | 16QAM      | 1       | 37        | 20.26                    | 20.36                       | 20.23                     |                        |             |
| 15              | 16QAM      | 1       | 74        | 20.25                    | 20.28                       | 20.27                     | 20.8                   | 0           |
| 15              | 16QAM      | 36      | 0         | 19.83                    | 19.76                       | 19.90                     |                        |             |
| 15              | 16QAM      | 36      | 20        | 19.99                    | 19.94                       | 19.91                     |                        |             |
| 15              | 16QAM      | 36      | 39        | 19.94                    | 19.86                       | 19.87                     | 20.8                   | 0           |
| 15              | 16QAM      | 75      | 0         | 19.97                    | 19.85                       | 19.89                     |                        |             |
| 15              | 64QAM      | 1       | 0         | 20.02                    | 19.87                       | 20.04                     |                        |             |
| 15              | 64QAM      | 1       | 37        | 19.92                    | 19.99                       | 20.01                     | 20.8                   | 0           |
| 15              | 64QAM      | 1       | 74        | 19.90                    | 19.85                       | 20.02                     |                        |             |
| 15              | 64QAM      | 36      | 0         | 19.77                    | 19.65                       | 19.71                     |                        |             |
| 15              | 64QAM      | 36      | 20        | 19.81                    | 19.70                       | 19.83                     | 20.8                   | 0           |
| 15              | 64QAM      | 36      | 39        | 19.89                    | 19.68                       | 19.67                     |                        |             |



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|                 |        |    |    |        |       |        |                        |             |
|-----------------|--------|----|----|--------|-------|--------|------------------------|-------------|
| 15              | 64QAM  | 75 | 0  | 19.85  | 19.67 | 19.74  |                        |             |
| 15              | 256QAM | 1  | 0  | 19.37  | 19.32 | 19.26  | 18.8                   | 0           |
| 15              | 256QAM | 1  | 37 | 19.36  | 19.36 | 19.25  |                        |             |
| 15              | 256QAM | 1  | 74 | 19.33  | 19.40 | 19.40  |                        |             |
| 15              | 256QAM | 36 | 0  | 19.33  | 19.29 | 19.19  | 18.8                   | 0           |
| 15              | 256QAM | 36 | 20 | 19.38  | 19.31 | 19.30  |                        |             |
| 15              | 256QAM | 36 | 39 | 19.38  | 19.31 | 19.39  |                        |             |
| 15              | 256QAM | 75 | 0  | 19.40  | 19.39 | 19.17  |                        |             |
| Channel         |        |    |    | 37800  | 38000 | 38200  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |             |
| 10              | QPSK   | 1  | 0  | 19.82  | 19.97 | 19.99  | 20.8                   | 0           |
| 10              | QPSK   | 1  | 25 | 20.15  | 20.03 | 20.02  |                        |             |
| 10              | QPSK   | 1  | 49 | 20.09  | 20.07 | 20.04  |                        |             |
| 10              | QPSK   | 25 | 0  | 19.97  | 19.75 | 19.86  | 20.8                   | 0           |
| 10              | QPSK   | 25 | 12 | 20.10  | 19.85 | 19.99  |                        |             |
| 10              | QPSK   | 25 | 25 | 20.05  | 19.84 | 19.87  |                        |             |
| 10              | QPSK   | 50 | 0  | 20.01  | 19.84 | 19.88  |                        |             |
| 10              | 16QAM  | 1  | 0  | 19.84  | 19.98 | 20.18  | 20.8                   | 0           |
| 10              | 16QAM  | 1  | 25 | 20.23  | 20.04 | 20.08  |                        |             |
| 10              | 16QAM  | 1  | 49 | 19.89  | 20.13 | 20.19  |                        |             |
| 10              | 16QAM  | 25 | 0  | 19.65  | 19.66 | 19.75  | 20.8                   | 0           |
| 10              | 16QAM  | 25 | 12 | 19.92  | 19.64 | 19.85  |                        |             |
| 10              | 16QAM  | 25 | 25 | 19.75  | 19.69 | 19.71  |                        |             |
| 10              | 16QAM  | 50 | 0  | 19.85  | 19.62 | 19.68  |                        |             |
| 10              | 64QAM  | 1  | 0  | 19.48  | 19.72 | 19.78  | 20.8                   | 0           |
| 10              | 64QAM  | 1  | 25 | 19.88  | 19.66 | 19.75  |                        |             |
| 10              | 64QAM  | 1  | 49 | 19.63  | 19.76 | 19.81  |                        |             |
| 10              | 64QAM  | 25 | 0  | 19.62  | 19.39 | 19.59  | 20.8                   | 0           |
| 10              | 64QAM  | 25 | 12 | 19.79  | 19.51 | 19.64  |                        |             |
| 10              | 64QAM  | 25 | 25 | 19.60  | 19.64 | 19.51  |                        |             |
| 10              | 64QAM  | 50 | 0  | 19.62  | 19.50 | 19.48  |                        |             |
| 10              | 256QAM | 1  | 0  | 19.37  | 19.31 | 19.23  | 18.8                   | 0           |
| 10              | 256QAM | 1  | 25 | 19.32  | 19.30 | 19.23  |                        |             |
| 10              | 256QAM | 1  | 49 | 19.33  | 19.33 | 19.36  |                        |             |
| 10              | 256QAM | 25 | 0  | 19.32  | 19.22 | 19.19  | 18.8                   | 0           |
| 10              | 256QAM | 25 | 12 | 19.36  | 19.31 | 19.30  |                        |             |
| 10              | 256QAM | 25 | 25 | 19.34  | 19.31 | 19.29  |                        |             |
| 10              | 256QAM | 50 | 0  | 19.34  | 19.38 | 19.16  |                        |             |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |             |
| 5               | QPSK   | 1  | 0  | 20.18  | 19.86 | 20.05  | 20.8                   | 0           |
| 5               | QPSK   | 1  | 12 | 20.14  | 20.01 | 20.01  |                        |             |
| 5               | QPSK   | 1  | 24 | 20.12  | 20.06 | 20.05  |                        |             |
| 5               | QPSK   | 12 | 0  | 20.08  | 19.80 | 19.96  | 20.8                   | 0           |
| 5               | QPSK   | 12 | 7  | 20.10  | 19.93 | 19.95  |                        |             |
| 5               | QPSK   | 12 | 13 | 20.06  | 19.94 | 20.00  |                        |             |
| 5               | QPSK   | 25 | 0  | 20.03  | 19.84 | 19.92  |                        |             |
| 5               | 16QAM  | 1  | 0  | 20.18  | 19.93 | 20.02  | 20.8                   | 0           |
| 5               | 16QAM  | 1  | 12 | 20.18  | 19.97 | 20.12  |                        |             |
| 5               | 16QAM  | 1  | 24 | 20.17  | 20.08 | 20.12  |                        |             |
| 5               | 16QAM  | 12 | 0  | 20.03  | 19.88 | 19.96  | 20.8                   | 0           |
| 5               | 16QAM  | 12 | 7  | 20.18  | 19.96 | 20.05  |                        |             |
| 5               | 16QAM  | 12 | 13 | 20.13  | 19.97 | 19.93  |                        |             |
| 5               | 16QAM  | 25 | 0  | 20.07  | 19.94 | 19.90  |                        |             |
| 5               | 64QAM  | 1  | 0  | 20.01  | 19.85 | 19.95  | 20.8                   | 0           |
| 5               | 64QAM  | 1  | 12 | 20.04  | 19.96 | 19.95  |                        |             |



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|   |        |    |    |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|------|---|
| 5 | 64QAM  | 1  | 24 | 20.11 | 19.96 | 19.94 |      |   |
| 5 | 64QAM  | 12 | 0  | 20.34 | 20.23 | 20.28 | 20.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 20.26 | 20.21 | 20.19 |      |   |
| 5 | 64QAM  | 12 | 13 | 20.36 | 20.31 | 20.29 |      |   |
| 5 | 64QAM  | 25 | 0  | 20.18 | 20.22 | 20.32 |      |   |
| 5 | 256QAM | 1  | 0  | 19.27 | 19.28 | 19.13 | 18.8 | 0 |
| 5 | 256QAM | 1  | 12 | 19.32 | 19.26 | 19.19 |      |   |
| 5 | 256QAM | 1  | 24 | 19.24 | 19.27 | 19.34 |      |   |
| 5 | 256QAM | 12 | 0  | 19.29 | 19.17 | 19.19 | 18.8 | 0 |
| 5 | 256QAM | 12 | 7  | 19.29 | 19.21 | 19.22 |      |   |
| 5 | 256QAM | 12 | 13 | 19.26 | 19.22 | 19.21 |      |   |
| 5 | 256QAM | 25 | 0  | 19.32 | 19.34 | 19.14 |      |   |



## &lt;LTE Band 41 PC3&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 20.29                 | 20.27                        | 20.02                    | 20.05                         | 19.98                  | 20.8                | 0        |
| 20              | QPSK       | 1       | 49        | 20.31                 | 20.32                        | 20.41                    | 20.40                         | 20.33                  |                     |          |
| 20              | QPSK       | 1       | 99        | 20.16                 | 20.20                        | 19.96                    | 20.03                         | 20.28                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.14                 | 20.12                        | 20.18                    | 20.30                         | 20.37                  | 20.8                | 0        |
| 20              | QPSK       | 50      | 24        | 20.20                 | 20.21                        | 20.39                    | 20.38                         | 20.36                  |                     |          |
| 20              | QPSK       | 50      | 50        | 20.17                 | 20.18                        | 20.33                    | 20.34                         | 20.35                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.14                 | 20.08                        | 20.37                    | 20.35                         | 20.32                  | 20.8                | 0        |
| 20              | 16QAM      | 1       | 0         | 20.16                 | 20.24                        | 20.08                    | 20.11                         | 20.14                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 20.26                 | 20.28                        | 20.34                    | 20.31                         | 20.37                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 20.21                 | 20.37                        | 20.11                    | 20.16                         | 20.33                  | 20.8                | 0        |
| 20              | 16QAM      | 50      | 0         | 19.79                 | 19.79                        | 19.85                    | 20.04                         | 19.99                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 19.97                 | 20.01                        | 20.01                    | 20.08                         | 20.28                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.95                 | 19.95                        | 20.00                    | 20.15                         | 20.21                  | 20.8                | 0        |
| 20              | 16QAM      | 100     | 0         | 19.90                 | 19.81                        | 19.88                    | 20.04                         | 20.14                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 20.33                 | 20.35                        | 20.20                    | 19.94                         | 19.92                  | 20.8                | 0        |
| 20              | 64QAM      | 1       | 49        | 20.31                 | 20.33                        | 20.30                    | 20.37                         | 20.21                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 20.35                 | 20.31                        | 20.06                    | 19.95                         | 19.99                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 20.32                 | 20.40                        | 20.10                    | 20.05                         | 19.98                  | 20.8                | 0        |
| 20              | 64QAM      | 50      | 24        | 20.39                 | 20.38                        | 20.23                    | 20.12                         | 20.25                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 20.26                 | 20.36                        | 20.26                    | 20.06                         | 20.14                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 20.23                 | 20.39                        | 20.12                    | 20.10                         | 20.09                  | 18.8                | 0        |
| 20              | 256QAM     | 1       | 0         | 18.41                 | 18.42                        | 18.45                    | 18.43                         | 18.43                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 18.26                 | 18.30                        | 18.06                    | 18.13                         | 18.38                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 18.24                 | 18.22                        | 18.28                    | 18.40                         | 18.41                  | 18.8                | 0        |
| 20              | 256QAM     | 50      | 0         | 18.30                 | 18.31                        | 18.42                    | 18.42                         | 18.46                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 18.27                 | 18.28                        | 18.43                    | 18.44                         | 18.45                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 18.24                 | 18.18                        | 18.41                    | 18.45                         | 18.42                  | 17.30               | 0        |
| 20              | 256QAM     | 100     | 0         | 17.30                 | 17.31                        | 17.42                    | 17.42                         | 17.46                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 20.11                 | 20.17                        | 20.00                    | 20.26                         | 20.13                  | 20.8                | 0        |
| 15              | QPSK       | 1       | 37        | 20.11                 | 20.36                        | 20.20                    | 20.36                         | 20.25                  |                     |          |
| 15              | QPSK       | 1       | 74        | 20.15                 | 20.18                        | 20.01                    | 20.14                         | 20.30                  |                     |          |
| 15              | QPSK       | 36      | 0         | 20.19                 | 20.33                        | 20.18                    | 20.25                         | 20.30                  | 20.8                | 0        |
| 15              | QPSK       | 36      | 20        | 20.33                 | 20.34                        | 20.26                    | 20.31                         | 20.37                  |                     |          |
| 15              | QPSK       | 36      | 39        | 20.24                 | 20.35                        | 20.25                    | 20.36                         | 20.30                  |                     |          |
| 15              | QPSK       | 75      | 0         | 20.21                 | 20.37                        | 20.16                    | 20.28                         | 20.33                  | 20.8                | 0        |
| 15              | 16QAM      | 1       | 0         | 20.35                 | 20.30                        | 20.14                    | 20.26                         | 20.32                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 20.13                 | 20.32                        | 20.11                    | 20.35                         | 20.22                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 20.29                 | 20.36                        | 20.23                    | 20.24                         | 20.33                  | 20.8                | 0        |
| 15              | 16QAM      | 36      | 0         | 19.80                 | 20.04                        | 19.87                    | 20.04                         | 20.03                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 19.94                 | 20.15                        | 19.91                    | 19.98                         | 20.13                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 19.92                 | 20.07                        | 19.89                    | 20.04                         | 20.15                  | 20.8                | 0        |
| 15              | 16QAM      | 75      | 0         | 19.94                 | 20.12                        | 19.91                    | 19.96                         | 20.18                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 20.09                 | 20.13                        | 20.00                    | 20.09                         | 20.11                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 20.09                 | 20.35                        | 20.20                    | 20.31                         | 20.38                  | 20.8                | 0        |
| 15              | 64QAM      | 1       | 74        | 20.08                 | 20.21                        | 20.00                    | 20.03                         | 20.25                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 19.85                 | 20.06                        | 19.94                    | 20.02                         | 20.09                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 20.01                 | 20.17                        | 19.96                    | 20.09                         | 20.24                  | 20.8                | 0        |
| 15              | 64QAM      | 36      | 39        | 19.99                 | 20.11                        | 20.00                    | 20.00                         | 20.22                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 19.92                 | 20.10                        | 19.92                    | 19.94                         | 20.22                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 18.38  | 18.28  | 18.05 | 18.08   | 17.98  | 18.8                | 0        |
| 15              | 256QAM | 1  | 37 | 18.31  | 18.34  | 18.39 | 18.43   | 18.43  |                     |          |
| 15              | 256QAM | 1  | 74 | 18.23  | 18.20  | 18.06 | 18.13   | 18.32  |                     |          |
| 15              | 256QAM | 36 | 0  | 18.17  | 18.12  | 18.18 | 18.31   | 18.31  | 18.8                | 0        |
| 15              | 256QAM | 36 | 20 | 18.25  | 18.29  | 18.40 | 18.32   | 18.43  |                     |          |
| 15              | 256QAM | 36 | 39 | 18.27  | 18.25  | 18.36 | 18.39   | 18.45  |                     |          |
| 15              | 256QAM | 75 | 0  | 18.14  | 18.08  | 18.34 | 18.40   | 18.39  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                     |          |
| 10              | QPSK   | 1  | 0  | 20.01  | 20.09  | 19.78 | 20.04   | 20.27  | 20.8                | 0        |
| 10              | QPSK   | 1  | 25 | 20.09  | 20.29  | 20.18 | 20.22   | 20.36  |                     |          |
| 10              | QPSK   | 1  | 49 | 20.23  | 20.19  | 19.83 | 19.86   | 20.07  |                     |          |
| 10              | QPSK   | 25 | 0  | 20.17  | 20.07  | 19.94 | 20.05   | 20.14  | 20.8                | 0        |
| 10              | QPSK   | 25 | 12 | 20.04  | 20.29  | 19.95 | 20.14   | 20.25  |                     |          |
| 10              | QPSK   | 25 | 25 | 19.98  | 20.15  | 19.97 | 20.05   | 20.17  |                     |          |
| 10              | QPSK   | 50 | 0  | 19.90  | 20.19  | 20.01 | 19.84   | 20.18  | 20.8                | 0        |
| 10              | 16QAM  | 1  | 0  | 20.07  | 20.16  | 19.99 | 19.96   | 20.13  |                     |          |
| 10              | 16QAM  | 1  | 25 | 20.01  | 20.19  | 20.13 | 20.05   | 20.27  |                     |          |
| 10              | 16QAM  | 1  | 49 | 20.01  | 20.00  | 19.97 | 19.94   | 19.99  | 20.8                | 0        |
| 10              | 16QAM  | 25 | 0  | 20.08  | 20.04  | 19.97 | 19.96   | 20.12  |                     |          |
| 10              | 16QAM  | 25 | 12 | 19.99  | 20.20  | 19.96 | 19.96   | 20.19  |                     |          |
| 10              | 16QAM  | 25 | 25 | 20.40  | 20.07  | 19.97 | 20.07   | 20.04  | 20.8                | 0        |
| 10              | 16QAM  | 50 | 0  | 20.28  | 20.13  | 19.90 | 20.06   | 20.02  |                     |          |
| 10              | 64QAM  | 1  | 0  | 20.15  | 19.95  | 19.91 | 20.13   | 20.10  |                     |          |
| 10              | 64QAM  | 1  | 25 | 20.04  | 20.30  | 20.33 | 20.25   | 20.36  | 20.8                | 0        |
| 10              | 64QAM  | 1  | 49 | 20.00  | 20.16  | 19.73 | 20.08   | 19.92  |                     |          |
| 10              | 64QAM  | 25 | 0  | 19.91  | 19.95  | 19.68 | 19.79   | 19.88  |                     |          |
| 10              | 64QAM  | 25 | 12 | 19.76  | 19.97  | 19.88 | 19.84   | 20.06  | 20.8                | 0        |
| 10              | 64QAM  | 25 | 25 | 19.72  | 19.99  | 19.76 | 19.89   | 19.98  |                     |          |
| 10              | 64QAM  | 50 | 0  | 20.08  | 20.01  | 19.67 | 19.85   | 19.92  |                     |          |
| 10              | 256QAM | 1  | 0  | 18.30  | 18.20  | 17.99 | 18.00   | 17.93  | 18.8                | 0        |
| 10              | 256QAM | 1  | 25 | 18.31  | 18.25  | 18.30 | 18.36   | 18.37  |                     |          |
| 10              | 256QAM | 1  | 49 | 18.14  | 18.12  | 18.05 | 18.10   | 18.27  |                     |          |
| 10              | 256QAM | 25 | 0  | 18.13  | 18.05  | 18.13 | 18.27   | 18.23  | 18.8                | 0        |
| 10              | 256QAM | 25 | 12 | 18.18  | 18.22  | 18.32 | 18.32   | 18.33  |                     |          |
| 10              | 256QAM | 25 | 25 | 18.21  | 18.24  | 18.29 | 18.33   | 18.45  |                     |          |
| 10              | 256QAM | 50 | 0  | 18.10  | 18.05  | 18.25 | 18.34   | 18.32  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 19.89  | 20.14  | 20.01 | 20.02   | 20.23  | 20.8                | 0        |
| 5               | QPSK   | 1  | 12 | 19.83  | 20.16  | 20.04 | 20.05   | 20.27  |                     |          |
| 5               | QPSK   | 1  | 24 | 19.85  | 20.14  | 19.97 | 20.00   | 20.18  |                     |          |
| 5               | QPSK   | 12 | 0  | 20.00  | 20.26  | 20.02 | 20.02   | 20.26  | 20.8                | 0        |
| 5               | QPSK   | 12 | 7  | 20.03  | 20.30  | 20.05 | 20.14   | 20.34  |                     |          |
| 5               | QPSK   | 12 | 13 | 19.95  | 20.28  | 20.07 | 20.17   | 20.26  |                     |          |
| 5               | QPSK   | 25 | 0  | 19.94  | 20.29  | 20.00 | 20.06   | 20.24  | 20.8                | 0        |
| 5               | 16QAM  | 1  | 0  | 19.87  | 20.11  | 19.94 | 19.98   | 20.01  |                     |          |
| 5               | 16QAM  | 1  | 12 | 19.75  | 20.13  | 19.85 | 20.34   | 20.12  |                     |          |
| 5               | 16QAM  | 1  | 24 | 19.91  | 20.15  | 19.93 | 20.03   | 20.11  | 20.8                | 0        |
| 5               | 16QAM  | 12 | 0  | 19.94  | 20.28  | 20.09 | 20.11   | 20.28  |                     |          |
| 5               | 16QAM  | 12 | 7  | 19.91  | 20.33  | 20.09 | 20.11   | 20.30  |                     |          |
| 5               | 16QAM  | 12 | 13 | 20.03  | 20.30  | 20.08 | 20.14   | 20.27  | 20.8                | 0        |
| 5               | 16QAM  | 25 | 0  | 20.08  | 20.29  | 20.09 | 20.19   | 20.27  |                     |          |
| 5               | 64QAM  | 1  | 0  | 19.71  | 20.23  | 20.08 | 20.11   | 20.24  |                     |          |
| 5               | 64QAM  | 1  | 12 | 19.85  | 20.33  | 20.07 | 20.18   | 20.19  | 20.8                | 0        |
| 5               | 64QAM  | 1  | 24 | 20.02  | 20.34  | 20.07 | 20.20   | 20.18  |                     |          |



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|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 19.98 | 20.20 | 19.99 | 20.05 | 20.16 | 20.8 | 0 |
| 5 | 64QAM  | 12 | 7  | 19.81 | 20.26 | 20.01 | 20.06 | 20.27 |      |   |
| 5 | 64QAM  | 12 | 13 | 19.86 | 20.24 | 20.09 | 20.12 | 20.20 |      |   |
| 5 | 64QAM  | 25 | 0  | 19.85 | 20.22 | 20.03 | 20.13 | 20.21 |      |   |
| 5 | 256QAM | 1  | 0  | 18.23 | 18.16 | 17.95 | 17.95 | 17.88 | 18.8 | 0 |
| 5 | 256QAM | 1  | 12 | 18.21 | 18.24 | 18.20 | 18.28 | 18.31 |      |   |
| 5 | 256QAM | 1  | 24 | 18.04 | 18.06 | 18.00 | 18.03 | 18.18 |      |   |
| 5 | 256QAM | 12 | 0  | 18.06 | 17.97 | 18.03 | 18.23 | 18.13 |      |   |
| 5 | 256QAM | 12 | 7  | 18.16 | 18.14 | 18.25 | 18.24 | 18.33 | 18.8 | 0 |
| 5 | 256QAM | 12 | 13 | 18.12 | 18.16 | 18.24 | 18.27 | 18.39 |      |   |
| 5 | 256QAM | 25 | 0  | 18.10 | 17.97 | 18.17 | 18.29 | 18.27 |      |   |



## &lt;LTE Band 41 PC2&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.31                 | 22.29                        | 22.10                    | 22.22                         | 22.16                  | 23.3                | 0        |
| 20              | QPSK       | 1       | 49        | 22.33                 | 22.40                        | 22.56                    | 22.38                         | 22.45                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.31                 | 22.33                        | 22.42                    | 22.26                         | 22.39                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.16                 | 22.42                        | 22.42                    | 22.31                         | 22.42                  | 23.3                | 0        |
| 20              | QPSK       | 50      | 24        | 22.47                 | 22.52                        | 22.55                    | 22.43                         | 22.40                  |                     |          |
| 20              | QPSK       | 50      | 50        | 22.33                 | 22.27                        | 22.53                    | 22.27                         | 22.45                  |                     |          |
| 20              | QPSK       | 100     | 0         | 22.37                 | 22.46                        | 22.51                    | 22.39                         | 22.49                  | 23.3                | 0        |
| 20              | 16QAM      | 1       | 0         | 22.03                 | 22.43                        | 22.42                    | 22.30                         | 22.41                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 22.34                 | 22.36                        | 22.48                    | 22.05                         | 22.08                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 22.29                 | 22.35                        | 22.51                    | 22.30                         | 22.02                  | 23.3                | 0        |
| 20              | 16QAM      | 50      | 0         | 22.09                 | 22.19                        | 22.14                    | 22.26                         | 22.30                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 22.24                 | 22.29                        | 22.32                    | 22.40                         | 22.55                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 22.26                 | 22.15                        | 22.29                    | 22.33                         | 22.50                  | 23.3                | 0        |
| 20              | 16QAM      | 100     | 0         | 22.17                 | 22.10                        | 22.09                    | 22.39                         | 22.51                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 21.80                 | 22.01                        | 21.82                    | 21.74                         | 21.64                  | 23.3                | 0        |
| 20              | 64QAM      | 1       | 49        | 22.04                 | 22.01                        | 22.08                    | 22.04                         | 22.01                  |                     |          |
| 20              | 64QAM      | 1       | 99        | 22.06                 | 22.06                        | 22.06                    | 21.69                         | 21.74                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 22.02                 | 22.02                        | 22.11                    | 22.00                         | 21.86                  | 23.3                | 0        |
| 20              | 64QAM      | 50      | 24        | 22.08                 | 22.21                        | 22.25                    | 22.10                         | 21.93                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 22.01                 | 22.07                        | 22.27                    | 22.03                         | 21.94                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 21.92                 | 22.10                        | 22.15                    | 21.95                         | 21.80                  | 21.3                | 0        |
| 20              | 256QAM     | 1       | 0         | 20.41                 | 20.39                        | 20.20                    | 20.32                         | 20.26                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 20.43                 | 20.50                        | 20.53                    | 20.48                         | 20.47                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 20.41                 | 20.43                        | 20.52                    | 20.36                         | 20.49                  | 21.3                | 0        |
| 20              | 256QAM     | 50      | 0         | 20.26                 | 20.52                        | 20.52                    | 20.41                         | 20.52                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 20.45                 | 20.55                        | 20.51                    | 20.53                         | 20.50                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 20.43                 | 20.37                        | 20.50                    | 20.37                         | 20.49                  | 21.3                | 0        |
| 20              | 256QAM     | 100     | 0         | 20.47                 | 20.50                        | 20.49                    | 20.49                         | 20.48                  |                     |          |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 22.19                 | 22.17                        | 21.98                    | 22.11                         | 22.06                  | 23.3                | 0        |
| 15              | QPSK       | 1       | 37        | 22.22                 | 22.28                        | 22.46                    | 22.26                         | 22.35                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.19                 | 22.23                        | 22.30                    | 22.15                         | 22.29                  |                     |          |
| 15              | QPSK       | 36      | 0         | 22.05                 | 22.31                        | 22.32                    | 22.19                         | 22.32                  | 23.3                | 0        |
| 15              | QPSK       | 36      | 20        | 22.36                 | 22.40                        | 22.45                    | 22.33                         | 22.28                  |                     |          |
| 15              | QPSK       | 36      | 39        | 22.22                 | 22.16                        | 22.43                    | 22.17                         | 22.33                  |                     |          |
| 15              | QPSK       | 75      | 0         | 22.27                 | 22.36                        | 22.39                    | 22.27                         | 22.37                  | 23.3                | 0        |
| 15              | 16QAM      | 1       | 0         | 21.93                 | 22.33                        | 22.30                    | 22.19                         | 22.30                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 22.24                 | 22.26                        | 22.37                    | 21.93                         | 21.97                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.19                 | 22.24                        | 22.41                    | 22.20                         | 21.91                  | 23.3                | 0        |
| 15              | 16QAM      | 36      | 0         | 21.98                 | 22.09                        | 22.02                    | 22.14                         | 22.19                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 22.12                 | 22.18                        | 22.22                    | 22.28                         | 22.45                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 22.14                 | 22.03                        | 22.19                    | 22.23                         | 22.40                  | 23.3                | 0        |
| 15              | 16QAM      | 75      | 0         | 22.07                 | 21.99                        | 21.98                    | 22.29                         | 22.39                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 21.68                 | 21.91                        | 21.71                    | 21.62                         | 21.52                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 21.94                 | 21.90                        | 21.96                    | 21.94                         | 21.90                  | 23.3                | 0        |
| 15              | 64QAM      | 1       | 74        | 21.94                 | 21.96                        | 21.95                    | 21.57                         | 21.62                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 21.90                 | 21.91                        | 22.00                    | 21.89                         | 21.75                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 21.97                 | 22.11                        | 22.15                    | 21.98                         | 21.82                  | 23.3                | 0        |
| 15              | 64QAM      | 36      | 39        | 21.89                 | 21.97                        | 22.15                    | 21.91                         | 21.83                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 21.82                 | 22.00                        | 22.04                    | 21.85                         | 21.68                  |                     |          |



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|                 |        |    |    |        |        |       |         |        |                     |          |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 15              | 256QAM | 1  | 0  | 20.40  | 20.36  | 20.11 | 20.27   | 20.20  | 21.3                | 0        |
| 15              | 256QAM | 1  | 37 | 20.42  | 20.45  | 20.47 | 20.41   | 20.41  |                     |          |
| 15              | 256QAM | 1  | 74 | 20.38  | 20.36  | 20.44 | 20.36   | 20.43  |                     |          |
| 15              | 256QAM | 36 | 0  | 20.18  | 20.50  | 20.52 | 20.38   | 20.51  | 21.3                | 0        |
| 15              | 256QAM | 36 | 20 | 20.44  | 20.50  | 20.47 | 20.45   | 20.42  |                     |          |
| 15              | 256QAM | 36 | 39 | 20.39  | 20.37  | 20.50 | 20.35   | 20.39  |                     |          |
| 15              | 256QAM | 75 | 0  | 20.44  | 20.43  | 20.45 | 20.39   | 20.46  | Tune-up limit (dBm) | MPR (dB) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                     |          |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | 23.3                | 0        |
| 10              | QPSK   | 1  | 0  | 22.21  | 22.19  | 21.98 | 22.11   | 22.06  |                     |          |
| 10              | QPSK   | 1  | 25 | 22.21  | 22.30  | 22.45 | 22.28   | 22.33  |                     |          |
| 10              | QPSK   | 1  | 49 | 22.19  | 22.21  | 22.30 | 22.15   | 22.27  | 23.3                | 0        |
| 10              | QPSK   | 25 | 0  | 22.06  | 22.30  | 22.30 | 22.21   | 22.31  |                     |          |
| 10              | QPSK   | 25 | 12 | 22.37  | 22.41  | 22.44 | 22.32   | 22.29  |                     |          |
| 10              | QPSK   | 25 | 25 | 22.22  | 22.16  | 22.41 | 22.16   | 22.33  | 23.3                | 0        |
| 10              | QPSK   | 50 | 0  | 22.26  | 22.35  | 22.39 | 22.27   | 22.39  |                     |          |
| 10              | 16QAM  | 1  | 0  | 21.91  | 22.31  | 22.30 | 22.18   | 22.30  |                     |          |
| 10              | 16QAM  | 1  | 25 | 22.23  | 22.26  | 22.36 | 21.95   | 21.97  | 23.3                | 0        |
| 10              | 16QAM  | 1  | 49 | 22.18  | 22.23  | 22.41 | 22.18   | 21.92  |                     |          |
| 10              | 16QAM  | 25 | 0  | 21.97  | 22.08  | 22.04 | 22.16   | 22.18  |                     |          |
| 10              | 16QAM  | 25 | 12 | 22.12  | 22.19  | 22.22 | 22.28   | 22.45  | 23.3                | 0        |
| 10              | 16QAM  | 25 | 25 | 22.14  | 22.05  | 22.17 | 22.22   | 22.39  |                     |          |
| 10              | 16QAM  | 50 | 0  | 22.07  | 21.98  | 21.97 | 22.27   | 22.39  |                     |          |
| 10              | 64QAM  | 1  | 0  | 21.69  | 21.91  | 21.71 | 21.63   | 21.52  | 23.3                | 0        |
| 10              | 64QAM  | 1  | 25 | 21.92  | 21.91  | 21.97 | 21.92   | 21.89  |                     |          |
| 10              | 64QAM  | 1  | 49 | 21.95  | 21.95  | 21.94 | 21.58   | 21.62  |                     |          |
| 10              | 64QAM  | 25 | 0  | 21.91  | 21.91  | 21.99 | 21.89   | 21.74  | 23.3                | 0        |
| 10              | 64QAM  | 25 | 12 | 21.96  | 22.09  | 22.13 | 21.99   | 21.82  |                     |          |
| 10              | 64QAM  | 25 | 25 | 21.90  | 21.95  | 22.17 | 21.91   | 21.84  |                     |          |
| 10              | 64QAM  | 50 | 0  | 21.80  | 21.98  | 22.03 | 21.83   | 21.68  | 21.3                | 0        |
| 10              | 256QAM | 1  | 0  | 20.39  | 20.31  | 20.10 | 20.20   | 20.18  |                     |          |
| 10              | 256QAM | 1  | 25 | 20.40  | 20.40  | 20.38 | 20.35   | 20.38  |                     |          |
| 10              | 256QAM | 1  | 49 | 20.30  | 20.27  | 20.36 | 20.27   | 20.38  | 21.3                | 0        |
| 10              | 256QAM | 25 | 0  | 20.12  | 20.41  | 20.50 | 20.37   | 20.41  |                     |          |
| 10              | 256QAM | 25 | 12 | 20.43  | 20.49  | 20.43 | 20.35   | 20.38  |                     |          |
| 10              | 256QAM | 25 | 25 | 20.39  | 20.31  | 20.44 | 20.34   | 20.38  | Tune-up limit (dBm) | MPR (dB) |
| 10              | 256QAM | 50 | 0  | 20.44  | 20.41  | 20.43 | 20.32   | 20.43  |                     |          |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  |                     |          |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | 23.3                | 0        |
| 5               | QPSK   | 1  | 0  | 22.19  | 22.18  | 22.00 | 22.12   | 22.04  |                     |          |
| 5               | QPSK   | 1  | 12 | 22.23  | 22.28  | 22.45 | 22.26   | 22.33  |                     |          |
| 5               | QPSK   | 1  | 24 | 22.21  | 22.23  | 22.32 | 22.16   | 22.29  | 23.3                | 0        |
| 5               | QPSK   | 12 | 0  | 22.06  | 22.32  | 22.31 | 22.20   | 22.32  |                     |          |
| 5               | QPSK   | 12 | 7  | 22.35  | 22.40  | 22.44 | 22.32   | 22.29  |                     |          |
| 5               | QPSK   | 12 | 13 | 22.21  | 22.15  | 22.41 | 22.16   | 22.33  | 23.3                | 0        |
| 5               | QPSK   | 25 | 0  | 22.25  | 22.35  | 22.41 | 22.28   | 22.37  |                     |          |
| 5               | 16QAM  | 1  | 0  | 21.92  | 22.31  | 22.31 | 22.19   | 22.29  |                     |          |
| 5               | 16QAM  | 1  | 12 | 22.23  | 22.24  | 22.37 | 21.95   | 21.98  | 23.3                | 0        |
| 5               | 16QAM  | 1  | 24 | 22.17  | 22.24  | 22.41 | 22.20   | 21.90  |                     |          |
| 5               | 16QAM  | 12 | 0  | 21.97  | 22.07  | 22.04 | 22.16   | 22.19  |                     |          |
| 5               | 16QAM  | 12 | 7  | 22.14  | 22.17  | 22.22 | 22.28   | 22.43  | 23.3                | 0        |
| 5               | 16QAM  | 12 | 13 | 22.16  | 22.03  | 22.18 | 22.22   | 22.38  |                     |          |
| 5               | 16QAM  | 25 | 0  | 22.07  | 21.98  | 21.99 | 22.28   | 22.40  |                     |          |
| 5               | 64QAM  | 1  | 0  | 21.70  | 21.90  | 21.70 | 21.63   | 21.52  | 23.3                | 0        |
| 5               | 64QAM  | 1  | 12 | 21.93  | 21.91  | 21.98 | 21.92   | 21.89  |                     |          |
| 5               | 64QAM  | 1  | 24 | 21.94  | 21.94  | 21.94 | 21.58   | 21.63  |                     |          |

|   |        |    |    |       |       |       |       |       |      |   |
|---|--------|----|----|-------|-------|-------|-------|-------|------|---|
| 5 | 64QAM  | 12 | 0  | 21.91 | 21.92 | 22.01 | 21.90 | 21.75 | 23.3 | 0 |
| 5 | 64QAM  | 12 | 7  | 21.96 | 22.09 | 22.13 | 22.00 | 21.81 |      |   |
| 5 | 64QAM  | 12 | 13 | 21.91 | 21.96 | 22.16 | 21.91 | 21.84 |      |   |
| 5 | 64QAM  | 25 | 0  | 21.82 | 21.99 | 22.04 | 21.83 | 21.68 |      |   |
| 5 | 256QAM | 1  | 0  | 20.39 | 20.21 | 20.04 | 20.15 | 20.17 | 21.3 | 0 |
| 5 | 256QAM | 1  | 12 | 20.35 | 20.34 | 20.33 | 20.25 | 20.35 |      |   |
| 5 | 256QAM | 1  | 24 | 20.22 | 20.17 | 20.35 | 20.17 | 20.30 |      |   |
| 5 | 256QAM | 12 | 0  | 20.06 | 20.41 | 20.49 | 20.27 | 20.33 | 21.3 | 0 |
| 5 | 256QAM | 12 | 7  | 20.33 | 20.43 | 20.42 | 20.32 | 20.34 |      |   |
| 5 | 256QAM | 12 | 13 | 20.29 | 20.22 | 20.44 | 20.29 | 20.35 |      |   |
| 5 | 256QAM | 25 | 0  | 20.43 | 20.35 | 20.39 | 20.32 | 20.37 |      |   |



## UAT Reduced Power Mode for Sensor On

## &lt;LTE Band 48&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | 19.8                |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 18.83                 | 19.20                        | 19.16                         | 18.95                  | 19.8                |
| 20              | QPSK       | 1       | 49        | 19.12                 | 19.27                        | 19.21                         | 19.14                  |                     |
| 20              | QPSK       | 1       | 99        | 18.71                 | 19.04                        | 19.08                         | 18.95                  |                     |
| 20              | QPSK       | 50      | 0         | 19.07                 | 19.16                        | 19.11                         | 19.12                  | 19.8                |
| 20              | QPSK       | 50      | 24        | 19.20                 | 19.26                        | 19.24                         | 19.15                  |                     |
| 20              | QPSK       | 50      | 50        | 19.05                 | 19.21                        | 19.20                         | 19.09                  |                     |
| 20              | QPSK       | 100     | 0         | 19.09                 | 19.23                        | 19.11                         | 19.13                  | 19.8                |
| 20              | 16QAM      | 1       | 0         | 18.99                 | 18.90                        | 18.94                         | 18.83                  |                     |
| 20              | 16QAM      | 1       | 49        | 19.23                 | 19.03                        | 19.24                         | 19.09                  |                     |
| 20              | 16QAM      | 1       | 99        | 18.94                 | 18.92                        | 19.21                         | 18.90                  | 19.8                |
| 20              | 16QAM      | 50      | 0         | 18.93                 | 18.83                        | 19.06                         | 18.80                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.06                 | 18.93                        | 19.22                         | 18.92                  |                     |
| 20              | 16QAM      | 50      | 50        | 18.85                 | 18.87                        | 19.25                         | 18.87                  | 19.8                |
| 20              | 16QAM      | 100     | 0         | 18.96                 | 18.92                        | 19.13                         | 18.83                  |                     |
| 20              | 64QAM      | 1       | 0         | 18.97                 | 18.85                        | 18.96                         | 18.96                  |                     |
| 20              | 64QAM      | 1       | 49        | 19.23                 | 19.11                        | 19.15                         | 19.19                  | 19.8                |
| 20              | 64QAM      | 1       | 99        | 18.88                 | 18.91                        | 19.20                         | 18.99                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.98                 | 18.90                        | 19.12                         | 18.95                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.07                 | 18.95                        | 19.09                         | 19.04                  | 19.8                |
| 20              | 64QAM      | 50      | 50        | 18.95                 | 18.89                        | 19.12                         | 19.03                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.01                 | 18.91                        | 19.17                         | 18.94                  |                     |
| 20              | 256QAM     | 1       | 0         | 17.33                 | 17.60                        | 17.56                         | 17.35                  | 18.8                |
| 20              | 256QAM     | 1       | 49        | 17.52                 | 17.67                        | 17.61                         | 17.54                  |                     |
| 20              | 256QAM     | 1       | 99        | 17.25                 | 17.44                        | 17.48                         | 17.35                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.47                 | 17.56                        | 17.51                         | 17.52                  | 18.8                |
| 20              | 256QAM     | 50      | 24        | 17.60                 | 17.66                        | 17.64                         | 17.55                  |                     |
| 20              | 256QAM     | 50      | 50        | 17.45                 | 17.61                        | 17.60                         | 17.49                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.49                 | 17.63                        | 17.51                         | 17.53                  | 18.8                |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 | Tune-up limit (dBm) |
| 15              | QPSK       | 1       | 0         | 18.80                 | 19.17                        | 19.14                         | 18.94                  | 19.8                |
| 15              | QPSK       | 1       | 37        | 19.01                 | 19.23                        | 19.20                         | 19.13                  |                     |
| 15              | QPSK       | 1       | 74        | 18.70                 | 19.05                        | 19.04                         | 18.92                  |                     |
| 15              | QPSK       | 36      | 0         | 19.05                 | 19.14                        | 19.10                         | 19.09                  | 19.8                |
| 15              | QPSK       | 36      | 20        | 19.18                 | 19.25                        | 19.21                         | 19.13                  |                     |
| 15              | QPSK       | 36      | 39        | 19.03                 | 19.19                        | 19.17                         | 19.07                  |                     |
| 15              | QPSK       | 75      | 0         | 19.00                 | 19.22                        | 19.08                         | 19.10                  | 19.8                |
| 15              | 16QAM      | 1       | 0         | 18.97                 | 18.86                        | 18.92                         | 18.82                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.19                 | 19.02                        | 19.22                         | 19.09                  |                     |
| 15              | 16QAM      | 1       | 74        | 18.88                 | 18.91                        | 19.18                         | 18.86                  | 19.8                |
| 15              | 16QAM      | 36      | 0         | 18.87                 | 18.84                        | 19.06                         | 18.77                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.03                 | 18.90                        | 19.23                         | 18.91                  |                     |
| 15              | 16QAM      | 36      | 39        | 18.81                 | 18.83                        | 19.22                         | 18.85                  | 19.8                |
| 15              | 16QAM      | 75      | 0         | 18.92                 | 18.88                        | 19.10                         | 18.81                  |                     |
| 15              | 64QAM      | 1       | 0         | 18.96                 | 18.85                        | 18.94                         | 18.96                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.18                 | 19.07                        | 19.16                         | 19.17                  | 19.8                |
| 15              | 64QAM      | 1       | 74        | 18.90                 | 18.90                        | 19.16                         | 18.95                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.94                 | 18.86                        | 19.06                         | 18.91                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.04                 | 18.94                        | 19.06                         | 19.06                  | 19.8                |
| 15              | 64QAM      | 36      | 39        | 18.93                 | 18.88                        | 19.08                         | 18.99                  |                     |



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|-----------------|--------|----|----|--------|--------|--------|--------|---------------------|
| 15              | 64QAM  | 75 | 0  | 18.94  | 18.92  | 19.17  | 18.93  |                     |
| 15              | 256QAM | 1  | 0  | 17.31  | 17.58  | 17.54  | 17.30  | 18.8                |
| 15              | 256QAM | 1  | 37 | 17.44  | 17.67  | 17.51  | 17.44  |                     |
| 15              | 256QAM | 1  | 74 | 17.19  | 17.37  | 17.42  | 17.33  |                     |
| 15              | 256QAM | 36 | 0  | 17.42  | 17.51  | 17.47  | 17.42  | 18.8                |
| 15              | 256QAM | 36 | 20 | 17.52  | 17.63  | 17.59  | 17.51  |                     |
| 15              | 256QAM | 36 | 39 | 17.38  | 17.53  | 17.54  | 17.47  |                     |
| 15              | 256QAM | 75 | 0  | 17.44  | 17.53  | 17.42  | 17.50  |                     |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                     |
| 10              | QPSK   | 1  | 0  | 18.81  | 19.15  | 19.15  | 18.93  | 19.8                |
| 10              | QPSK   | 1  | 25 | 19.01  | 19.25  | 19.18  | 19.14  |                     |
| 10              | QPSK   | 1  | 49 | 18.69  | 19.01  | 19.06  | 18.96  |                     |
| 10              | QPSK   | 25 | 0  | 19.05  | 19.15  | 19.10  | 19.11  | 19.8                |
| 10              | QPSK   | 25 | 12 | 19.19  | 19.27  | 19.18  | 19.11  |                     |
| 10              | QPSK   | 25 | 25 | 19.04  | 19.22  | 19.19  | 19.05  |                     |
| 10              | QPSK   | 50 | 0  | 18.99  | 19.23  | 19.09  | 19.12  |                     |
| 10              | 16QAM  | 1  | 0  | 19.00  | 18.84  | 18.94  | 18.82  | 19.8                |
| 10              | 16QAM  | 1  | 25 | 19.21  | 19.01  | 19.20  | 19.08  |                     |
| 10              | 16QAM  | 1  | 49 | 18.90  | 18.88  | 19.20  | 18.87  |                     |
| 10              | 16QAM  | 25 | 0  | 18.88  | 18.82  | 19.02  | 18.78  | 19.8                |
| 10              | 16QAM  | 25 | 12 | 19.05  | 18.91  | 19.20  | 18.92  |                     |
| 10              | 16QAM  | 25 | 25 | 18.85  | 18.84  | 19.19  | 18.82  |                     |
| 10              | 16QAM  | 50 | 0  | 18.93  | 18.89  | 19.11  | 18.82  |                     |
| 10              | 64QAM  | 1  | 0  | 18.95  | 18.82  | 18.91  | 18.95  | 19.8                |
| 10              | 64QAM  | 1  | 25 | 19.17  | 19.11  | 19.15  | 19.18  |                     |
| 10              | 64QAM  | 1  | 49 | 18.89  | 18.87  | 19.14  | 18.96  |                     |
| 10              | 64QAM  | 25 | 0  | 18.97  | 18.84  | 19.06  | 18.91  | 19.8                |
| 10              | 64QAM  | 25 | 12 | 19.03  | 18.95  | 19.05  | 19.06  |                     |
| 10              | 64QAM  | 25 | 25 | 18.90  | 18.88  | 19.10  | 19.02  |                     |
| 10              | 64QAM  | 50 | 0  | 18.96  | 18.89  | 19.16  | 18.90  |                     |
| 10              | 256QAM | 1  | 0  | 17.30  | 17.48  | 17.54  | 17.24  | 18.8                |
| 10              | 256QAM | 1  | 25 | 17.42  | 17.57  | 17.50  | 17.36  |                     |
| 10              | 256QAM | 1  | 49 | 17.19  | 17.27  | 17.33  | 17.26  |                     |
| 10              | 256QAM | 25 | 0  | 17.40  | 17.42  | 17.45  | 17.35  | 18.8                |
| 10              | 256QAM | 25 | 12 | 17.48  | 17.53  | 17.51  | 17.51  |                     |
| 10              | 256QAM | 25 | 25 | 17.33  | 17.44  | 17.48  | 17.40  |                     |
| 10              | 256QAM | 50 | 0  | 17.42  | 17.52  | 17.38  | 17.48  |                     |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                     |
| 5               | QPSK   | 1  | 0  | 18.81  | 19.17  | 19.13  | 18.93  | 19.8                |
| 5               | QPSK   | 1  | 12 | 19.00  | 19.26  | 19.16  | 19.12  |                     |
| 5               | QPSK   | 1  | 24 | 18.69  | 19.03  | 19.04  | 18.96  |                     |
| 5               | QPSK   | 12 | 0  | 19.03  | 19.14  | 19.12  | 19.14  | 19.8                |
| 5               | QPSK   | 12 | 7  | 19.18  | 19.24  | 19.20  | 19.12  |                     |
| 5               | QPSK   | 12 | 13 | 19.05  | 19.19  | 19.18  | 19.09  |                     |
| 5               | QPSK   | 25 | 0  | 18.99  | 19.21  | 19.07  | 19.09  |                     |
| 5               | 16QAM  | 1  | 0  | 18.97  | 18.87  | 18.92  | 18.81  | 19.8                |
| 5               | 16QAM  | 1  | 12 | 19.20  | 18.98  | 19.23  | 19.07  |                     |
| 5               | 16QAM  | 1  | 24 | 18.91  | 18.93  | 19.21  | 18.87  |                     |
| 5               | 16QAM  | 12 | 0  | 18.91  | 18.83  | 19.06  | 18.76  | 19.8                |
| 5               | 16QAM  | 12 | 7  | 19.06  | 18.91  | 19.19  | 18.93  |                     |
| 5               | 16QAM  | 12 | 13 | 18.83  | 18.82  | 19.18  | 18.86  |                     |
| 5               | 16QAM  | 25 | 0  | 18.93  | 18.91  | 19.11  | 18.80  |                     |
| 5               | 64QAM  | 1  | 0  | 18.93  | 18.82  | 18.91  | 18.93  | 19.8                |
| 5               | 64QAM  | 1  | 12 | 19.19  | 19.09  | 19.10  | 19.18  |                     |

|   |        |    |    |       |       |       |       |      |
|---|--------|----|----|-------|-------|-------|-------|------|
| 5 | 64QAM  | 1  | 24 | 18.88 | 18.88 | 19.15 | 18.98 |      |
| 5 | 64QAM  | 12 | 0  | 18.96 | 18.86 | 19.09 | 18.92 | 19.8 |
| 5 | 64QAM  | 12 | 7  | 19.02 | 18.94 | 19.03 | 19.01 |      |
| 5 | 64QAM  | 12 | 13 | 18.95 | 18.89 | 19.08 | 19.04 |      |
| 5 | 64QAM  | 25 | 0  | 18.98 | 18.93 | 19.16 | 18.94 |      |
| 5 | 256QAM | 1  | 0  | 17.26 | 17.47 | 17.45 | 17.17 | 18.8 |
| 5 | 256QAM | 1  | 12 | 17.38 | 17.49 | 17.50 | 17.27 |      |
| 5 | 256QAM | 1  | 24 | 17.14 | 17.19 | 17.29 | 17.21 |      |
| 5 | 256QAM | 12 | 0  | 17.38 | 17.34 | 17.43 | 17.25 | 18.8 |
| 5 | 256QAM | 12 | 7  | 17.47 | 17.51 | 17.50 | 17.50 |      |
| 5 | 256QAM | 12 | 13 | 17.27 | 17.37 | 17.45 | 17.34 |      |
| 5 | 256QAM | 25 | 0  | 17.32 | 17.49 | 17.34 | 17.41 |      |

**<LTE Carrier Aggregation combinations>****General Note:**

1. This device supports Carrier Aggregation on downlink for inter and intra band and uplink CA. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.
3. Only LTE Band 29A is limited to Scell.

| 2CC Downlink Carrier Aggregation |             |                 |              |                                 | 3CC Downlink Carrier Aggregation |               |                                             |              |                                 |
|----------------------------------|-------------|-----------------|--------------|---------------------------------|----------------------------------|---------------|---------------------------------------------|--------------|---------------------------------|
| Number                           | Combination | 4X4 MIMO        | Restriction  | Covered by Measurement Superset | Number                           | Combination   | 4X4 MIMO                                    | Restriction  | Covered by Measurement Superset |
| 1                                | CA_2A-4A    | 2A,4A,2A-4A     |              | 3CC-7                           | 1                                | CA_2A-2A-12A  | 2A, 2A-2A                                   |              | 4CC-6                           |
| 2                                | CA_2A-5A    | 2A              |              | 3CC-14                          | 2                                | CA_2A-2A-13A  | 2A,2A-2A                                    |              | 4CC-7                           |
| 3                                | CA_2A-7A    | 2A,7A           |              | 3CC-26                          | 3                                | CA_2A-2A-4A   | 2A,4A,2A-2A,2A-4A,2A-2A-4A                  |              | 4CC-12                          |
| 4                                | CA_2A-12A   | 2A              |              | 3CC-17                          | 4                                | CA_2A-2A-5A   | 2A,2A-2A                                    |              | 4CC-9                           |
| 5                                | CA_2A-13A   | 2A              |              | 3CC-18                          | 5                                | CA_2A-2A-66A  | 2A,66A, 2A-2A,2A-66A,2A-2A-66A              |              | 4CC-10                          |
| 6                                | CA_2A-29A   | 2A              | B29 SCC Only | 3CC-19                          | 6                                | CA_2A-2A-71A  | 2A, 2A-2A                                   |              | 4CC-12                          |
| 7                                | CA_2A-30A   | 2A              |              | 3CC-14                          | 7                                | CA_2A-4A-12A  | 2A,4A,2A-4A                                 |              | 4CC-25                          |
| 8                                | CA_2A-46A   | 2A              | B46 SCC Only | 3CC-21                          | 8                                | CA_2A-4A-13A  | 2A,4A,2A-4A                                 |              |                                 |
| 9                                | CA_2A-48A   | 2A              |              | 3CC-22                          | 9                                | CA_2A-4A-29A  | 2A,4A,2A-4A                                 |              |                                 |
| 10                               | CA_2A-66A   | 2A,66A,2A-66A   |              | 3CC-24                          | 10                               | CA_2A-4A-4A   | 2A,4A,2A-4A,4A-4A,2A-4A-4A                  |              |                                 |
| 11                               | CA_2A-71A   | 2A              |              | 3CC-25                          | 11                               | CA_2A-4A-5A   | 2A,4A,2A-4A                                 |              |                                 |
| 12                               | CA_4A-5A    | 4A              |              | 3CC-37                          | 12                               | CA_2A-4A-71A  | 2A,4A,2A-4A                                 |              | 4CC-12                          |
| 13                               | CA_4A-7A    | 4A,7A           |              | 3CC-38                          | 13                               | CA_2A-4A-7A   | 2A,4A,7A                                    |              |                                 |
| 14                               | CA_4A-12A   | 4A              |              | 3CC-40                          | 14                               | CA_2A-5A-30A  | 2A                                          |              |                                 |
| 15                               | CA_4A-13A   | 4A              |              | 3CC-33                          | 15                               | CA_2A-5A-66A  | 2A,66A,2A-66A                               |              | 4CC-20                          |
| 16                               | CA_4A-29A   | 4A              | B29 SCC Only | 3CC-41                          | 16                               | CA_2A-12A-30A | 2A                                          |              |                                 |
| 17                               | CA_4A-30A   | 4A              |              | 3CC-41                          | 17                               | CA_2A-12A-66A | 2A,66A,2A-66A                               |              | 4CC-6                           |
| 18                               | CA_4A-46A   | 4A              | B46 SCC Only | 3CC-42                          | 18                               | CA_2A-13A-66A | 2A,66A,2A-66A                               |              | 4CC-5                           |
| 19                               | CA_4A-71A   | 4A              |              | 3CC-35                          | 19                               | CA_2A-29A-30A | 2A                                          | B29 SCC Only |                                 |
| 20                               | CA_5A-7A    |                 |              |                                 | 20                               | CA_2A-46A-46A | 2A                                          | B46 SCC Only | 4CC-15                          |
| 21                               | CA_5A-30A   |                 |              | 3CC-44                          | 21                               | CA_2A-46A-66A | 2A,66A,2A-66A                               |              | 4CC-16                          |
| 22                               | CA_5A-48A   | 48A             |              |                                 | 22                               | CA_2A-48A-48A | 2A,48A,2A-48A,48A-48A,2A-48A-48A            |              |                                 |
| 23                               | CA_5A-66A   | 66A             |              | 3CC-45                          | 23                               | CA_2A-48A-66A | 2A,48A,66A,2A-48A,2A-66A,48A-66A,2A-48A-66A |              |                                 |
| 24                               | CA_7A-12A   | 7A              |              | 3CC-38                          | 24                               | CA_2A-66A-66A | 2A,66A,2A-66A,66A-66A,2A-66A-66A            |              | 4CC-21                          |
| 25                               | CA_7A-46A   | 7A              | B46 SCC Only | 3CC-47                          | 25                               | CA_2A-66A-71A | 2A,66A,2A-66A                               |              | 4CC-21                          |
| 26                               | CA_12A-30A  |                 |              | 3CC-48                          | 26                               | CA_2A-7A-7A   | 2A,7A                                       |              |                                 |
| 27                               | CA_12A-66A  | 66A             |              | 3CC-49                          | 27                               | CA_2A-46A-48A | 2A, 48A, 2A-48A                             |              | 4CC-26                          |
| 28                               | CA_13A-66A  | 66A             |              | 3CC-51                          | 28                               | CA_2A-46C     | 2A                                          |              | 4CC-26                          |
| 29                               | CA_25A-26A  | 25A             |              | 3CC-52                          | 29                               | CA_2A-48C     | 2A,48C,2A-48C                               |              |                                 |
| 30                               | CA_25A-41A  | 25A,41A,25A-41A |              | 3CC-53                          | 30                               | CA_2A-66C     | 2A,66C,2A-66C                               |              | 4CC-2                           |
| 31                               | CA_25A-46A  | 25A             | B46 SCC Only | 3CC-54                          | 31                               | CA_2C-66A     | 2C,66A,2C-66A                               |              | 4CC-24                          |
| 32                               | CA_26A-41A  | 41A             |              |                                 | 32                               | CA_4A-4A-12A  | 4A,4A-4A                                    |              |                                 |
| 33                               | CA_29A-30A  |                 | B29 SCC Only | 3CC-41                          | 33                               | CA_4A-4A-13A  | 4A,4A-4A                                    |              |                                 |
| 34                               | CA_30A-66A  | 66A             |              | 3CC-44                          | 34                               | CA_4A-4A-5A   | 4A,4A-4A                                    |              |                                 |
| 35                               | CA_46A-66A  | 66A             | B46 SCC Only | 3CC-55                          | 35                               | CA_4A-4A-71A  | 4A,4A-4A                                    |              |                                 |
| 36                               | CA_48A-66A  | 66A,48A,48A-66A |              | 3CC-56                          | 36                               | CA_4A-4A-7A   | 4A,7A                                       |              |                                 |
| 37                               | CA_66A-71A  | 66A             |              | 3CC-60                          | 37                               | CA_4A-5A-30A  | 4A                                          |              |                                 |
| 38                               | CA_2C       | 2C,2A           |              |                                 | 38                               | CA_4A-7A-12A  | 4A,7A                                       |              |                                 |
| 39                               | CA_5B       |                 |              |                                 | 39                               | CA_4A-7A-7A   | 4A,7A                                       |              |                                 |
| 40                               | CA_5C       |                 |              |                                 | 40                               | CA_4A-12A-30A | 4A                                          |              |                                 |
| 41                               | CA_7C       | 7C              |              |                                 | 41                               | CA_4A-29A-30A | 4A                                          |              |                                 |
| 42                               | CA_38C      |                 |              |                                 | 42                               | CA_4A-46A-46A | 4A                                          |              | 4CC-27                          |
| 43                               | CA_41C      | 41C,41A         |              | 3CC-63                          | 43                               | CA_4A-46C     | 4A                                          |              | 4CC-28                          |
| 44                               | CA_48C      | 48C,48A         |              | 3CC-64                          | 44                               | CA_5A-30A-66A | 66A                                         |              |                                 |



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| 45 | CA_66B     | 66B         |  |        | 45 | CA_5A-66A-66A  | 66A,66A-66A                    |  | 4CC-18 |
| 46 | CA_66C     | 66C,66A     |  |        | 46 | CA_5A-66C      | 66C                            |  | 4CC-20 |
| 47 | CA_2A-2A   | 2A,2A-2A    |  |        | 47 | CA_7A-46C      | 7A                             |  |        |
| 48 | CA_4A-4A   | 4A,4A-4A    |  |        | 48 | CA_12A-30A-66A | 66A                            |  |        |
| 49 | CA_5A-5A   |             |  |        | 49 | CA_12A-66A-66A | 66A,66A-66A                    |  | 4CC-1  |
| 50 | CA_7A-7A   | 7A,7A-7A    |  |        | 50 | CA_12A-66C     | 66C,66A                        |  | 4CC-2  |
| 51 | CA_25A-25A | 25A,25A-25A |  |        | 51 | CA_13A-66A-66A | 66A,66A-66A                    |  | 4CC-3  |
| 52 | CA_41A-41A | 41A,41A-41A |  | 3CC-65 | 52 | CA_25A-25A-26A | 25A,25A-25A                    |  |        |
| 53 | CA_48A-48A | 48A,48A-48A |  | 3CC-66 | 53 | CA_25A-41C     | 25A,41C,25A-41C                |  | 4CC-29 |
| 54 | CA_66A-66A | 66A,66A-66A |  | 3CC-67 | 54 | CA_25A-46C     | 25A                            |  | 4CC-30 |
|    |            |             |  |        | 55 | CA_46C-66A     | 66A                            |  | 4CC-36 |
|    |            |             |  |        | 56 | CA_48A-48A-66A | 48A, 66A, 48A-66A, 48A-48A-66A |  |        |
|    |            |             |  |        | 57 | CA_48C-66A     | B48C,B66A,B48C-66A,48A,48A-66A |  |        |
|    |            |             |  |        | 58 | CA_13A-66C     | 66C,66A                        |  | 4CC-5  |
|    |            |             |  |        | 59 | CA_66A-46A-46A | 66A                            |  | 4CC-31 |
|    |            |             |  |        | 60 | CA_66A-66A-71A | 66A,66A-66A                    |  | 4CC-21 |
|    |            |             |  |        | 61 | CA_66C-71A     | 66C                            |  | 4CC-22 |
|    |            |             |  |        | 62 | CA_46A-48A-66A | 48A, 66A, 48A-66A              |  | 4CC-34 |
|    |            |             |  |        | 63 | CA_41D         | 41D,41A,41C                    |  | 4CC-37 |
|    |            |             |  |        | 64 | CA_48D         | 48D                            |  | 4CC-38 |
|    |            |             |  |        | 65 | CA_41A-41C     | 41A,41C,41A-41C                |  | 4CC-39 |
|    |            |             |  |        | 66 | CA_48C-48A     | 48A,48C,48C-48A                |  |        |
|    |            |             |  |        | 67 | CA_66A-66C     | 66A,66C,66A-66C,66A-66A        |  |        |

| 4CC Downlink Carrier Aggregation |                   |                                          |             |                                 | 5CC Downlink Carrier Aggregation |                   |                 |             |                                 |
|----------------------------------|-------------------|------------------------------------------|-------------|---------------------------------|----------------------------------|-------------------|-----------------|-------------|---------------------------------|
| Number                           | Combination       | 4X4 MIMO                                 | Restriction | Covered by Measurement Superset | Number                           | Combination       | 4X4 MIMO        | Restriction | Covered by Measurement Superset |
| 1                                | CA_2A-12A-66A-66A | 2A,66A,2A-66A,66A-66A,2A-66A-66A         |             |                                 | 1                                | CA_2A-2A-46D      | 2A,2A-2A        |             |                                 |
| 2                                | CA_2A-12A-66C     | 2A,66C,2A-66C                            |             |                                 | 2                                | CA_2A-46A-46C-66A | 2A,66A,2A-66A   |             |                                 |
| 3                                | CA_2A-13A-66A-66A | 2A,66A,2A-66A,66A-66A,2A-66A-66A         |             |                                 | 3                                | CA_2A-46A-46D     | 2A              |             |                                 |
| 4                                | CA_2A-13A-66B     | 2A,66B,2A-66B                            |             |                                 | 4                                | CA_2A-46D-66A     | 2A,66A,2A-66A   |             |                                 |
| 5                                | CA_2A-13A-66C     | 2A,66C,2A-66C                            |             |                                 | 5                                | CA_2A-46E         | 2A              |             |                                 |
| 6                                | CA_2A-2A-12A-66A  | 2A,66A,2A-2A,2A-66A,66A-66A              |             |                                 | 6                                | CA_46A-46D-66A    | 66A             |             |                                 |
| 7                                | CA_2A-2A-13A-66A  | 2A,66A,2A-2A,2A-66A,2A-2A-66A            |             |                                 | 7                                | CA_46E-66A        | 66A             |             |                                 |
| 8                                | CA_2A-2A-46C      | 2A,2A-2A                                 |             | 5CC-1                           | 8                                | CA_48E-66A        | 48E,66A,48E-66A |             |                                 |
| 9                                | CA_2A-2A-5A-66A   | 2A,66A,2A-2A,2A-66A,2A-2A-66A            |             |                                 | 9                                | CA_4A-46A-46D     | 4A              |             |                                 |
| 10                               | CA_2A-2A-66A-66A  | 2A,66A,2A-2A,2A-66A,2A-2A-66A,2A-66A-66A |             |                                 | 10                               | CA_41C-41D        | 41C,41D,41C-41D |             |                                 |
| 11                               | CA_2A-2A-66A-71A  | 2A,66A,2A-2A,2A-66A,2A-2A-66A            |             |                                 |                                  |                   |                 |             |                                 |
| 12                               | CA_2A-2A-4A-71A   | 2A, 4A, 2A-2A, 2A-4A, 2A-2A-4A           |             |                                 |                                  |                   |                 |             |                                 |
| 13                               | CA_2A-2A-66C      | 2A, 66C, 2A-2A, 2A-66C, 2A-2A-66C        |             |                                 |                                  |                   |                 |             |                                 |
| 14                               | CA_2A-46A-46A-66A | 2A,66A,2A-66A                            |             | 5CC-2                           |                                  |                   |                 |             |                                 |
| 15                               | CA_2A-46A-46C     | 2A                                       |             | 5CC-2                           |                                  |                   |                 |             |                                 |
| 16                               | CA_2A-46C-66A     | 2A,66A,2A-66A                            |             | 5CC-4                           |                                  |                   |                 |             |                                 |
| 17                               | CA_2A-46D         | 2A                                       |             | 5CC-4                           |                                  |                   |                 |             |                                 |
| 18                               | CA_2A-5A-66A-66A  | 2A,66A,2A-66A,66A-66A,2A-66A-66A         |             |                                 |                                  |                   |                 |             |                                 |
| 19                               | CA_2A-5A-66B      | 2A,66B,2A-66B                            |             |                                 |                                  |                   |                 |             |                                 |
| 20                               | CA_2A-5A-66C      | 2A,66C,2A-66C                            |             |                                 |                                  |                   |                 |             |                                 |
| 21                               | CA_2A-66A-66A-71A | 2A,66A,2A-66A,66A-66A,2A-66A-66A         |             |                                 |                                  |                   |                 |             |                                 |
| 22                               | CA_2A-66C-71A     | 2A,66C,2A-66C                            |             |                                 |                                  |                   |                 |             |                                 |
| 23                               | CA_2A-46A-48C     | 2A, 48A, 2A-48A                          |             |                                 |                                  |                   |                 |             |                                 |
| 24                               | CA_2C-66A-66A     | 2C,66A,2C-66A,2C-66A-66A                 |             |                                 |                                  |                   |                 |             |                                 |
| 25                               | CA_2A-2A-4A-12A   | 2A, 4A, 2A-2A, 2A-4A,2A-2A-4A            |             |                                 |                                  |                   |                 |             |                                 |
| 26                               | CA_2A-46C-48A     | 2A, 48C, 2A-48C                          |             |                                 |                                  |                   |                 |             |                                 |
| 27                               | CA_4A-46A-46C     | 4A                                       |             | 5CC-9                           |                                  |                   |                 |             |                                 |
| 28                               | CA_4A-46D         | 4A                                       |             |                                 |                                  |                   |                 |             |                                 |
| 29                               | CA_25A-41D        | 25A                                      |             |                                 |                                  |                   |                 |             |                                 |



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|    |                |                   |  |        |  |  |  |  |  |
|----|----------------|-------------------|--|--------|--|--|--|--|--|
| 30 | CA_25A-46D     | 25A               |  |        |  |  |  |  |  |
| 31 | CA_46A-46C-66A | 66A               |  |        |  |  |  |  |  |
| 32 | CA_46D-66A     | 66A               |  |        |  |  |  |  |  |
| 33 | CA_46C-48A-66A | 48A, 66A, 48A-66A |  |        |  |  |  |  |  |
| 34 | CA_46A-48C-66A | 48C, 66A, 48C-66A |  |        |  |  |  |  |  |
| 35 | CA_46D-48A     | 48A               |  |        |  |  |  |  |  |
| 36 | CA_48D-66A     | 66A , 48D-66A     |  |        |  |  |  |  |  |
| 37 | CA_41E         | 41E               |  |        |  |  |  |  |  |
| 38 | CA_48E         | 48E               |  |        |  |  |  |  |  |
| 39 | CA_41A-41D     | 41A,41A-41D       |  | 5CC-10 |  |  |  |  |  |
| 40 | CA_41C-41C     | 41C,41C-41C       |  | 5CC-10 |  |  |  |  |  |

| 2CC Uplink Carrier Aggregation |             |          |             |                      |
|--------------------------------|-------------|----------|-------------|----------------------|
| Number                         | Combination | 4X4 MIMO | Restriction | Covered by           |
|                                |             |          |             | Measurement Superset |
| 1                              | 41C         | 41C,41A  |             |                      |
| 2                              | 48C         | 48C,48A  |             |                      |
| 3                              | 66C         | 66C,66A  |             |                      |
| 4                              | 2A-12A      | 2A       |             |                      |
| 5                              | 2A-13A      | 2A       |             |                      |
| 6                              | 4A-12A      | 4A       |             |                      |
| 7                              | 4A-13A      | 4A       |             |                      |
| 8                              | 12A-66A     | 66A      |             |                      |
| 9                              | 13A-66A     | 66A      |             |                      |

## <LTE Downlink Carrier Aggregation>

### General Note:

- According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

## <Two Carrier power verification>

### <UAT>

| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        | SCC          |          |          |                | Power      |                        |                       |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band |                | CA_5A-7A               | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 7        | 20       | 2655           | 3100       | 22.63                  | 22.68                 |
|            |                | CA_5A-48A              | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 48       | 20       | 3625           | 55990      | 22.58                  | 22.68                 |
|            |                | CA_26A-41A             | 26       | 15       | 831.5          | 26865      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 22.80                  | 22.81                 |
| Intra-Band | Non-Contiguous | CA_2A-2A               | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1987.5         | 1175       | 21.08                  | 21.09                 |
|            |                | CA_4A-4A               | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 4        | 5        | 2152.5         | 2375       | 20.61                  | 20.71                 |
|            |                | CA_5A-5A               | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 5        | 5        | 891.5          | 2625       | 22.62                  | 22.68                 |
|            |                | CA_7A-7A               | 7        | 20       | 2510           | 20850      | QPSK | 1      | 0            | 7        | 5        | 2687.5         | 3425       | 21.23                  | 21.26                 |
|            |                | CA_25A-25A             | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 25       | 5        | 1992.5         | 8665       | 21.14                  | 21.23                 |
|            | Contiguous     | CA_2C                  | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 20       | 1979.80        | 1098       | 21.09                  | 21.09                 |
|            |                | CA_5B                  | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 5        | 10       | 883.90         | 2549       | 22.66                  | 22.68                 |
|            |                | CA_7C                  | 7        | 20       | 2510           | 20850      | QPSK | 1      | 0            | 7        | 20       | 2649.80        | 3048       | 21.24                  | 21.26                 |
|            |                | CA_38C                 | 38       | 20       | 2580           | 37850      | QPSK | 1      | 49           | 38       | 20       | 2599.80        | 38048      | 21.32                  | 21.32                 |
|            |                | CA_66B                 | 66       | 15       | 1772.5         | 132597     | QPSK | 1      | 49           | 66       | 5        | 2163.20        | 66968      | 20.54                  | 20.60                 |
|            |                | CA_66C                 | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 20       | 2164.80        | 67084      | 20.66                  | 20.75                 |

### <LAT>

| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        | SCC          |          |          |                | Power      |                        |                       |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band |                | CA_5A-7A               | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 7        | 20       | 2655           | 3100       | 22.89                  | 22.97                 |
|            |                | CA_26A-41A             | 26       | 15       | 831.5          | 26865      | QPSK | 1      | 0            | 41       | 20       | 2593           | 40620      | 22.97                  | 22.99                 |
| Intra-Band | Non-Contiguous | CA_2A-2A               | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1987.5         | 1175       | 22.99                  | 23.07                 |
|            |                | CA_4A-4A               | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 4        | 5        | 2152.5         | 2375       | 22.84                  | 22.84                 |
|            |                | CA_5A-5A               | 5        | 10       | 829            | 20450      | QPSK | 1      | 49           | 5        | 5        | 891.5          | 2625       | 22.93                  | 22.97                 |
|            |                | CA_7A-7A               | 7        | 20       | 2510           | 20850      | QPSK | 1      | 0            | 7        | 5        | 2687.5         | 3425       | 23.49                  | 23.56                 |
|            |                | CA_25A-25A             | 25       | 20       | 1880           | 26340      | QPSK | 1      | 0            | 25       | 5        | 1992.5         | 8665       | 23.19                  | 23.23                 |

|  |            |        |    |    |        |        |      |   |    |    |    |         |       |       |       |
|--|------------|--------|----|----|--------|--------|------|---|----|----|----|---------|-------|-------|-------|
|  | Contiguous | CA_2C  | 2  | 20 | 1880   | 18900  | QPSK | 1 | 0  | 2  | 20 | 1979.80 | 1098  | 23.07 | 23.07 |
|  |            | CA_5B  | 5  | 10 | 829    | 20450  | QPSK | 1 | 49 | 5  | 10 | 883.90  | 2549  | 22.89 | 22.97 |
|  |            | CA_7C  | 7  | 20 | 2510   | 20850  | QPSK | 1 | 0  | 7  | 20 | 2649.80 | 3048  | 23.48 | 23.56 |
|  |            | CA_38C | 38 | 20 | 2580   | 37850  | QPSK | 1 | 49 | 38 | 20 | 2599.80 | 38048 | 23.45 | 23.46 |
|  |            | CA_66B | 66 | 15 | 1772.5 | 132597 | QPSK | 1 | 49 | 66 | 5  | 2163.20 | 66968 | 23.01 | 23.01 |
|  |            | CA_66C | 66 | 20 | 1745   | 132322 | QPSK | 1 | 0  | 66 | 20 | 2164.80 | 67084 | 22.97 | 23.03 |

**<Three Carrier power verification>**
**<UAT>**

| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power                  |                       |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-4A-13A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 13         | 10       | 751      | 5230           | 21.02      | 21.09                  |                       |
|            | CA_2A-4A-29A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 29         | 10       | 722.5    | 9715           | 21.00      | 21.09                  |                       |
|            | CA_2A-4A-4A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 4          | 5        | 2152.5   | 2375           | 21.09      | 21.09                  |                       |
|            | CA_2A-4A-5A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 5          | 10       | 881.5    | 2525           | 21.06      | 21.09                  |                       |
|            | CA_2A-4A-7A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 7          | 20       | 2655     | 3100           | 21.08      | 21.09                  |                       |
|            | CA_2A-5A-30A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 30         | 10       | 2355     | 9820           | 21.04      | 21.09                  |                       |
|            | CA_2A-12A-30A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 30         | 10       | 2355     | 9820           | 21.02      | 21.09                  |                       |
|            | CA_2A-29A-30A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 29           | 10       | 722.5    | 9715           | 30         | 10       | 2355     | 9820           | 21.08      | 21.09                  |                       |
|            | CA_2A-48A-48A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 48           | 20       | 3625     | 55990          | 48         | 5        | 3697.5   | 56715          | 21.05      | 21.09                  |                       |
|            | CA_2A-48A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 48           | 20       | 3625     | 55990          | 66         | 20       | 2155     | 66886          | 21.01      | 21.09                  |                       |
|            | CA_2A-7A-7A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 7          | 5        | 2622.5   | 2775           | 20.99      | 21.09                  |                       |
|            | CA_2A-48C      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 48           | 20       | 3625     | 55990          | 48         | 20       | 3644.8   | 56188          | 21.03      | 21.09                  |                       |
|            | CA_4A-4A-12A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 12         | 10       | 737.5    | 5095           | 20.71      | 20.71                  |                       |
|            | CA_4A-4A-13A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 13         | 10       | 751      | 5230           | 20.71      | 20.71                  |                       |
|            | CA_4A-4A-5A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 5          | 10       | 881.5    | 2525           | 20.62      | 20.71                  |                       |
|            | CA_4A-4A-71A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 71         | 20       | 637      | 68786          | 20.66      | 20.71                  |                       |
|            | CA_4A-4A-7A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 7          | 20       | 2655     | 3100           | 20.62      | 20.71                  |                       |
|            | CA_4A-5A-30A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 30         | 10       | 2355     | 9820           | 20.64      | 20.71                  |                       |
|            | CA_4A-7A-12A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 12         | 10       | 737.5    | 5095           | 20.62      | 20.71                  |                       |
|            | CA_4A-7A-7A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 7          | 5        | 2622.5   | 2775           | 20.61      | 20.71                  |                       |
|            | CA_4A-12A-30A  | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 30         | 10       | 2355     | 9820           | 20.65      | 20.71                  |                       |
|            | CA_4A-29A-30A  | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 29           | 10       | 722.5    | 9715           | 30         | 10       | 2355     | 9820           | 20.68      | 20.71                  |                       |
|            | CA_5A-30A-66A  | 5                      | 10       | 829      | 20450          | QPSK       | 1    | 49     | 30           | 10       | 2355     | 9820           | 66         | 20       | 2155     | 66886          | 22.60      | 22.68                  |                       |
|            | CA_7A-46C      | 7                      | 20       | 2510     | 20850          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 21.20      | 21.26                  |                       |
|            | CA_12A-30A-66A | 12                     | 10       | 707.5    | 23095          | QPSK       | 1    | 25     | 30           | 10       | 2355     | 9820           | 66         | 20       | 2155     | 66886          | 22.97      | 22.98                  |                       |
|            | CA_25A-25A-26A | 25                     | 20       | 1880     | 26340          | QPSK       | 1    | 0      | 25           | 5        | 1992.5   | 8665           | 26         | 15       | 876.5    | 8865           | 21.18      | 21.23                  |                       |
|            | CA_48A-48A-66A | 48                     | 20       | 3675     | 56490          | QPSK       | 1    | 49     | 48           | 5        | 3697.5   | 56715          | 66         | 20       | 2155     | 66886          | 22.55      | 22.56                  |                       |
|            | CA_48C-66A     | 48                     | 20       | 3660     | 56340          | QPSK       | 1    | 49     | 48           | 20       | 3679.8   | 56538          | 66         | 20       | 2155     | 66886          | 22.51      | 22.56                  |                       |
| Intra-Band | Contiguous     | CA_48C-48A             | 48       | 20       | 3660           | 56340      | QPSK | 1      | 49           | 48       | 20       | 3679.8         | 56538      | 48       | 5        | 3697.5         | 56715      | 22.51                  | 22.56                 |
|            |                | CA_66A-66C             | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2197.5         | 67311      | 66       | 20       | 2185.8         | 67428      | 20.75                  | 20.75                 |

**<LAT>**

| Configure  |                | CA Configuration (BCS) | PCC      |          |                |            |      |        | SCC1         |          |          |                | SCC2       |          |          |                | Power      |                        |                       |
|------------|----------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-4A-13A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 13         | 10       | 751      | 5230           | 22.98      | 23.07                  |                       |
|            | CA_2A-4A-29A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 29         | 10       | 722.5    | 9715           | 22.98      | 23.07                  |                       |
|            | CA_2A-4A-4A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 4          | 5        | 2152.5   | 2375           | 23.02      | 23.07                  |                       |
|            | CA_2A-4A-5A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 5          | 10       | 881.5    | 2525           | 23.04      | 23.07                  |                       |
|            | CA_2A-4A-7A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 4            | 20       | 2132.5   | 2175           | 7          | 20       | 2655     | 3100           | 23.02      | 23.07                  |                       |
|            | CA_2A-5A-30A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 30         | 10       | 2355     | 9820           | 23.04      | 23.07                  |                       |
|            | CA_2A-12A-30A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 30         | 10       | 2355     | 9820           | 23.06      | 23.07                  |                       |
|            | CA_2A-29A-30A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 29           | 10       | 722.5    | 9715           | 30         | 10       | 2355     | 9820           | 23.02      | 23.07                  |                       |
|            | CA_2A-7A-7A    | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 7          | 5        | 2622.5   | 2775           | 23.05      | 23.07                  |                       |
|            | CA_4A-4A-12A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 12         | 10       | 737.5    | 5095           | 22.80      | 22.84                  |                       |
|            | CA_4A-4A-13A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 13         | 10       | 751      | 5230           | 22.83      | 22.84                  |                       |
|            | CA_4A-4A-5A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 5          | 10       | 881.5    | 2525           | 22.81      | 22.84                  |                       |
|            | CA_4A-4A-71A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 71         | 20       | 637      | 68786          | 22.78      | 22.84                  |                       |
|            | CA_4A-4A-7A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 4            | 5        | 2152.5   | 2375           | 7          | 20       | 2655     | 3100           | 22.75      | 22.84                  |                       |
|            | CA_4A-5A-30A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 30         | 10       | 2355     | 9820           | 22.74      | 22.84                  |                       |
|            | CA_4A-7A-12A   | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 12         | 10       | 737.5    | 5095           | 22.78      | 22.84                  |                       |
|            | CA_4A-7A-7A    | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 7            | 20       | 2655     | 3100           | 7          | 5        | 2622.5   | 2775           | 22.84      | 22.84                  |                       |
|            | CA_4A-12A-30A  | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 30         | 10       | 2355     | 9820           | 22.77      | 22.84                  |                       |
|            | CA_4A-29A-30A  | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 29           | 10       | 722.5    | 9715           | 30         | 10       | 2355     | 9820           | 22.84      | 22.84                  |                       |
|            | CA_5A-30A-66A  | 5                      | 10       | 829      | 20450          | QPSK       | 1    | 49     | 30           | 10       | 2355     | 9820           | 66         | 20       | 2155     | 66886          | 22.88      | 22.97                  |                       |
|            | CA_7A-46C      | 7                      | 20       | 2510     | 20850          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 23.48      | 23.56                  |                       |
|            | CA_12A-30A-66A | 12                     | 10       | 707.5    | 23095          | QPSK       | 1    | 25     | 30           | 10       | 2355     | 9820           | 66         | 20       | 2155     | 66886          | 22.88      | 22.94                  |                       |
|            | CA_25A-25A-26A | 25                     | 20       | 1880     | 26340          | QPSK       | 1    | 0      | 25           | 5        | 1992.5   | 8665           | 26         | 15       | 876.5    | 8865           | 23.17      | 23.23                  |                       |
| Intra-Band | Contiguous     | CA_66A-66C             | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2197.5         | 67311      | 66       | 20       | 2185.8         | 67428      | 22.98                  | 23.03                 |



## &lt;Four Carrier power verification&gt;

## &lt;UAT&gt;

| Configure  |                   | CA Configuration (BCS) | PCC      |          |                |            |      |        | SCC1         |          |          |                | SCC2       |          |          |                | SCC3       |          |          |                | Power      |                        |                       |
|------------|-------------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                   |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | CA_2A-12A-66A-66A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 21.01      | 21.09                  |                       |
|            | CA_2A-12A-66C     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 21.07      | 21.09                  |                       |
|            | CA_2A-13A-66A-66A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 21.04      | 21.09                  |                       |
|            | CA_2A-13A-66B     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 15       | 2155     | 66886          | 66         | 5        | 2164.3   | 66979          | 21.01      | 21.09                  |                       |
|            | CA_2A-13A-66C     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 21.01      | 21.09                  |                       |
|            | CA_2A-2A-12A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 12         | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 21.03      | 21.09                  |                       |
|            | CA_2A-2A-13A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 13         | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 21.08      | 21.09                  |                       |
|            | CA_2A-2A-5A-66A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 5          | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 21.00      | 21.09                  |                       |
|            | CA_2A-2A-66A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 20.99      | 21.09                  |                       |
|            | CA_2A-2A-66A-71A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 71         | 20       | 637      | 68786          | 21.06      | 21.09                  |                       |
|            | CA_2A-2A-4A-71A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 4          | 20       | 2132.5   | 2175           | 71         | 20       | 637      | 68786          | 21.08      | 21.09                  |                       |
|            | CA_2A-2A-66C      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 21.06      | 21.09                  |                       |
|            | CA_2A-5A-66A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 21.00      | 21.09                  |                       |
|            | CA_2A-5A-66B      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 15       | 2155     | 66886          | 66         | 5        | 2164.3   | 66979          | 21.07      | 21.09                  |                       |
|            | CA_2A-5A-66C      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 21.09      | 21.09                  |                       |
|            | CA_2A-66A-66A-71A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 66           | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 71         | 20       | 637      | 68786          | 21.05      | 21.09                  |                       |
|            | CA_2A-66C-71A     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 66           | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 71         | 20       | 637      | 68786          | 21.00      | 21.09                  |                       |
|            | CA_2A-46A-48C     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 48         | 20       | 3660     | 56340          | 48         | 20       | 3679.8   | 56538          | 21.06      | 21.09                  |                       |
|            | CA_2C-66A-66A     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 20       | 1979.8   | 1098           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 21.00      | 21.09                  |                       |
|            | CA_2A-2A-4A-12A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1960     | 900            | 4          | 20       | 2132.5   | 2175           | 12         | 10       | 737.5    | 5095           | 21.07      | 21.09                  |                       |
|            | CA_2A-46C-48A     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 48         | 20       | 3660     | 56340          | 21.06      | 21.09                  |                       |
|            | CA_4A-46D         | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 46         | 20       | 5577.1   | 51061          | 20.68      | 20.71                  |                       |
|            | CA_25A-41D        | 25                     | 20       | 1880     | 26340          | QPSK       | 1    | 0      | 41           | 20       | 2593     | 40620          | 41         | 20       | 2612.8   | 40818          | 41         | 20       | 2632.6   | 41016          | 21.20      | 21.23                  |                       |
|            | CA_25A-46D        | 25                     | 20       | 1880     | 26340          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 46         | 20       | 5577.1   | 51061          | 21.14      | 21.23                  |                       |
|            | CA_46A-46C-66A    | 66                     | 20       | 1745     | 132322         | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5160     | 46890          | 46         | 20       | 5179.8   | 47088          | 20.74      | 20.75                  |                       |
|            | CA_46D-66A        | 66                     | 20       | 1745     | 132322         | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 46         | 20       | 5577.1   | 51061          | 20.73      | 20.75                  |                       |
|            | CA_46C-48A-66A    | 66                     | 20       | 1745     | 132322         | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 48         | 20       | 3660     | 56340          | 20.70      | 20.75                  |                       |
|            | CA_46A-48C-66A    | 66                     | 20       | 1745     | 132322         | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 48         | 20       | 3660     | 56340          | 48         | 20       | 3679.8   | 56538          | 20.72      | 20.75                  |                       |
|            | CA_46D-48A        | 48                     | 20       | 3675     | 56490          | QPSK       | 1    | 49     | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 46         | 20       | 5577.1   | 51061          | 22.51      | 22.56                  |                       |
|            | CA_48D-66A        | 66                     | 20       | 1745     | 132322         | QPSK       | 1    | 0      | 48           | 20       | 55340    | 3560           | 48         | 20       | 55359.8  | 3758           | 48         | 20       | 55379.6  | 3956           | 20.73      | 20.75                  |                       |
| Intra-Band | Contiguous        | CA_41E                 | 41       | 20       | 2593           | 40620      | QPSK | 1      | 49           | 41       | 20       | 2612.80        | 40818      | 41       | 20       | 2632.60        | 41016      | 41       | 20       | 2652.40        | 41214      | 21.37                  | 21.47                 |
|            |                   | CA_48E                 | 48       | 20       | 3609           | 55830      | QPSK | 1      | 49           | 48       | 20       | 3628.80        | 56028      | 48       | 20       | 3648.60        | 56226      | 48       | 20       | 3668.40        | 56424      | 22.46                  | 22.56                 |



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| Configure      |                   | CA Configuration (BCS) | PCC      |          | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | Power                  |                       |
|----------------|-------------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|                |                   |                        | LTE Band | BW (MHz) |                |            |      |        |              | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band     | CA_2A-12A-66A-66A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 23.00      | 23.07                  |                       |
|                | CA_2A-12A-66C     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 12           | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 23.02      | 23.07                  |                       |
|                | CA_2A-13A-66A-66A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 23.00      | 23.07                  |                       |
|                | CA_2A-13A-66B     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 15       | 2155     | 66886          | 66         | 5        | 2164.3   | 66979          | 23.03      | 23.07                  |                       |
|                | CA_2A-13A-66C     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 13           | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 22.98      | 23.07                  |                       |
|                | CA_2A-2A-12A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 12         | 10       | 737.5    | 5095           | 66         | 20       | 2155     | 66886          | 22.99      | 23.07                  |                       |
|                | CA_2A-2A-13A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 13         | 10       | 751      | 5230           | 66         | 20       | 2155     | 66886          | 23.02      | 23.07                  |                       |
|                | CA_2A-2A-5A-66A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 5          | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 23.01      | 23.07                  |                       |
|                | CA_2A-2A-66A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 22.98      | 23.07                  |                       |
|                | CA_2A-2A-66A-71A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 71         | 20       | 637      | 68786          | 22.97      | 23.07                  |                       |
|                | CA_2A-2A-4A-71A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 4          | 20       | 2132.5   | 2175           | 71         | 20       | 637      | 68786          | 23.01      | 23.07                  |                       |
|                | CA_2A-2A-66C      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1987.5   | 1175           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 23.05      | 23.07                  |                       |
|                | CA_2A-5A-66A-66A  | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 23.01      | 23.07                  |                       |
|                | CA_2A-5A-66B      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 15       | 2155     | 66886          | 66         | 5        | 2164.3   | 66979          | 22.98      | 23.07                  |                       |
|                | CA_2A-5A-66C      | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 5            | 10       | 881.5    | 2525           | 66         | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 23.00      | 23.07                  |                       |
|                | CA_2A-66A-66A-71A | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 66           | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 71         | 20       | 637      | 68786          | 22.98      | 23.07                  |                       |
|                | CA_2A-66C-71A     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 66           | 20       | 2155     | 66886          | 66         | 20       | 2174.8   | 67084          | 71         | 20       | 637      | 68786          | 23.05      | 23.07                  |                       |
|                | CA_2C-66A-66A     | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 20       | 1979.8   | 1098           | 66         | 20       | 2155     | 66886          | 66         | 5        | 2197.5   | 67311          | 22.98      | 23.07                  |                       |
|                | CA_2A-2A-4A-12A   | 2                      | 20       | 1880     | 18900          | QPSK       | 1    | 0      | 2            | 5        | 1960     | 900            | 4          | 20       | 2132.5   | 2175           | 12         | 10       | 737.5    | 5095           | 23.01      | 23.07                  |                       |
|                | CA_4A-46D         | 4                      | 20       | 1732.5   | 20175          | QPSK       | 1    | 0      | 46           | 20       | 5537.5   | 50665          | 46         | 20       | 5557.3   | 50863          | 46         | 20       | 5577.1   | 51061          | 22.78      | 22.84                  |                       |
| CA_25A-41D     | 25                | 20                     | 1880     | 26340    | QPSK           | 1          | 0    | 41     | 20           | 2593     | 40620    | 41             | 20         | 2612.8   | 40818    | 41             | 20         | 2632.6   | 41016    | 23.16          | 23.23      |                        |                       |
| CA_25A-46D     | 25                | 20                     | 1880     | 26340    | QPSK           | 1          | 0    | 46     | 20           | 5537.5   | 50665    | 46             | 20         | 5557.3   | 50863    | 46             | 20         | 5577.1   | 51061    | 23.18          | 23.23      |                        |                       |
| CA_46A-46C-66A | 66                | 20                     | 1745     | 132322   | QPSK           | 1          | 0    | 46     | 20           | 5537.5   | 50665    | 46             | 20         | 5160     | 46890    | 46             | 20         | 5179.8   | 47088    | 23.01          | 23.03      |                        |                       |
| CA_46D-66A     | 66                | 20                     | 1745     | 132322   | QPSK           | 1          | 0    | 46     | 20           | 5537.5   | 50665    | 46             | 20         | 5557.3   | 50863    | 46             | 20         | 5577.1   | 51061    | 22.98          | 23.03      |                        |                       |
| Intra-Band     | Contiguous        | CA_41E                 | 41       | 20       | 2593           | 40620      | QPSK | 1      | 49           | 41       | 20       | 2612.80        | 40818      | 41       | 20       | 2632.60        | 41016      | 41       | 20       | 2652.40        | 41214      | 23.58                  | 23.60                 |

**<Five Carrier power verification>**
**<UAT>**

| Configure             | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | Power                  |                       |
|-----------------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|                       |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
|                       | CA_2A-2A-46D           | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1987.5         | 1175       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 21.06                  | 21.09                 |
|                       | CA_2A-46A-46C-66A      | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 66       | 20       | 2155           | 66886      | 21.04                  | 21.09                 |
|                       | CA_2A-46A-46D          | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 21.09                  | 21.09                 |
|                       | CA_2A-46D-66A          | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 66       | 20       | 2155           | 66886      | 21.00                  | 21.09                 |
|                       | CA_2A-46E              | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 21.00                  | 21.09                 |
|                       | CA_46A-46D-66A         | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 20.71                  | 20.75                 |
|                       | CA_46E-66A             | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 20.65                  | 20.75                 |
|                       | CA_48E-66A             | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 48       | 20       | 3609           | 55830      | 48       | 20       | 3628.8         | 56028      | 48       | 20       | 3648.6         | 56226      | 48       | 20       | 3668.4         | 56424      | 20.68                  | 20.75                 |
| Intra-Band Contiguous | CA_4A-46A-46D          | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 20.67                  | 20.71                 |
|                       | CA_41C-41D             | 41       | 20       | 2593           | 40620      | QPSK | 1      | 49           | 41       | 20       | 2612.80        | 40818      | 41       | 5        | 2502.5         | 39715      | 41       | 20       | 2514.20        | 39832      | 41       | 20       | 2534.00        | 40030      | 21.47                  | 21.47                 |

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| Configure             | CA Configuration (BCS) | PCC      |          |                |            |      |        |              | SCC1     |          |                |            | SCC2     |          |                |            | SCC3     |          |                |            | SCC4     |          |                |            | Power                  |                       |
|-----------------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
|                       |                        | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
|                       | CA_2A-2A-46D           | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 2        | 5        | 1987.5         | 1175       | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 23.05                  | 23.07                 |
|                       | CA_2A-46A-46C-66A      | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 66       | 20       | 2155           | 66886      | 23.00                  | 23.07                 |
|                       | CA_2A-46A-46D          | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 23.03                  | 23.07                 |
|                       | CA_2A-46D-66A          | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 66       | 20       | 2155           | 66886      | 22.98                  | 23.07                 |
|                       | CA_2A-46E              | 2        | 20       | 1880           | 18900      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 23.03                  | 23.07                 |
|                       | CA_46A-46D-66A         | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 23.00                  | 23.03                 |
|                       | CA_46E-66A             | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5557.3         | 50863      | 46       | 20       | 5577.1         | 51061      | 46       | 20       | 5596.9         | 51259      | 22.98                  | 23.03                 |
|                       | CA_4A-46A-46D          | 4        | 20       | 1732.5         | 20175      | QPSK | 1      | 0            | 46       | 20       | 5537.5         | 50665      | 46       | 20       | 5160           | 46890      | 46       | 20       | 5179.8         | 47088      | 46       | 20       | 5199.6         | 47286      | 22.77                  | 22.84                 |
| Intra-Band Contiguous | CA_41C-41D             | 41       | 20       | 2593           | 40620      | QPSK | 1      | 49           | 41       | 20       | 2612.80        | 40818      | 41       | 5        | 2502.5         | 39715      | 41       | 20       | 2514.20        | 39832      | 41       | 20       | 2534.00        | 40030      | 23.51                  | 23.60                 |

**<LTE Uplink carrier aggregation>**

| 2CC Uplink Carrier Aggregation |             |          |             |                      |
|--------------------------------|-------------|----------|-------------|----------------------|
| Number                         | Combination | 4X4 MIMO | Restriction | Covered by           |
|                                |             |          |             | Measurement Superset |
| 1                              | 41C         | 41C,41A  |             |                      |
| 2                              | 48C         | 48C,48A  |             |                      |
| 3                              | 66C         | 66C,66A  |             |                      |

**<Intra-band>**
**General Note:**

- The device supports intra-band uplink carrier aggregation for LTE B66/B41/B48 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

**<Full power>**
**<UAT>**

| CA_66C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.99                | 22                  |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.96                | 22                  |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.97                | 22                  |

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.75                | 21.8                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.62                | 21.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.77                | 21.8                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.79                | 21.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.65                | 21.8                |

| CA_41C_HPUE                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 22.65                | 24.3                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.78                | 24.3                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.15                | 24.3                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.93                | 24.3                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.91                | 24.3                |

| CA_48C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 22.50                | 23.8                |
| 55830                                 | 55632       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.86                | 23.8                |
| 56150                                 | 55952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.23                | 23.8                |
| 56640                                 | 56442       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.92                | 23.8                |

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| CA_66C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 22.74                | 23.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.72                | 23.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.75                | 23.8                |

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.48                | 23.8                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.77                | 23.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.71                | 23.8                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 23.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.79                | 23.8                |

| CA_41C_HPUE                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.6                 | 26.3                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.83                | 26.3                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.94                | 26.3                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.96                | 26.3                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.83                | 26.3                |

<Reduced Power for Next-to-Head>

<UAT>

| CA_66C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 11.93                | 13                  |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 12.69                | 13                  |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 12.68                | 13                  |

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 16.00                | 17.3                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.99                | 17.3                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.29                | 17.3                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.15                | 17.3                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.13                | 17.3                |

| CA_41C_HPUE                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.22                | 18.3                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.93                | 18.3                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.09                | 18.3                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.01                | 18.3                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.98                | 18.3                |

| CA_48C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 13.05                | 14.3                |
| 55830                                 | 55632       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 13.91                | 14.3                |
| 56150                                 | 55952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 13.96                | 14.3                |
| 56640                                 | 56442       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 12.77                | 14.3                |

**<Reduced Power for Hotspot On>**
**<UAT>**

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.67                | 17.8                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.63                | 17.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.78                | 17.8                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.72                | 17.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 17.67                | 17.8                |

| CA_41C_HPUE                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.00                | 19.8                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.84                | 19.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.19                | 19.8                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.07                | 19.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.02                | 19.8                |

| CA_48C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 17.65                | 18.8                |
| 55830                                 | 55632       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.04                | 18.8                |
| 56150                                 | 55952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.34                | 18.8                |
| 56640                                 | 56442       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.26                | 18.8                |

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| CA_66C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.84                | 20.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.72                | 20.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.75                | 20.8                |

| CA_41C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.34                | 20.8                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.63                | 20.8                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.73                | 20.8                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.69                | 20.8                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.64                | 20.8                |

| CA_41C_HPUE                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.62                | 23.3                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.86                | 23.3                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.01                | 23.3                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.03                | 23.3                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.83                | 23.3                |

<Reduced Power for Sensor On>

<UAT>

| CA_48C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.69                | 19.8                |
| 55830                                 | 55632       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.41                | 19.8                |
| 56150                                 | 55952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.48                | 19.8                |
| 56640                                 | 56442       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.48                | 19.8                |

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| CA_66C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.72                | 19.8                |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.32                | 19.8                |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.46                | 19.8                |

## 14. 5G NR Output Power (Unit: dBm)

### General Note:

1. NR implementation of n71, n5, n66, n2, and n41 is limited to EN-DC operations only (NSA), with LTE Bands 2/5/12/13/25/26/66/41 acting as anchor bands, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Following 5G NR n2/n5/n66/n71 support SCS 15KHz DFT/CP-OFDM, PI/2 BPSK/QPSK/16QAM/64QAM/256QAM, Bandwidth 5M/10M/15M/20M.
3. Following 5G NR n41 support SCS 30KHz DFT/CP-OFDM, PI/2 BPSK/QPSK/16QAM/64QAM/256QAM, Bandwidth 20M/40M/50M/60M/80M/90M/100M.
4. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not  $\frac{1}{2}$  dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is  $\leq 1.45$  W/kg; CP-OFDM testing is not required.
  - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QMA/256QAM and smaller bandwidth output power will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth.
  - c. SAR testing start with the largest channel bandwidth and measure SAR for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
  - d. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
  - e. PI/2 BPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
  - f. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - g. Smaller bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
5. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

**<3GPP 38.101 MPR for EN-DC>**
**Table 6.2.2-1 Maximum power reduction (MPR) for power class 3**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|            |           | $\leq 0.5^2$        | $\leq 0.5^2$         | 0 <sup>2</sup>       |
|            | QPSK      | $\leq 1$            |                      | 0                    |
|            | 16 QAM    | $\leq 2$            |                      | $\leq 1$             |
|            | 64 QAM    |                     | $\leq 2.5$           |                      |
| CP-OFDM    | 256 QAM   |                     | $\leq 4.5$           |                      |
|            | QPSK      | $\leq 3$            |                      | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3$            |                      | $\leq 2$             |
|            | 64 QAM    |                     | $\leq 3.5$           |                      |
|            | 256 QAM   |                     | $\leq 6.5$           |                      |

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Table 6.2.2-2 Maximum power reduction (MPR) for power class 2**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5$          | $\leq 0.5$           | 0                    |
|            | QPSK      | $\leq 3.5$          | $\leq 1$             | 0                    |
|            | 16 QAM    | $\leq 3.5$          | $\leq 2$             | $\leq 1$             |
|            | 64 QAM    | $\leq 3.5$          |                      | $\leq 2.5$           |
|            | 256 QAM   |                     | $\leq 4.5$           |                      |
| CP-OFDM    | QPSK      | $\leq 3.5$          | $\leq 3$             | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3.5$          | $\leq 3$             | $\leq 2$             |
|            | 64 QAM    |                     | $\leq 3.5$           |                      |
|            | 256 QAM   |                     | $\leq 6.5$           |                      |

**<NSA mode>**  
**<DFT-s-OFDM—EN-DC--Full Power>**

**<n2 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 23.8                | 0        |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 22.56                 | 22.92                    | 22.78                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 53        | 22.52                 | 22.87                    | 22.86                  | 23.8                | 0        |
| 20              | PI/2 BPSK  | 1       | 104       | 22.47                 | 22.83                    | 22.85                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 22.47                 | 22.83                    | 22.88                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 28        | 22.39                 | 22.78                    | 22.72                  | 23.8                | 0        |
| 20              | PI/2 BPSK  | 50      | 56        | 22.42                 | 22.79                    | 22.75                  |                     |          |
| 20              | PI/2 BPSK  | 100     | 0         | 21.55                 | 22.10                    | 21.95                  |                     |          |
| 20              | QPSK       | 1       | 1         | 22.50                 | 22.92                    | 22.70                  | 23.8                | 0        |
| 20              | QPSK       | 1       | 53        | 22.49                 | 22.72                    | 22.77                  |                     |          |
| 20              | QPSK       | 1       | 104       | 22.31                 | 22.82                    | 22.73                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.44                 | 22.70                    | 22.76                  | 23.8                | 0        |
| 20              | QPSK       | 50      | 28        | 22.32                 | 22.69                    | 22.52                  |                     |          |
| 20              | QPSK       | 50      | 56        | 22.29                 | 22.75                    | 22.66                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.44                 | 21.91                    | 21.85                  | 22.8                | 1        |
| 20              | 16QAM      | 1       | 1         | 21.62                 | 22.04                    | 21.83                  | 22.8                | 1        |
| 20              | 64QAM      | 1       | 1         | 20.58                 | 20.80                    | 20.76                  | 21.3                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.11                 | 18.57                    | 18.08                  | 19.3                | 4.5      |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 | (dBm)               | (dB)     |
| 15              | QPSK       | 1       | 1         | 22.48                 | 22.85                    | 22.75                  | 23.8                | 0        |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   | (dBm)               | (dB)     |
| 10              | QPSK       | 1       | 1         | 22.4                  | 22.79                    | 22.63                  | 23.8                | 0        |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 | (dBm)               | (dB)     |
| 5               | QPSK       | 1       | 1         | 22.31                 | 22.74                    | 22.58                  | 23.8                | 0        |

**<n5 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.31                    | 23.22                       | 23.18                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 23.25                    | 23.18                       | 23.11                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 23.26                    | 23.19                       | 23.13                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 23.28                    | 23.21                       | 23.16                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 23.25                    | 23.20                       | 23.15                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 23.27                    | 23.18                       | 23.16                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.22                    | 22.32                       | 22.28                     | 22.80                  | 1           |
| 20              | QPSK       | 1       | 1         | 23.19                    | 23.03                       | 23.06                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 23.17                    | 23.02                       | 23.09                     |                        |             |
| 20              | QPSK       | 1       | 104       | 23.21                    | 23.13                       | 23.10                     |                        |             |
| 20              | QPSK       | 50      | 0         | 23.21                    | 23.17                       | 23.15                     | 23.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 23.16                    | 23.17                       | 22.96                     |                        |             |
| 20              | QPSK       | 50      | 56        | 23.11                    | 23.18                       | 22.99                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.03                    | 22.31                       | 22.19                     | 22.80                  | 1           |
| 20              | 16QAM      | 1       | 1         | 22.45                    | 22.37                       | 22.38                     | 22.80                  | 1           |
| 20              | 64QAM      | 1       | 1         | 21.60                    | 21.52                       | 21.50                     | 21.30                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 19.51                    | 19.62                       | 19.50                     | 19.30                  | 4.5         |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 23.24                    | 23.17                       | 23.13                     | 23.80                  | 0           |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 23.16                    | 23.09                       | 23.09                     | 23.80                  | 0           |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 23.08                    | 22.97                       | 22.91                     | 23.80                  | 0           |

**<n66 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.25                    | 23.27                       | 23.13                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 23.21                    | 23.25                       | 23.09                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 23.19                    | 23.24                       | 23.07                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 23.22                    | 23.25                       | 23.07                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 23.21                    | 23.23                       | 23.11                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 23.18                    | 23.22                       | 23.12                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.25                    | 22.22                       | 22.17                     | 22.80                  | 1           |
| 20              | QPSK       | 1       | 1         | 23.10                    | 23.22                       | 23.08                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 23.12                    | 23.14                       | 22.96                     |                        |             |
| 20              | QPSK       | 1       | 104       | 23.06                    | 23.24                       | 22.88                     |                        |             |
| 20              | QPSK       | 50      | 0         | 23.08                    | 23.22                       | 22.90                     | 23.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 23.20                    | 23.05                       | 23.06                     |                        |             |
| 20              | QPSK       | 50      | 56        | 23.09                    | 23.16                       | 23.05                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.06                    | 22.14                       | 22.03                     | 22.80                  | 1           |
| 20              | 16QAM      | 1       | 1         | 22.48                    | 22.42                       | 22.40                     | 22.80                  | 1           |
| 20              | 64QAM      | 1       | 1         | 21.04                    | 21.08                       | 21.08                     | 21.30                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 19.05                    | 18.94                       | 18.94                     | 19.30                  | 4.5         |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 23.18                    | 23.21                       | 23.05                     | 23.80                  | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 23.11                    | 23.19                       | 23.05                     | 23.80                  | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 23.08                    | 23.00                       | 22.98                     | 23.80                  | 0           |

**<n71 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.09                    | 23.25                       | 23.13                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 23.05                    | 23.18                       | 23.06                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 23.05                    | 23.22                       | 23.05                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 23.08                    | 23.23                       | 23.03                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 23.07                    | 23.19                       | 23.09                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 23.01                    | 23.17                       | 23.07                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.33                    | 22.42                       | 22.34                     | 22.80                  | 1           |
| 20              | QPSK       | 1       | 1         | 22.93                    | 23.11                       | 22.96                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 23.03                    | 23.18                       | 22.95                     |                        |             |
| 20              | QPSK       | 1       | 104       | 23.04                    | 23.10                       | 22.92                     |                        |             |
| 20              | QPSK       | 50      | 0         | 23.08                    | 23.20                       | 23.01                     | 23.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 22.95                    | 23.09                       | 23.04                     |                        |             |
| 20              | QPSK       | 50      | 56        | 23.00                    | 23.01                       | 22.93                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.16                    | 22.27                       | 22.20                     | 22.80                  | 1           |
| 20              | 16QAM      | 1       | 1         | 22.12                    | 22.12                       | 22.14                     | 22.80                  | 1           |
| 20              | 64QAM      | 1       | 1         | 21.08                    | 20.98                       | 20.73                     | 21.30                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 19.02                    | 18.72                       | 18.53                     | 19.30                  | 4.5         |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 23.03                    | 23.18                       | 23.10                     | 23.80                  | 0           |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.95                    | 23.15                       | 23.04                     | 23.80                  | 0           |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.86                    | 23.00                       | 22.90                     | 23.80                  | 0           |

**<n41 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 509200                   | 518600                      | 528000                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 2546                     | 2593                        | 2640                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 23.29                    | 23.43                       | 23.35                     |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       | 23.25                    | 23.39                       | 23.25                     | 23.8                   | 0           |
| 100             | PI/2 BPSK  | 1       | 271       | 23.24                    | 23.40                       | 23.31                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 23.23                    | 23.41                       | 23.23                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        | 23.21                    | 23.38                       | 23.27                     | 23.8                   | 0           |
| 100             | PI/2 BPSK  | 135     | 138       | 23.19                    | 23.35                       | 23.22                     |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 23.13                    | 23.25                       | 23.06                     |                        |             |
| 100             | QPSK       | 1       | 1         | 23.14                    | 23.27                       | 23.15                     | 23.8                   | 0           |
| 100             | QPSK       | 1       | 137       | 23.06                    | 23.37                       | 23.24                     |                        |             |
| 100             | QPSK       | 1       | 271       | 23.06                    | 23.29                       | 23.22                     |                        |             |
| 100             | QPSK       | 135     | 0         | 23.23                    | 23.32                       | 23.10                     | 23.8                   | 0           |
| 100             | QPSK       | 135     | 69        | 23.17                    | 23.28                       | 23.14                     |                        |             |
| 100             | QPSK       | 135     | 138       | 23.12                    | 23.16                       | 23.09                     |                        |             |
| 100             | QPSK       | 270     | 0         | 22.94                    | 23.10                       | 23.06                     | 23.80                  | 0           |
| 100             | 16QAM      | 1       | 1         | 23.14                    | 23.31                       | 23.27                     | 23.80                  | 0           |
| 100             | 64QAM      | 1       | 1         | 23.19                    | 23.28                       | 23.20                     | 23.80                  | 0           |
| 100             | 256QAM     | 1       | 1         | 21.51                    | 21.81                       | 21.72                     | 22.30                  | 1.5         |
| Channel         |            |         |           | 508200                   | 518600                      | 529000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2541                     | 2593                        | 2645                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 23.24                    | 23.30                       | 23.30                     | 23.80                  | 0           |
| Channel         |            |         |           | 507200                   | 518600                      | 530000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2536                     | 2593                        | 2650                      | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 23.23                    | 23.28                       | 23.28                     | 23.80                  | 0           |
| Channel         |            |         |           | 505200                   | 518600                      | 532000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2526                     | 2593                        | 2660                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 23.13                    | 23.20                       | 23.20                     | 23.80                  | 0           |
| Channel         |            |         |           | 504200                   | 518600                      | 533000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2521                     | 2593                        | 2665                      | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 23.15                    | 23.25                       | 23.25                     | 23.80                  | 0           |
| Channel         |            |         |           | 503200                   | 518600                      | 534000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2516                     | 2593                        | 2670                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 23.05                    | 23.21                       | 23.17                     | 23.80                  | 0           |
| Channel         |            |         |           | 501200                   | 518600                      | 536000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2506                     | 2593                        | 2680                      | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 23.08                    | 23.17                       | 23.18                     | 23.80                  | 0           |

**<UAT n2>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 22.0                   | 0           |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 20.64                    | 20.96                       | 20.98                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 20.40                    | 20.95                       | 20.94                     | 22.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 20.63                    | 20.93                       | 20.91                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 20.37                    | 20.83                       | 20.94                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 20.36                    | 20.98                       | 20.99                     | 22.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 20.51                    | 21.01                       | 21.02                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 20.35                    | 20.97                       | 20.98                     |                        |             |
| 20              | QPSK       | 1       | 1         | 20.61                    | 20.83                       | 20.84                     | 22.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 20.37                    | 20.78                       | 20.92                     |                        |             |
| 20              | QPSK       | 1       | 104       | 20.57                    | 20.84                       | 20.76                     |                        |             |
| 20              | QPSK       | 50      | 0         | 20.31                    | 20.63                       | 20.94                     | 22.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 20.27                    | 20.85                       | 20.97                     |                        |             |
| 20              | QPSK       | 50      | 56        | 20.41                    | 20.81                       | 20.98                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.25                    | 20.89                       | 20.95                     | 22.00                  | 0           |
| 20              | 16QAM      | 1       | 1         | 20.58                    | 20.85                       | 21.14                     | 22.00                  | 0           |
| 20              | 64QAM      | 1       | 1         | 18.92                    | 19.27                       | 19.52                     | 22.00                  | 0           |
| 20              | 256QAM     | 1       | 1         | 17.37                    | 17.57                       | 17.80                     | 22.00                  | 0           |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 20.50                    | 20.77                       | 21.03                     | 22.00                  | 0           |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 20.48                    | 20.65                       | 21.00                     | 22.00                  | 0           |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 20.48                    | 20.74                       | 20.99                     | 22.00                  | 0           |

**<n5 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.79                    | 22.71                       | 22.64                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 22.53                    | 22.65                       | 22.55                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 22.57                    | 22.57                       | 22.47                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.70                    | 22.68                       | 22.64                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 22.63                    | 22.69                       | 22.68                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 22.68                    | 22.56                       | 22.53                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.61                    | 22.69                       | 22.64                     |                        |             |
| 20              | QPSK       | 1       | 1         | 22.63                    | 22.58                       | 22.60                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 22.41                    | 22.55                       | 22.35                     |                        |             |
| 20              | QPSK       | 1       | 104       | 22.48                    | 22.55                       | 22.40                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.66                    | 22.59                       | 22.47                     | 23.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 22.45                    | 22.61                       | 22.59                     |                        |             |
| 20              | QPSK       | 50      | 56        | 22.65                    | 22.45                       | 22.36                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.57                    | 22.64                       | 22.48                     | 23.80                  | 0           |
| 20              | 16QAM      | 1       | 1         | 22.44                    | 22.42                       | 22.42                     | 22.80                  | 1           |
| 20              | 64QAM      | 1       | 1         | 22.38                    | 22.27                       | 22.32                     | 22.80                  | 1           |
| 20              | 256QAM     | 1       | 1         | 20.29                    | 20.38                       | 17.35                     | 20.80                  | 3           |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 22.73                    | 22.67                       | 22.61                     | 23.80                  | 0           |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.59                    | 22.51                       | 22.46                     | 23.80                  | 0           |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.60                    | 22.54                       | 22.44                     | 23.80                  | 0           |

**<n66>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 22.0                   | 0           |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 21.58                    | 21.51                       | 21.39                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 21.43                    | 21.26                       | 21.26                     | 22.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 21.46                    | 21.35                       | 21.25                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 20.56                    | 20.49                       | 20.33                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 21.43                    | 21.31                       | 21.22                     | 22.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 20.52                    | 20.45                       | 20.33                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 20.51                    | 20.43                       | 20.34                     | 21.00                  | 1           |
| 20              | QPSK       | 1       | 1         | 21.52                    | 21.33                       | 21.22                     | 22.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 21.41                    | 21.11                       | 21.16                     |                        |             |
| 20              | QPSK       | 1       | 104       | 21.43                    | 21.34                       | 21.18                     |                        |             |
| 20              | QPSK       | 50      | 0         | 20.43                    | 20.47                       | 20.20                     | 22.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 21.40                    | 21.18                       | 21.02                     |                        |             |
| 20              | QPSK       | 50      | 56        | 20.42                    | 20.41                       | 20.30                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.48                    | 20.30                       | 20.32                     | 21.00                  | 1           |
| 20              | 16QAM      | 1       | 1         | 20.57                    | 20.52                       | 20.32                     | 21.00                  | 1           |
| 20              | 64QAM      | 1       | 1         | 19.48                    | 19.45                       | 19.32                     | 19.50                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 17.41                    | 17.46                       | 17.23                     | 17.50                  | 4.5         |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 21.52                    | 21.48                       | 21.36                     | 22.00                  | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 21.49                    | 21.45                       | 21.38                     | 22.00                  | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 21.51                    | 21.44                       | 21.39                     | 22.00                  | 0           |

**<n71 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    | 23.8                   | 0           |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.86                    | 22.85                       | 22.91                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 22.61                    | 22.74                       | 22.81                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                    | 22.83                       | 22.66                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.75                    | 22.72                       | 22.74                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 22.74                    | 22.69                       | 22.75                     | 23.8                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 22.72                    | 22.73                       | 22.76                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.74                    | 22.71                       | 22.71                     | 23.80                  | 0           |
| 20              | QPSK       | 1       | 1         | 22.66                    | 22.69                       | 22.75                     | 23.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 22.43                    | 22.70                       | 22.67                     |                        |             |
| 20              | QPSK       | 1       | 104       | 22.68                    | 22.71                       | 22.57                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.73                    | 22.59                       | 22.73                     | 23.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 22.63                    | 22.56                       | 22.61                     |                        |             |
| 20              | QPSK       | 50      | 56        | 22.52                    | 22.58                       | 22.66                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.60                    | 22.53                       | 22.62                     | 23.80                  | 0           |
| 20              | 16QAM      | 1       | 1         | 22.52                    | 22.62                       | 22.68                     | 22.80                  | 1           |
| 20              | 64QAM      | 1       | 1         | 22.40                    | 22.36                       | 22.38                     | 22.80                  | 1           |
| 20              | 256QAM     | 1       | 1         | 20.67                    | 20.31                       | 20.44                     | 20.80                  | 3           |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 22.89                    | 22.75                       | 22.82                     | 23.80                  | 0           |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.75                    | 22.79                       | 22.81                     | 23.80                  | 0           |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.69                    | 22.72                       | 22.84                     | 23.80                  | 0           |

**<n41 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 509200                   | 518600                      | 528000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546                     | 2593                        | 2640                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 21.87                    | 22.03                       | 22.24                     |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       | 21.75                    | 22.23                       | 22.34                     | 23.0                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       | 21.91                    | 22.41                       | 22.35                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 21.61                    | 21.98                       | 22.24                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        | 21.59                    | 22.05                       | 22.21                     | 23.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 21.62                    | 22.25                       | 22.15                     |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 21.60                    | 22.06                       | 22.19                     |                        |             |
| 100             | QPSK       | 1       | 1         | 21.73                    | 21.86                       | 22.22                     | 23.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 21.68                    | 22.12                       | 22.26                     |                        |             |
| 100             | QPSK       | 1       | 271       | 21.87                    | 22.24                       | 22.15                     |                        |             |
| 100             | QPSK       | 135     | 0         | 21.46                    | 21.87                       | 22.21                     | 23.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 21.58                    | 21.92                       | 22.12                     |                        |             |
| 100             | QPSK       | 135     | 138       | 21.47                    | 22.23                       | 22.02                     |                        |             |
| 100             | QPSK       | 270     | 0         | 21.55                    | 22.01                       | 22.16                     | 23.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 21.99                    | 22.28                       | 22.53                     | 23.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 20.20                    | 21.91                       | 22.24                     | 23.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 19.00                    | 20.95                       | 20.90                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518600                      | 529000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2541                     | 2593                        | 2645                      |                        |             |
| 90              | QPSK       | 1       | 1         | 21.96                    | 22.12                       | 22.25                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 507200                   | 518600                      | 530000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2536                     | 2593                        | 2650                      |                        |             |
| 80              | QPSK       | 1       | 1         | 21.99                    | 22.21                       | 22.31                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 505200                   | 518600                      | 532000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2526                     | 2593                        | 2660                      |                        |             |
| 60              | QPSK       | 1       | 1         | 21.69                    | 21.84                       | 22.04                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 504200                   | 518600                      | 533000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2521                     | 2593                        | 2665                      |                        |             |
| 50              | QPSK       | 1       | 1         | 21.81                    | 21.92                       | 22.09                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 503200                   | 518600                      | 534000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2516                     | 2593                        | 2670                      |                        |             |
| 40              | QPSK       | 1       | 1         | 22.18                    | 22.50                       | 22.45                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 501200                   | 518600                      | 536000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2506                     | 2593                        | 2680                      |                        |             |
| 20              | QPSK       | 1       | 1         | 21.85                    | 22.13                       | 22.16                     | 23.0                   | 0.0         |

**<DFT-s-OFDM—EN-DC--Reduced Power for At-Head>**
**<n2 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 15.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 13.55                    | 13.83                       | 14.02                     | 15.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 13.70                    | 14.05                       | 14.03                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 13.69                    | 14.00                       | 13.97                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 13.52                    | 13.95                       | 13.97                     | 15.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 28        | 13.55                    | 14.03                       | 13.98                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 56        | 13.63                    | 13.99                       | 13.97                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 13.50                    | 13.98                       | 13.95                     | 15.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 13.36                    | 13.73                       | 14.02                     | 15.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 13.57                    | 13.88                       | 13.94                     |                        |             |
| 20              | QPSK       | 1       | 104       | 13.61                    | 13.95                       | 13.77                     |                        |             |
| 20              | QPSK       | 50      | 0         | 13.51                    | 13.81                       | 13.91                     | 15.0                   | 0.0         |
| 20              | QPSK       | 50      | 28        | 13.50                    | 13.86                       | 13.84                     |                        |             |
| 20              | QPSK       | 50      | 56        | 13.44                    | 13.95                       | 13.95                     |                        |             |
| 20              | QPSK       | 100     | 0         | 13.37                    | 13.85                       | 13.87                     | 15.0                   | 0.0         |
| 20              | 16QAM      | 1       | 1         | 14.06                    | 14.38                       | 14.49                     | 15.0                   | 0.0         |
| 20              | 64QAM      | 1       | 1         | 13.50                    | 13.80                       | 13.86                     | 15.0                   | 0.0         |
| 20              | 256QAM     | 1       | 1         | 13.77                    | 13.98                       | 14.18                     | 15.0                   | 0.0         |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 15.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 13.58                    | 13.79                       | 14.01                     | 15.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 15.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |             |
| 10              | QPSK       | 1       | 1         | 13.50                    | 13.74                       | 13.80                     | 15.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 15.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 13.50                    | 13.76                       | 13.67                     | 15.0                   | 0.0         |

**<n5 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 20.0                   | 0           |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 19.10                    | 19.08                       | 19.01                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 19.08                    | 19.02                       | 18.91                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 19.06                    | 19.04                       | 18.97                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 19.05                    | 19.01                       | 19.01                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 19.03                    | 19.00                       | 19.00                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 19.03                    | 19.01                       | 19.00                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 19.04                    | 18.99                       | 18.95                     |                        |             |
| 20              | QPSK       | 1       | 1         | 19.04                    | 18.88                       | 18.90                     | 20.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 18.94                    | 18.84                       | 18.91                     |                        |             |
| 20              | QPSK       | 1       | 104       | 18.95                    | 19.03                       | 18.85                     |                        |             |
| 20              | QPSK       | 50      | 0         | 18.90                    | 18.89                       | 18.86                     | 20.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 19.02                    | 18.91                       | 18.82                     |                        |             |
| 20              | QPSK       | 50      | 56        | 18.83                    | 18.85                       | 18.91                     |                        |             |
| 20              | QPSK       | 100     | 0         | 18.97                    | 18.81                       | 18.88                     | 20.00                  | 0           |
| 20              | 16QAM      | 1       | 1         | 19.08                    | 19.07                       | 19.05                     | 20.00                  | 0           |
| 20              | 64QAM      | 1       | 1         | 19.09                    | 19.08                       | 19.09                     | 20.00                  | 0           |
| 20              | 256QAM     | 1       | 1         | 19.02                    | 19.08                       | 18.92                     | 20.00                  | 0           |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 18.94                    | 18.93                       | 18.92                     | 20.00                  | 0           |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 18.90                    | 18.92                       | 18.91                     | 20.00                  | 0           |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 18.94                    | 18.92                       | 18.90                     | 20.00                  | 0           |

**<n66 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 14.5                   | 0           |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 13.81                    | 13.72                       | 13.49                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 13.57                    | 13.54                       | 13.36                     | 14.5                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 13.59                    | 13.56                       | 13.38                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 13.60                    | 13.37                       | 13.59                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 13.39                    | 13.32                       | 13.12                     | 14.5                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 13.33                    | 13.30                       | 13.04                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 13.31                    | 13.26                       | 13.05                     | 14.50                  | 1           |
| 20              | QPSK       | 1       | 1         | 13.62                    | 13.62                       | 13.49                     | 14.5                   | 0           |
| 20              | QPSK       | 1       | 53        | 13.51                    | 13.48                       | 13.18                     |                        |             |
| 20              | QPSK       | 1       | 104       | 13.57                    | 13.41                       | 13.25                     |                        |             |
| 20              | QPSK       | 50      | 0         | 13.40                    | 13.33                       | 13.39                     | 14.5                   | 0           |
| 20              | QPSK       | 50      | 28        | 13.21                    | 13.21                       | 13.05                     |                        |             |
| 20              | QPSK       | 50      | 56        | 13.26                    | 13.11                       | 12.90                     |                        |             |
| 20              | QPSK       | 100     | 0         | 13.24                    | 13.07                       | 12.89                     | 14.50                  | 1           |
| 20              | 16QAM      | 1       | 1         | 13.57                    | 13.61                       | 13.27                     | 14.50                  | 1           |
| 20              | 64QAM      | 1       | 1         | 13.80                    | 13.78                       | 13.63                     | 14.50                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 13.57                    | 13.54                       | 13.18                     | 14.50                  | 4.5         |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 13.58                    | 13.55                       | 13.32                     | 14.50                  | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 13.44                    | 13.23                       | 13.07                     | 14.50                  | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 13.50                    | 13.30                       | 13.03                     | 14.50                  | 0           |



**<n71 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 19.0                   | 0           |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 20.81                    | 20.72                       | 20.49                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 20.57                    | 20.54                       | 20.36                     | 19.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 20.59                    | 20.56                       | 20.38                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 20.60                    | 20.37                       | 20.59                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 20.39                    | 20.32                       | 20.12                     | 19.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 20.33                    | 20.30                       | 20.04                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 20.31                    | 20.26                       | 20.05                     |                        |             |
| 20              | QPSK       | 1       | 1         | 20.65                    | 20.56                       | 20.35                     | 19.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 20.40                    | 20.39                       | 20.35                     |                        |             |
| 20              | QPSK       | 1       | 104       | 20.52                    | 20.41                       | 20.31                     |                        |             |
| 20              | QPSK       | 50      | 0         | 20.41                    | 20.31                       | 20.59                     | 19.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 20.27                    | 20.27                       | 19.98                     |                        |             |
| 20              | QPSK       | 50      | 56        | 20.16                    | 20.17                       | 19.97                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.20                    | 20.15                       | 20.03                     | 19.00                  | 0           |
| 20              | 16QAM      | 1       | 1         | 20.57                    | 20.61                       | 20.27                     | 19.00                  | 0           |
| 20              | 64QAM      | 1       | 1         | 20.80                    | 20.78                       | 20.63                     | 19.00                  | 0           |
| 20              | 256QAM     | 1       | 1         | 20.57                    | 20.54                       | 20.18                     | 19.00                  | 0           |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 20.58                    | 20.55                       | 20.32                     | 19.00                  | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 20.44                    | 20.23                       | 20.07                     | 19.00                  | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 20.50                    | 20.30                       | 20.03                     | 19.00                  | 0           |



**<UAT n41>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 509200                   | 518600                      | 528000                    |                        |             |
| Frequency (MHz) |            |         |           | 2546                     | 2593                        | 2640                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 14.77                    | 15.03                       | 15.39                     | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       | 14.78                    | 15.23                       | 15.31                     |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 14.73                    | 15.24                       | 15.07                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 14.60                    | 15.00                       | 15.14                     | 16.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        | 14.68                    | 15.13                       | 15.20                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 138       | 14.61                    | 15.12                       | 15.11                     |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 14.58                    | 14.98                       | 15.10                     | 16.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 14.58                    | 14.90                       | 15.30                     | 16.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 14.63                    | 15.16                       | 15.14                     |                        |             |
| 100             | QPSK       | 1       | 271       | 14.69                    | 15.20                       | 15.00                     |                        |             |
| 100             | QPSK       | 135     | 0         | 14.46                    | 14.81                       | 15.03                     | 16.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 14.64                    | 15.02                       | 15.00                     |                        |             |
| 100             | QPSK       | 135     | 138       | 14.42                    | 15.06                       | 14.94                     |                        |             |
| 100             | QPSK       | 270     | 0         | 14.47                    | 14.79                       | 14.98                     | 16.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 14.97                    | 15.14                       | 15.45                     | 16.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.79                    | 15.15                       | 15.31                     | 16.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.10                    | 15.23                       | 15.30                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518600                      | 529000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                     | 2593                        | 2645                      |                        |             |
| 90              | QPSK       | 1       | 1         | 14.73                    | 15.03                       | 15.25                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 507200                   | 518600                      | 530000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536                     | 2593                        | 2650                      |                        |             |
| 80              | QPSK       | 1       | 1         | 14.77                    | 15.00                       | 15.36                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 505200                   | 518600                      | 532000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                     | 2593                        | 2660                      |                        |             |
| 60              | QPSK       | 1       | 1         | 14.51                    | 14.98                       | 15.05                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 504200                   | 518600                      | 533000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521                     | 2593                        | 2665                      |                        |             |
| 50              | QPSK       | 1       | 1         | 14.50                    | 14.80                       | 15.05                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 503200                   | 518600                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2516                     | 2593                        | 2670                      |                        |             |
| 40              | QPSK       | 1       | 1         | 15.16                    | 15.48                       | 15.36                     | 16.5                   | 0.0         |
| Channel         |            |         |           | 501200                   | 518600                      | 536000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2506                     | 2593                        | 2680                      |                        |             |
| 20              | QPSK       | 1       | 1         | 14.70                    | 15.01                       | 15.20                     | 16.5                   | 0.0         |



**<DFT-s-OFDM—EN-DC--Reduced Power for Hotspot On>**

**<n2 – LAT>**

| BW [MHz]        |           |     |     | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|-----------|-----|-----|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|
| Channel         |           |     |     |            | 372000  | 376000    | 380000                   |                             |                           |                           |             |
| Frequency (MHz) |           |     |     |            | 1860    | 1880      | 1900                     |                             |                           |                           |             |
| 20              | PI/2 BPSK | 1   | 1   |            | 20.03   | 20.15     | 20.33                    | 21.0                        | 0.0                       |                           |             |
| 20              | PI/2 BPSK | 1   | 53  |            | 19.82   | 19.78     | 20.10                    |                             |                           |                           |             |
| 20              | PI/2 BPSK | 1   | 104 |            | 20.09   | 20.24     | 20.20                    |                             |                           |                           |             |
| 20              | PI/2 BPSK | 50  | 0   |            | 20.00   | 20.19     | 20.24                    | 21.0                        | 0.0                       |                           |             |
| 20              | PI/2 BPSK | 50  | 28  |            | 19.81   | 20.15     | 20.21                    |                             |                           |                           |             |
| 20              | PI/2 BPSK | 50  | 56  |            | 19.91   | 20.18     | 20.15                    |                             |                           |                           |             |
| 20              | PI/2 BPSK | 100 | 0   |            | 19.77   | 20.18     | 20.20                    | 21.0                        | 0.0                       |                           |             |
| 20              | QPSK      | 1   | 1   |            | 20.01   | 20.13     | 20.15                    | 21.0                        | 0.0                       |                           |             |
| 20              | QPSK      | 1   | 53  |            | 19.68   | 19.66     | 19.92                    |                             |                           |                           |             |
| 20              | QPSK      | 1   | 104 |            | 20.07   | 20.06     | 20.15                    |                             |                           |                           |             |
| 20              | QPSK      | 50  | 0   |            | 19.90   | 20.10     | 20.05                    | 21.0                        | 0.0                       |                           |             |
| 20              | QPSK      | 50  | 28  |            | 19.70   | 20.05     | 20.17                    |                             |                           |                           |             |
| 20              | QPSK      | 50  | 56  |            | 19.89   | 20.16     | 19.98                    |                             |                           |                           |             |
| 20              | QPSK      | 100 | 0   |            | 19.74   | 20.18     | 20.10                    | 21.0                        | 0.0                       |                           |             |
| 20              | 16QAM     | 1   | 1   |            | 19.94   | 20.04     | 20.26                    | 21.0                        | 0.0                       |                           |             |
| 20              | 64QAM     | 1   | 1   |            | 19.48   | 19.67     | 19.79                    | 20.5                        | 0.5                       |                           |             |
| 20              | 256QAM    | 1   | 1   |            | 16.57   | 17.22     | 17.73                    | 18.5                        | 2.5                       |                           |             |
| Channel         |           |     |     |            | 371500  | 376000    | 380500                   | Tune-up<br>limit<br>(dBm)   | MPR<br>(dB)               |                           |             |
| Frequency (MHz) |           |     |     |            | 1857.5  | 1880      | 1902.5                   |                             |                           |                           |             |
| 15              | QPSK      | 1   | 1   |            | 20.02   | 20.28     | 20.32                    | 21.0                        | 0.0                       |                           |             |
| Channel         |           |     |     |            | 371000  | 376000    | 381000                   | Tune-up<br>limit<br>(dBm)   | MPR<br>(dB)               |                           |             |
| Frequency (MHz) |           |     |     |            | 1855    | 1880      | 1905                     |                             |                           |                           |             |
| 10              | QPSK      | 1   | 1   |            | 19.79   | 20.06     | 20.03                    | 21.0                        | 0.0                       |                           |             |
| Channel         |           |     |     |            | 370500  | 376000    | 381500                   | Tune-up<br>limit<br>(dBm)   | MPR<br>(dB)               |                           |             |
| Frequency (MHz) |           |     |     |            | 1852.5  | 1880      | 1907.5                   |                             |                           |                           |             |
| 5               | QPSK      | 1   | 1   |            | 19.79   | 20.05     | 20.03                    | 21.0                        | 0.0                       |                           |             |

**<n5 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 23.3                   | 0           |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.66                    | 22.59                       | 22.57                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 22.45                    | 22.52                       | 22.49                     | 23.3                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 22.46                    | 19.47                       | 22.39                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.51                    | 22.55                       | 22.54                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 22.55                    | 22.58                       | 22.51                     | 23.3                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 22.60                    | 22.52                       | 22.52                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.53                    | 22.57                       | 22.49                     |                        |             |
| 20              | QPSK       | 1       | 1         | 22.56                    | 22.40                       | 22.45                     | 23.3                   | 0           |
| 20              | QPSK       | 1       | 53        | 22.32                    | 22.48                       | 22.35                     |                        |             |
| 20              | QPSK       | 1       | 104       | 22.27                    | 19.35                       | 22.37                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.32                    | 22.45                       | 22.35                     | 23.3                   | 0           |
| 20              | QPSK       | 50      | 28        | 22.51                    | 22.41                       | 22.42                     |                        |             |
| 20              | QPSK       | 50      | 56        | 22.45                    | 22.35                       | 22.47                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.39                    | 22.50                       | 22.39                     | 23.30                  | 0           |
| 20              | 16QAM      | 1       | 1         | 22.63                    | 22.64                       | 22.56                     | 23.30                  | 0           |
| 20              | 64QAM      | 1       | 1         | 22.62                    | 22.58                       | 22.55                     | 23.30                  | 0           |
| 20              | 256QAM     | 1       | 1         | 22.65                    | 22.62                       | 22.59                     | 23.30                  | 0           |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 22.58                    | 22.50                       | 22.63                     | 23.30                  | 0           |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 22.34                    | 22.28                       | 22.35                     | 23.30                  | 0           |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 22.36                    | 22.33                       | 22.25                     | 23.30                  | 0           |



**<n66 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 22.30                    | 22.32                       | 22.18                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 22.26                    | 22.30                       | 22.14                     | 23.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 104       | 22.24                    | 22.29                       | 22.12                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.27                    | 22.30                       | 22.12                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 22.26                    | 22.28                       | 22.16                     | 23.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 22.23                    | 22.27                       | 22.17                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 21.26                    | 21.27                       | 21.22                     |                        |             |
| 20              | QPSK       | 1       | 1         | 22.15                    | 22.22                       | 22.01                     | 23.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 22.23                    | 22.13                       | 21.96                     |                        |             |
| 20              | QPSK       | 1       | 104       | 22.21                    | 22.10                       | 22.07                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.25                    | 22.16                       | 22.11                     | 23.0                   | 0.0         |
| 20              | QPSK       | 50      | 28        | 22.17                    | 22.16                       | 22.14                     |                        |             |
| 20              | QPSK       | 50      | 56        | 22.07                    | 22.26                       | 22.03                     |                        |             |
| 20              | QPSK       | 100     | 0         | 21.25                    | 21.23                       | 21.14                     | 22.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 21.53                    | 21.47                       | 21.45                     | 22.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.09                    | 20.13                       | 20.13                     | 20.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.10                    | 17.99                       | 17.99                     | 18.5                   | 4.5         |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 22.23                    | 22.26                       | 22.10                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.16                    | 22.24                       | 22.10                     | 23.0                   | 0.0         |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 22.13                    | 22.05                       | 22.03                     | 23.0                   | 0.0         |

**<n71 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    | 22.3                   | 0           |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 20.74                    | 20.56                       | 20.53                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 20.44                    | 20.22                       | 20.32                     | 22.3                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 20.39                    | 20.34                       | 20.19                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 20.65                    | 20.53                       | 20.48                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 20.51                    | 20.44                       | 20.45                     | 22.3                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 20.26                    | 20.31                       | 20.33                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 20.46                    | 20.42                       | 20.44                     | 22.30                  | 0           |
| 20              | QPSK       | 1       | 1         | 20.68                    | 20.43                       | 20.38                     | 22.3                   | 0           |
| 20              | QPSK       | 1       | 53        | 20.26                    | 20.03                       | 20.31                     |                        |             |
| 20              | QPSK       | 1       | 104       | 20.25                    | 20.34                       | 20.18                     |                        |             |
| 20              | QPSK       | 50      | 0         | 20.48                    | 20.36                       | 20.45                     | 22.3                   | 0           |
| 20              | QPSK       | 50      | 28        | 20.36                    | 20.44                       | 20.43                     |                        |             |
| 20              | QPSK       | 50      | 56        | 20.21                    | 20.17                       | 20.27                     |                        |             |
| 20              | QPSK       | 100     | 0         | 20.44                    | 20.35                       | 20.30                     | 22.30                  | 0           |
| 20              | 16QAM      | 1       | 1         | 20.45                    | 20.22                       | 20.30                     | 22.30                  | 0           |
| 20              | 64QAM      | 1       | 1         | 20.73                    | 20.72                       | 20.72                     | 22.30                  | 0           |
| 20              | 256QAM     | 1       | 1         | 20.72                    | 20.66                       | 20.68                     | 21.50                  | 0.8         |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 20.73                    | 20.48                       | 20.45                     | 22.30                  | 0           |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 20.47                    | 20.36                       | 20.29                     | 22.30                  | 0           |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 20.48                    | 20.30                       | 20.15                     | 22.30                  | 0           |

**<n41 – LAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509200                | 518600                   | 528000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 20.15                 | 20.33                    | 20.05                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 19.92                 | 20.12                    | 19.76                  | 21.0                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 19.65                 | 20.07                    | 19.71                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 20.07                 | 20.09                    | 19.89                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 19.92                 | 20.04                    | 19.82                  | 21.0                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 19.74                 | 20.03                    | 19.85                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 19.94                 | 20.01                    | 19.89                  |                     |          |
| 100             | QPSK       | 1       | 1         | 20.07                 | 20.26                    | 19.93                  | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 19.85                 | 19.92                    | 19.72                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.59                 | 19.94                    | 19.65                  |                     |          |
| 100             | QPSK       | 135     | 0         | 19.97                 | 19.98                    | 19.86                  | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 19.84                 | 19.87                    | 19.74                  |                     |          |
| 100             | QPSK       | 135     | 138       | 19.58                 | 19.90                    | 19.72                  |                     |          |
| 100             | QPSK       | 270     | 0         | 19.87                 | 19.99                    | 19.71                  | 21.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.14                 | 20.31                    | 19.90                  | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.14                 | 20.30                    | 20.02                  | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 20.05                 | 20.14                    | 19.76                  | 21.0                | 0.0      |
| Channel         |            |         |           | 508200                | 518600                   | 529000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 19.90                 | 19.92                    | 19.89                  | 21.0                | 0.0      |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 |                     |          |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   | 21.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 19.85                 | 19.87                    | 19.83                  |                     |          |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 19.82                 | 19.81                    | 19.80                  | 21.0                | 0.0      |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 |                     |          |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   | 21.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 19.84                 | 19.86                    | 19.85                  |                     |          |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.82                 | 19.85                    | 19.82                  | 21.0                | 0.0      |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   | 21.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 19.85                 | 19.87                    | 19.82                  |                     |          |

**<n2 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    |                        |             |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 18.14                    | 18.46                       | 18.48                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 17.90                    | 18.45                       | 18.44                     | 19.5                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 18.13                    | 18.43                       | 18.41                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 17.87                    | 18.33                       | 18.44                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 17.86                    | 18.48                       | 18.49                     | 19.5                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 18.01                    | 18.51                       | 18.52                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 17.85                    | 18.47                       | 18.48                     | 19.50                  | 0           |
| 20              | QPSK       | 1       | 1         | 18.02                    | 18.32                       | 18.32                     | 19.5                   | 0           |
| 20              | QPSK       | 1       | 53        | 17.77                    | 18.34                       | 18.24                     |                        |             |
| 20              | QPSK       | 1       | 104       | 17.95                    | 18.29                       | 18.39                     |                        |             |
| 20              | QPSK       | 50      | 0         | 17.70                    | 18.20                       | 18.40                     | 19.5                   | 0           |
| 20              | QPSK       | 50      | 28        | 17.86                    | 18.48                       | 18.43                     |                        |             |
| 20              | QPSK       | 50      | 56        | 18.00                    | 18.37                       | 18.43                     |                        |             |
| 20              | QPSK       | 100     | 0         | 17.83                    | 18.27                       | 18.35                     | 19.50                  | 0           |
| 20              | 16QAM      | 1       | 1         | 18.08                    | 18.35                       | 18.64                     | 19.50                  | 0           |
| 20              | 64QAM      | 1       | 1         | 16.42                    | 16.77                       | 17.02                     | 19.50                  | 0           |
| 20              | 256QAM     | 1       | 1         | 14.87                    | 15.07                       | 15.30                     | 19.50                  | 0           |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 18.00                    | 18.27                       | 18.53                     | 19.50                  | 0           |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 17.98                    | 18.15                       | 18.50                     | 19.50                  | 0           |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 17.98                    | 18.24                       | 18.49                     | 19.50                  | 0           |

**<n5 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 20.0                   | 0           |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 19.43                    | 19.48                       | 19.38                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 19.28                    | 19.32                       | 19.26                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 19.27                    | 19.31                       | 19.10                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 19.37                    | 19.39                       | 19.36                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 19.30                    | 19.35                       | 19.35                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 19.26                    | 19.29                       | 19.26                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 19.33                    | 19.41                       | 19.31                     |                        |             |
| 20              | QPSK       | 1       | 1         | 19.38                    | 19.37                       | 19.18                     | 20.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 19.10                    | 19.32                       | 19.23                     |                        |             |
| 20              | QPSK       | 1       | 104       | 19.24                    | 19.13                       | 18.93                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.18                    | 19.28                       | 19.32                     | 20.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 19.16                    | 19.34                       | 19.19                     |                        |             |
| 20              | QPSK       | 50      | 56        | 19.24                    | 19.17                       | 19.19                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.29                    | 19.38                       | 19.16                     | 20.00                  | 0           |
| 20              | 16QAM      | 1       | 1         | 19.18                    | 19.26                       | 19.18                     | 20.00                  | 0           |
| 20              | 64QAM      | 1       | 1         | 19.41                    | 19.47                       | 19.46                     | 20.00                  | 0           |
| 20              | 256QAM     | 1       | 1         | 19.42                    | 19.45                       | 19.45                     | 20.00                  | 0           |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 19.39                    | 19.44                       | 19.39                     | 20.00                  | 0           |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 19.22                    | 19.12                       | 19.22                     | 20.00                  | 0           |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 19.16                    | 19.27                       | 19.14                     | 20.00                  | 0           |

**<n66 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | 20.0                   | 0           |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 18.60                    | 18.64                       | 18.56                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 18.55                    | 18.61                       | 18.55                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 18.57                    | 18.62                       | 18.53                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 18.59                    | 18.62                       | 18.50                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 18.55                    | 18.61                       | 18.51                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 18.53                    | 18.58                       | 18.52                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 17.58                    | 17.59                       | 17.54                     | 19.00                  | 1           |
| 20              | QPSK       | 1       | 1         | 18.56                    | 18.58                       | 18.46                     | 20.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 18.39                    | 18.53                       | 18.45                     |                        |             |
| 20              | QPSK       | 1       | 104       | 18.47                    | 18.43                       | 18.43                     |                        |             |
| 20              | QPSK       | 50      | 0         | 18.44                    | 18.52                       | 18.43                     | 20.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 18.52                    | 18.49                       | 18.38                     |                        |             |
| 20              | QPSK       | 50      | 56        | 18.47                    | 18.43                       | 18.42                     |                        |             |
| 20              | QPSK       | 100     | 0         | 17.44                    | 17.44                       | 17.35                     | 19.00                  | 1           |
| 20              | 16QAM      | 1       | 1         | 17.81                    | 17.68                       | 17.71                     | 19.00                  | 1           |
| 20              | 64QAM      | 1       | 1         | 16.48                    | 16.51                       | 16.49                     | 17.50                  | 2.5         |
| 20              | 256QAM     | 1       | 1         | 14.59                    | 14.51                       | 14.27                     | 15.50                  | 4.5         |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 18.56                    | 18.55                       | 18.53                     | 20.00                  | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 18.48                    | 18.49                       | 18.42                     | 20.00                  | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 18.46                    | 18.43                       | 18.34                     | 20.00                  | 0           |



**<n71 – UAT>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    | 20.0                   | 0           |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 19.28                    | 19.11                       | 19.05                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 18.96                    | 18.79                       | 18.73                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 1       | 104       | 18.84                    | 18.66                       | 18.61                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 19.09                    | 19.04                       | 18.89                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 28        | 19.05                    | 18.94                       | 18.92                     | 20.0                   | 0           |
| 20              | PI/2 BPSK  | 50      | 56        | 18.89                    | 18.69                       | 18.65                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 19.03                    | 18.99                       | 18.86                     | 20.00                  | 0           |
| 20              | QPSK       | 1       | 1         | 19.22                    | 19.06                       | 18.88                     | 20.0                   | 0           |
| 20              | QPSK       | 1       | 53        | 18.82                    | 18.60                       | 18.65                     |                        |             |
| 20              | QPSK       | 1       | 104       | 18.82                    | 18.57                       | 18.50                     |                        |             |
| 20              | QPSK       | 50      | 0         | 18.91                    | 18.95                       | 18.83                     | 20.0                   | 0           |
| 20              | QPSK       | 50      | 28        | 19.00                    | 18.87                       | 18.77                     |                        |             |
| 20              | QPSK       | 50      | 56        | 18.77                    | 18.69                       | 18.53                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.01                    | 18.99                       | 18.85                     | 20.00                  | 0           |
| 20              | 16QAM      | 1       | 1         | 18.97                    | 18.89                       | 18.92                     | 20.00                  | 0           |
| 20              | 64QAM      | 1       | 1         | 19.21                    | 19.05                       | 19.02                     | 20.00                  | 0           |
| 20              | 256QAM     | 1       | 1         | 19.23                    | 19.13                       | 19.09                     | 20.00                  | 0           |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 19.16                    | 19.09                       | 19.01                     | 20.00                  | 0           |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       | (dBm)                  | (dB)        |
| 10              | QPSK       | 1       | 1         | 19.02                    | 18.99                       | 18.94                     | 20.00                  | 0           |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     | (dBm)                  | (dB)        |
| 5               | QPSK       | 1       | 1         | 18.98                    | 18.92                       | 18.91                     | 20.00                  | 0           |

**<UAT n41>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 509200                   | 518600                      | 528000                    | 19.5                   | 0           |
| Frequency (MHz) |            |         |           | 2546                     | 2593                        | 2640                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 18.60                    | 19.06                       | 19.18                     |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       | 18.61                    | 19.33                       | 19.34                     | 19.5                   | 0           |
| 100             | PI/2 BPSK  | 1       | 271       | 18.50                    | 19.32                       | 19.23                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 18.52                    | 19.19                       | 19.31                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        | 18.48                    | 19.07                       | 19.28                     | 19.5                   | 0           |
| 100             | PI/2 BPSK  | 135     | 138       | 18.45                    | 19.18                       | 19.27                     |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 18.41                    | 19.01                       | 19.24                     |                        |             |
| 100             | QPSK       | 1       | 1         | 18.50                    | 19.02                       | 18.99                     | 19.5                   | 0           |
| 100             | QPSK       | 1       | 137       | 18.61                    | 19.31                       | 19.16                     |                        |             |
| 100             | QPSK       | 1       | 271       | 18.47                    | 19.13                       | 19.12                     |                        |             |
| 100             | QPSK       | 135     | 0         | 18.49                    | 19.06                       | 19.13                     | 19.5                   | 0           |
| 100             | QPSK       | 135     | 69        | 18.46                    | 18.91                       | 19.10                     |                        |             |
| 100             | QPSK       | 135     | 138       | 18.36                    | 19.06                       | 19.25                     |                        |             |
| 100             | QPSK       | 270     | 0         | 18.36                    | 18.97                       | 19.18                     | 19.50                  | 0           |
| 100             | 16QAM      | 1       | 1         | 18.89                    | 19.19                       | 19.45                     | 19.50                  | 0           |
| 100             | 64QAM      | 1       | 1         | 18.54                    | 18.69                       | 19.10                     | 19.50                  | 0           |
| 100             | 256QAM     | 1       | 1         | 18.63                    | 19.02                       | 19.26                     | 19.50                  | 0           |
| Channel         |            |         |           | 508200                   | 518600                      | 529000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2541                     | 2593                        | 2645                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 18.65                    | 18.98                       | 19.08                     | 19.50                  | 0           |
| Channel         |            |         |           | 507200                   | 518600                      | 530000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2536                     | 2593                        | 2650                      | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.63                    | 19.05                       | 19.20                     | 19.50                  | 0           |
| Channel         |            |         |           | 505200                   | 518600                      | 532000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2526                     | 2593                        | 2660                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.70                    | 18.68                       | 19.21                     | 19.50                  | 0           |
| Channel         |            |         |           | 504200                   | 518600                      | 533000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2521                     | 2593                        | 2665                      | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 18.69                    | 18.72                       | 19.17                     | 19.50                  | 0           |
| Channel         |            |         |           | 503200                   | 518600                      | 534000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2516                     | 2593                        | 2670                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 19.04                    | 19.45                       | 19.58                     | 19.50                  | 0           |
| Channel         |            |         |           | 501200                   | 518600                      | 536000                    | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2506                     | 2593                        | 2680                      | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 18.62                    | 18.96                       | 19.13                     | 19.50                  | 0           |

## **15. WiFi/Bluetooth Output Power (Unit: dBm)**

### **General Note:**

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA)
6. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
7. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
8. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel
9. When WLAN transmit simultaneous with WWAN will limit different maximum output power level as following, detail description include operational description
  - a. Level 1: the WLAN is transmitting standalone
  - b. Level 2: the WWAN transmit simultaneous with 2.4GHz WLAN or 5GHz WLAN
  - c. Level 3: the WWAN and FR1 or nter-band CA transmit simultaneous with 2.4GHz WLAN or 5GHz WLAN + Bluetooth



<For At-Head Mode level 1>

<2.4GHz WLAN>

| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11b 1Mbps      | 1       | 2412            | 14.71               | 16.71         | 100.00       |
|             |                    | 6       | 2437            | 14.66               | 16.66         |              |
|             |                    | 11      | 2462            | 14.91               | 16.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 13.71               | 15.71         | 99.18        |
|             |                    | 6       | 2437            | 13.56               | 15.56         |              |
|             |                    | 11      | 2462            | 13.71               | 15.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 14.81               | 16.81         | 99.12        |
|             |                    | 6       | 2437            | 14.76               | 16.76         |              |
|             |                    | 11      | 2462            | 14.81               | 16.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 14.76               | 16.76         | 98.31        |
|             |                    | 6       | 2437            | 14.86               | 16.86         |              |
|             |                    | 11      | 2462            | 14.81               | 16.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 14.61               | 16.61         | 96.13        |
|             |                    | 6       | 2437            | 14.51               | 16.51         |              |
|             |                    | 9       | 2452            | 14.36               | 16.36         |              |



## &lt;5GHz WLAN&gt;

| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 36      | 5180            | 18.36               | 20.36         | 98.46        |
|             |                     | 40      | 5200            | 18.30               | 20.30         |              |
|             |                     | 44      | 5220            | 18.33               | 20.33         |              |
|             |                     | 48      | 5240            | 18.34               | 20.34         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 18.24               | 20.24         | 98.79        |
|             |                     | 40      | 5200            | 18.18               | 20.18         |              |
|             |                     | 44      | 5220            | 18.22               | 20.22         |              |
|             |                     | 48      | 5240            | 18.29               | 20.29         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 19.72               | 21.72         | 98.08        |
|             |                     | 46      | 5230            | 19.71               | 21.71         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 18.19               | 20.19         | 98.11        |
|             |                     | 40      | 5200            | 18.16               | 20.16         |              |
|             |                     | 44      | 5220            | 18.20               | 20.20         |              |
|             |                     | 48      | 5240            | 18.28               | 20.28         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 19.66               | 21.66         | 95.88        |
|             |                     | 46      | 5230            | 19.68               | 21.68         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 18.26               | 20.26         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 18.31               | 20.31         | 97.79        |
|             |                     | 40      | 5200            | 18.32               | 20.32         |              |
|             |                     | 44      | 5220            | 18.33               | 20.33         |              |
|             |                     | 48      | 5240            | 17.99               | 19.99         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 19.30               | 21.30         | 97.30        |
|             |                     | 46      | 5230            | 19.34               | 21.34         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 18.79               | 20.79         | 95.55        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 18.39               | 20.39         | 98.46        |
|             |                     | 56      | 5280            | 18.33               | 20.33         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.41               | 20.41         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 18.40               | 20.40         | 98.79        |
|             |                     | 56      | 5280            | 18.32               | 20.32         |              |
|             |                     | 60      | 5300            | 18.39               | 20.39         |              |
|             |                     | 64      | 5320            | 18.49               | 20.49         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 19.91               | 21.91         | 98.08        |
|             |                     | 62      | 5310            | 19.80               | 21.80         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 18.36               | 20.36         | 98.11        |
|             |                     | 56      | 5280            | 18.30               | 20.30         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.47               | 20.47         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 19.87               | 21.87         | 95.88        |
|             |                     | 62      | 5310            | 19.75               | 21.75         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 18.23               | 20.23         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 18.46               | 20.46         | 97.79        |
|             |                     | 56      | 5280            | 18.45               | 20.45         |              |
|             |                     | 60      | 5300            | 18.48               | 20.48         |              |
|             |                     | 64      | 5320            | 18.55               | 20.55         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 19.51               | 21.51         | 97.30        |
|             |                     | 62      | 5310            | 19.40               | 21.40         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 18.87               | 20.87         | 95.55        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 16.22               | 18.22         | 98.46        |
|             |                     | 116     | 5580            | 16.18               | 18.18         |              |
|             |                     | 124     | 5620            | 16.16               | 18.16         |              |
|             |                     | 132     | 5660            | 16.14               | 18.14         |              |
|             |                     | 144     | 5720            | 15.91               | 17.91         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 16.04               | 18.04         | 98.79        |
|             |                     | 116     | 5580            | 15.92               | 17.92         |              |
|             |                     | 124     | 5620            | 16.01               | 18.01         |              |
|             |                     | 132     | 5660            | 16.00               | 18.00         |              |
|             |                     | 144     | 5720            | 15.42               | 17.42         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 17.40               | 19.40         | 98.08        |
|             |                     | 110     | 5550            | 17.44               | 19.44         |              |
|             |                     | 126     | 5630            | 17.22               | 19.22         |              |
|             |                     | 134     | 5670            | 17.01               | 19.01         |              |
|             |                     | 142     | 5710            | 16.83               | 18.83         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 15.99               | 17.99         | 98.11        |
|             |                     | 116     | 5580            | 15.90               | 17.90         |              |
|             |                     | 124     | 5620            | 15.96               | 17.96         |              |
|             |                     | 132     | 5660            | 15.94               | 17.94         |              |
|             |                     | 140     | 5700            | 15.38               | 17.38         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 17.34               | 19.34         | 95.88        |
|             |                     | 110     | 5550            | 17.40               | 19.40         |              |
|             |                     | 126     | 5630            | 17.20               | 19.20         |              |
|             |                     | 134     | 5670            | 16.97               | 18.97         |              |
|             |                     | 142     | 5710            | 16.79               | 18.79         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 16.18               | 18.18         | 93.21        |
|             |                     | 122     | 5610            | 16.13               | 18.13         |              |
|             |                     | 138     | 5690            | 15.92               | 17.92         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 16.07               | 18.07         | 97.79        |
|             |                     | 116     | 5580            | 15.89               | 17.89         |              |
|             |                     | 124     | 5620            | 15.73               | 17.73         |              |
|             |                     | 132     | 5660            | 15.65               | 17.65         |              |
|             |                     | 144     | 5720            | 15.41               | 17.41         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 16.95               | 18.95         | 97.30        |
|             |                     | 110     | 5550            | 16.95               | 18.95         |              |
|             |                     | 126     | 5630            | 16.85               | 18.85         |              |
|             |                     | 134     | 5670            | 16.51               | 18.51         |              |
|             |                     | 142     | 5710            | 16.36               | 18.36         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 16.84               | 18.84         | 95.55        |
|             |                     | 122     | 5610            | 16.39               | 18.39         |              |
|             |                     | 138     | 5690            | 16.14               | 18.14         |              |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 16.54               | 18.54         | 99.18        |
|             |                     | 157     | 5785            | 16.31               | 18.31         |              |
|             |                     | 165     | 5825            | 16.28               | 18.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 16.11               | 18.11         | 99.12        |
|             |                     | 157     | 5785            | 15.84               | 17.84         |              |
|             |                     | 165     | 5825            | 15.85               | 17.85         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 17.52               | 19.52         | 98.08        |
|             |                     | 159     | 5795            | 17.23               | 19.23         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.09               | 18.09         | 98.30        |
|             |                     | 157     | 5785            | 15.83               | 17.83         |              |
|             |                     | 165     | 5825            | 15.78               | 17.78         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.44               | 19.44         | 96.69        |
|             |                     | 159     | 5795            | 17.15               | 19.15         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.23               | 18.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.20               | 18.20         | 99.33        |
|             |                     | 157     | 5785            | 15.95               | 17.95         |              |
|             |                     | 165     | 5825            | 15.88               | 17.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 17.14               | 19.14         | 97.82        |
|             |                     | 159     | 5795            | 16.79               | 18.79         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.47               | 18.47         | 95.88        |

**<For Hotspot Mode level 1>**
**<2.4GHz WLAN>**

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 15.71               | 17.71         | 100.00       |
|             |                    | 6       | 2437            | 15.66               | 17.66         |              |
|             |                    | 11      | 2462            | 15.91               | 17.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 14.71               | 16.71         | 99.18        |
|             |                    | 6       | 2437            | 14.56               | 16.56         |              |
|             |                    | 11      | 2462            | 14.71               | 16.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 15.81               | 17.81         | 99.12        |
|             |                    | 6       | 2437            | 15.76               | 17.76         |              |
|             |                    | 11      | 2462            | 15.81               | 17.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.76               | 17.76         | 98.31        |
|             |                    | 6       | 2437            | 15.86               | 17.86         |              |
|             |                    | 11      | 2462            | 15.81               | 17.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 15.61               | 17.61         | 96.13        |
|             |                    | 6       | 2437            | 15.56               | 17.56         |              |
|             |                    | 9       | 2452            | 15.36               | 17.36         |              |

<5GHz WLAN>

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 16.35               | 18.35         | 98.46        |
|             |                     | 40      | 5200            | 16.30               | 18.30         |              |
|             |                     | 44      | 5220            | 16.34               | 18.34         |              |
|             |                     | 48      | 5240            | 16.33               | 18.33         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 16.24               | 18.24         | 98.79        |
|             |                     | 40      | 5200            | 16.18               | 18.18         |              |
|             |                     | 44      | 5220            | 16.23               | 18.23         |              |
|             |                     | 48      | 5240            | 16.29               | 18.29         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 17.73               | 19.73         | 98.08        |
|             |                     | 46      | 5230            | 17.72               | 19.72         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.18               | 18.18         | 98.11        |
|             |                     | 40      | 5200            | 16.13               | 18.13         |              |
|             |                     | 44      | 5220            | 16.20               | 18.20         |              |
|             |                     | 48      | 5240            | 16.27               | 18.27         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.66               | 19.66         | 95.88        |
|             |                     | 46      | 5230            | 17.68               | 19.68         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 16.25               | 18.25         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 16.31               | 18.31         | 97.79        |
|             |                     | 40      | 5200            | 16.08               | 18.08         |              |
|             |                     | 44      | 5220            | 16.10               | 18.10         |              |
|             |                     | 48      | 5240            | 16.37               | 18.37         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.29               | 19.29         | 97.30        |
|             |                     | 46      | 5230            | 17.33               | 19.33         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.77               | 18.77         | 95.55        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 13.54               | 15.54         | 99.18        |
|             |                     | 157     | 5785            | 13.29               | 15.29         |              |
|             |                     | 165     | 5825            | 13.28               | 15.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 13.10               | 15.10         | 99.12        |
|             |                     | 157     | 5785            | 12.84               | 14.84         |              |
|             |                     | 165     | 5825            | 12.84               | 14.84         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.52               | 16.52         | 98.08        |
|             |                     | 159     | 5795            | 14.24               | 16.24         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 13.07               | 15.07         | 98.30        |
|             |                     | 157     | 5785            | 12.83               | 14.83         |              |
|             |                     | 165     | 5825            | 12.76               | 14.76         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 14.42               | 16.42         | 96.69        |
|             |                     | 159     | 5795            | 14.17               | 16.17         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.23               | 15.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 13.20               | 15.20         | 99.33        |
|             |                     | 157     | 5785            | 12.93               | 14.93         |              |
|             |                     | 165     | 5825            | 12.88               | 14.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 14.14               | 16.14         | 97.82        |
|             |                     | 159     | 5795            | 13.78               | 15.78         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 13.45               | 15.45         | 95.88        |

**<For Body-worn / Product Specific Mode level 1>**

**<2.4GHz WLAN>**

| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11b 1Mbps      | 1       | 2412            | 16.71               | 18.71         | 100.00       |
|             |                    | 6       | 2437            | 16.66               | 18.66         |              |
|             |                    | 11      | 2462            | 16.91               | 18.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 15.71               | 17.71         | 99.18        |
|             |                    | 6       | 2437            | 15.61               | 17.61         |              |
|             |                    | 11      | 2462            | 15.71               | 17.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 16.76               | 18.76         | 99.12        |
|             |                    | 6       | 2437            | 16.71               | 18.71         |              |
|             |                    | 11      | 2462            | 16.81               | 18.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 16.76               | 18.76         | 98.31        |
|             |                    | 6       | 2437            | 16.86               | 18.86         |              |
|             |                    | 11      | 2462            | 16.81               | 18.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 16.61               | 18.61         | 96.13        |
|             |                    | 6       | 2437            | 16.56               | 18.56         |              |
|             |                    | 9       | 2452            | 16.36               | 18.36         |              |



**<5GHz WLAN>**

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 18.36               | 20.36         | 98.46        |
|             |                     | 40      | 5200            | 18.30               | 20.30         |              |
|             |                     | 44      | 5220            | 18.33               | 20.33         |              |
|             |                     | 48      | 5240            | 18.34               | 20.34         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 18.24               | 20.24         | 98.79        |
|             |                     | 40      | 5200            | 18.18               | 20.18         |              |
|             |                     | 44      | 5220            | 18.22               | 20.22         |              |
|             |                     | 48      | 5240            | 18.29               | 20.29         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 19.72               | 21.72         | 98.08        |
|             |                     | 46      | 5230            | 19.71               | 21.71         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 18.19               | 20.19         | 98.11        |
|             |                     | 40      | 5200            | 18.16               | 20.16         |              |
|             |                     | 44      | 5220            | 18.20               | 20.20         |              |
|             |                     | 48      | 5240            | 18.28               | 20.28         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 19.66               | 21.66         | 95.88        |
|             |                     | 46      | 5230            | 19.68               | 21.68         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 18.26               | 20.26         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 18.31               | 20.31         | 97.79        |
|             |                     | 40      | 5200            | 18.32               | 20.32         |              |
|             |                     | 44      | 5220            | 18.33               | 20.33         |              |
|             |                     | 48      | 5240            | 17.99               | 19.99         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 19.30               | 21.30         | 97.30        |
|             |                     | 46      | 5230            | 19.34               | 21.34         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 18.79               | 20.79         | 95.55        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 18.39               | 20.39         | 98.46        |
|             |                     | 56      | 5280            | 18.33               | 20.33         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.41               | 20.41         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 18.40               | 20.40         | 98.79        |
|             |                     | 56      | 5280            | 18.32               | 20.32         |              |
|             |                     | 60      | 5300            | 18.39               | 20.39         |              |
|             |                     | 64      | 5320            | 18.49               | 20.49         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 19.91               | 21.91         | 98.08        |
|             |                     | 62      | 5310            | 19.80               | 21.80         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 18.36               | 20.36         | 98.11        |
|             |                     | 56      | 5280            | 18.30               | 20.30         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.47               | 20.47         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 19.87               | 21.87         | 95.88        |
|             |                     | 62      | 5310            | 19.75               | 21.75         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 18.23               | 20.23         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 18.46               | 20.46         | 97.79        |
|             |                     | 56      | 5280            | 18.45               | 20.45         |              |
|             |                     | 60      | 5300            | 18.48               | 20.48         |              |
|             |                     | 64      | 5320            | 18.55               | 20.55         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 19.51               | 21.51         | 97.30        |
|             |                     | 62      | 5310            | 19.40               | 21.40         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 18.87               | 20.87         | 95.55        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 16.22               | 18.22         | 98.46        |
|             |                     | 116     | 5580            | 16.18               | 18.18         |              |
|             |                     | 124     | 5620            | 16.16               | 18.16         |              |
|             |                     | 132     | 5660            | 16.14               | 18.14         |              |
|             |                     | 144     | 5720            | 15.91               | 17.91         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 16.04               | 18.04         | 98.79        |
|             |                     | 116     | 5580            | 15.92               | 17.92         |              |
|             |                     | 124     | 5620            | 16.01               | 18.01         |              |
|             |                     | 132     | 5660            | 16.00               | 18.00         |              |
|             |                     | 144     | 5720            | 15.42               | 17.42         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 17.40               | 19.40         | 98.08        |
|             |                     | 110     | 5550            | 17.44               | 19.44         |              |
|             |                     | 126     | 5630            | 17.22               | 19.22         |              |
|             |                     | 134     | 5670            | 17.01               | 19.01         |              |
|             |                     | 142     | 5710            | 16.83               | 18.83         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 15.99               | 17.99         | 98.11        |
|             |                     | 116     | 5580            | 15.90               | 17.90         |              |
|             |                     | 124     | 5620            | 15.96               | 17.96         |              |
|             |                     | 132     | 5660            | 15.94               | 17.94         |              |
|             |                     | 144     | 5720            | 15.38               | 17.38         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 17.34               | 19.34         | 95.88        |
|             |                     | 110     | 5550            | 17.40               | 19.40         |              |
|             |                     | 126     | 5630            | 17.20               | 19.20         |              |
|             |                     | 134     | 5670            | 16.97               | 18.97         |              |
|             |                     | 142     | 5710            | 16.79               | 18.79         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 16.18               | 18.18         | 93.21        |
|             |                     | 122     | 5610            | 16.13               | 18.13         |              |
|             |                     | 138     | 5690            | 15.92               | 17.92         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 16.07               | 18.07         | 97.79        |
|             |                     | 116     | 5580            | 15.89               | 17.89         |              |
|             |                     | 124     | 5620            | 15.73               | 17.73         |              |
|             |                     | 132     | 5660            | 15.65               | 17.65         |              |
|             |                     | 144     | 5720            | 15.41               | 17.41         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 16.95               | 18.95         | 97.30        |
|             |                     | 110     | 5550            | 16.95               | 18.95         |              |
|             |                     | 126     | 5630            | 16.85               | 18.85         |              |
|             |                     | 134     | 5670            | 16.51               | 18.51         |              |
|             |                     | 142     | 5710            | 16.36               | 18.36         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 16.84               | 18.84         | 95.55        |
|             |                     | 122     | 5610            | 16.39               | 18.39         |              |
|             |                     | 138     | 5690            | 16.14               | 18.14         |              |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 149     | 5745            | 16.54               | 18.54         | 99.18        |
|             |                     | 157     | 5785            | 16.31               | 18.31         |              |
|             |                     | 165     | 5825            | 16.28               | 18.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 16.11               | 18.11         | 99.12        |
|             |                     | 157     | 5785            | 15.84               | 17.84         |              |
|             |                     | 165     | 5825            | 15.85               | 17.85         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 17.52               | 19.52         | 98.08        |
|             |                     | 159     | 5795            | 17.23               | 19.23         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.09               | 18.09         | 98.30        |
|             |                     | 157     | 5785            | 15.83               | 17.83         |              |
|             |                     | 165     | 5825            | 15.78               | 17.78         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.44               | 19.44         | 96.69        |
|             |                     | 159     | 5795            | 17.15               | 19.15         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.23               | 18.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.20               | 18.20         | 99.33        |
|             |                     | 157     | 5785            | 15.95               | 17.95         |              |
|             |                     | 165     | 5825            | 15.88               | 17.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 17.14               | 19.14         | 97.82        |
|             |                     | 159     | 5795            | 16.79               | 18.79         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.47               | 18.47         | 95.88        |

**<Simultaneous is activated Mode>**

**<For At-Head Mode level 2>**

**<2.4GHz WLAN>**

| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11b 1Mbps      | 1       | 2412            | 11.76               | 13.76         | 100.00       |
|             |                    | 6       | 2437            | 11.62               | 13.62         |              |
|             |                    | 11      | 2462            | 11.94               | 13.94         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 10.71               | 12.71         | 99.18        |
|             |                    | 6       | 2437            | 10.55               | 12.55         |              |
|             |                    | 11      | 2462            | 10.72               | 12.72         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 11.80               | 13.80         | 99.12        |
|             |                    | 6       | 2437            | 11.69               | 13.69         |              |
|             |                    | 11      | 2462            | 11.68               | 13.68         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 11.64               | 13.64         | 98.31        |
|             |                    | 6       | 2437            | 11.61               | 13.61         |              |
|             |                    | 11      | 2462            | 11.70               | 13.70         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 11.44               | 13.44         | 96.13        |
|             |                    | 6       | 2437            | 11.23               | 13.23         |              |
|             |                    | 9       | 2452            | 11.25               | 13.25         |              |



## &lt;5GHz WLAN&gt;

| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 36      | 5180            | 18.36               | 20.36         | 98.46        |
|             |                     | 40      | 5200            | 18.30               | 20.30         |              |
|             |                     | 44      | 5220            | 18.33               | 20.33         |              |
|             |                     | 48      | 5240            | 18.34               | 20.34         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 18.24               | 20.24         | 98.79        |
|             |                     | 40      | 5200            | 18.18               | 20.18         |              |
|             |                     | 44      | 5220            | 18.22               | 20.22         |              |
|             |                     | 48      | 5240            | 18.29               | 20.29         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 19.72               | 21.72         | 98.08        |
|             |                     | 46      | 5230            | 19.71               | 21.71         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 18.19               | 20.19         | 98.11        |
|             |                     | 40      | 5200            | 18.16               | 20.16         |              |
|             |                     | 44      | 5220            | 18.20               | 20.20         |              |
|             |                     | 48      | 5240            | 18.28               | 20.28         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 19.66               | 21.66         | 95.88        |
|             |                     | 46      | 5230            | 19.68               | 21.68         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 18.26               | 20.26         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 18.13               | 20.13         | 98.11        |
|             |                     | 40      | 5200            | 18.25               | 20.25         |              |
|             |                     | 44      | 5220            | 18.42               | 20.42         |              |
|             |                     | 48      | 5240            | 18.35               | 20.35         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 18.34               | 20.34         | 95.88        |
|             |                     | 46      | 5230            | 18.49               | 20.49         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 18.46               | 20.46         | 93.21        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 18.39               | 20.39         | 98.46        |
|             |                     | 56      | 5280            | 18.33               | 20.33         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.41               | 20.41         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 18.40               | 20.40         | 98.79        |
|             |                     | 56      | 5280            | 18.32               | 20.32         |              |
|             |                     | 60      | 5300            | 18.39               | 20.39         |              |
|             |                     | 64      | 5320            | 18.49               | 20.49         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 19.91               | 21.91         | 98.08        |
|             |                     | 62      | 5310            | 19.80               | 21.80         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 18.36               | 20.36         | 98.11        |
|             |                     | 56      | 5280            | 18.30               | 20.30         |              |
|             |                     | 60      | 5300            | 18.36               | 20.36         |              |
|             |                     | 64      | 5320            | 18.47               | 20.47         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 19.87               | 21.87         | 95.88        |
|             |                     | 62      | 5310            | 19.75               | 21.75         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 18.23               | 20.23         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 18.54               | 20.54         | 98.11        |
|             |                     | 56      | 5280            | 18.26               | 20.26         |              |
|             |                     | 60      | 5300            | 18.41               | 20.41         |              |
|             |                     | 64      | 5320            | 18.65               | 20.65         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 18.75               | 20.75         | 95.88        |
|             |                     | 62      | 5310            | 18.67               | 20.67         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 18.84               | 20.84         | 93.21        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 16.22               | 18.22         | 98.46        |
|             |                     | 116     | 5580            | 16.18               | 18.18         |              |
|             |                     | 124     | 5620            | 16.16               | 18.16         |              |
|             |                     | 132     | 5660            | 16.14               | 18.14         |              |
|             |                     | 144     | 5720            | 15.91               | 17.91         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 16.04               | 18.04         | 98.79        |
|             |                     | 116     | 5580            | 15.92               | 17.92         |              |
|             |                     | 124     | 5620            | 16.01               | 18.01         |              |
|             |                     | 132     | 5660            | 16.00               | 18.00         |              |
|             |                     | 144     | 5720            | 15.42               | 17.42         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 17.40               | 19.40         | 98.08        |
|             |                     | 110     | 5550            | 17.44               | 19.44         |              |
|             |                     | 126     | 5630            | 17.22               | 19.22         |              |
|             |                     | 134     | 5670            | 17.01               | 19.01         |              |
|             |                     | 142     | 5710            | 16.83               | 18.83         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 15.99               | 17.99         | 98.11        |
|             |                     | 116     | 5580            | 15.90               | 17.90         |              |
|             |                     | 124     | 5620            | 15.96               | 17.96         |              |
|             |                     | 132     | 5660            | 15.94               | 17.94         |              |
|             |                     | 144     | 5720            | 15.38               | 17.38         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 17.34               | 19.34         | 95.88        |
|             |                     | 110     | 5550            | 17.40               | 19.40         |              |
|             |                     | 126     | 5630            | 17.20               | 19.20         |              |
|             |                     | 134     | 5670            | 16.97               | 18.97         |              |
|             |                     | 142     | 5710            | 16.79               | 18.79         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 16.18               | 18.18         | 93.21        |
|             |                     | 122     | 5610            | 16.13               | 18.13         |              |
|             |                     | 138     | 5690            | 15.92               | 17.92         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 16.25               | 18.25         | 98.11        |
|             |                     | 116     | 5580            | 16.84               | 18.84         |              |
|             |                     | 124     | 5620            | 16.98               | 18.98         |              |
|             |                     | 132     | 5660            | 16.54               | 18.54         |              |
|             |                     | 144     | 5720            | 16.44               | 18.44         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 16.35               | 18.35         | 95.88        |
|             |                     | 110     | 5550            | 16.84               | 18.84         |              |
|             |                     | 126     | 5630            | 16.66               | 18.66         |              |
|             |                     | 134     | 5670            | 16.54               | 18.54         |              |
|             |                     | 142     | 5710            | 16.45               | 18.45         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 16.12               | 18.12         | 93.21        |
|             |                     | 122     | 5610            | 16.34               | 18.34         |              |
|             |                     | 138     | 5690            | 16.42               | 18.42         |              |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 16.54               | 18.54         | 99.18        |
|             |                     | 157     | 5785            | 16.31               | 18.31         |              |
|             |                     | 165     | 5825            | 16.28               | 18.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 16.11               | 18.11         | 99.12        |
|             |                     | 157     | 5785            | 15.84               | 17.84         |              |
|             |                     | 165     | 5825            | 15.85               | 17.85         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 17.52               | 19.52         | 98.08        |
|             |                     | 159     | 5795            | 17.23               | 19.23         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.09               | 18.09         | 98.30        |
|             |                     | 157     | 5785            | 15.83               | 17.83         |              |
|             |                     | 165     | 5825            | 15.78               | 17.78         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.44               | 19.44         | 96.69        |
|             |                     | 159     | 5795            | 17.15               | 19.15         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.23               | 18.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.20               | 18.20         | 99.33        |
|             |                     | 157     | 5785            | 15.95               | 17.95         |              |
|             |                     | 165     | 5825            | 15.88               | 17.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 17.14               | 19.14         | 97.82        |
|             |                     | 159     | 5795            | 16.79               | 18.79         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.47               | 18.47         | 95.88        |

<For Hotspot Mode level 2>

<2.4GHz WLAN>

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 13.67               | 15.67         | 100.00       |
|             |                    | 6       | 2437            | 13.61               | 15.61         |              |
|             |                    | 11      | 2462            | 13.87               | 15.87         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 12.67               | 14.67         | 99.18        |
|             |                    | 6       | 2437            | 12.53               | 14.53         |              |
|             |                    | 11      | 2462            | 12.62               | 14.62         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 13.74               | 15.74         | 99.12        |
|             |                    | 6       | 2437            | 13.76               | 15.76         |              |
|             |                    | 11      | 2462            | 13.77               | 15.77         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 13.70               | 15.70         | 98.31        |
|             |                    | 6       | 2437            | 13.59               | 15.59         |              |
|             |                    | 11      | 2462            | 13.74               | 15.74         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.45               | 15.45         | 96.13        |
|             |                    | 6       | 2437            | 13.20               | 15.20         |              |
|             |                    | 9       | 2452            | 13.31               | 15.31         |              |

<5GHz WLAN>

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 15.32               | 17.32         | 98.46        |
|             |                     | 40      | 5200            | 15.19               | 17.19         |              |
|             |                     | 44      | 5220            | 15.26               | 17.26         |              |
|             |                     | 48      | 5240            | 15.31               | 17.31         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 15.16               | 17.16         | 98.79        |
|             |                     | 40      | 5200            | 15.18               | 17.18         |              |
|             |                     | 44      | 5220            | 15.20               | 17.20         |              |
|             |                     | 48      | 5240            | 15.22               | 17.22         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 16.66               | 18.66         | 98.08        |
|             |                     | 46      | 5230            | 16.64               | 18.64         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 15.11               | 17.11         | 98.11        |
|             |                     | 40      | 5200            | 15.10               | 17.10         |              |
|             |                     | 44      | 5220            | 15.16               | 17.16         |              |
|             |                     | 48      | 5240            | 15.18               | 17.18         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 16.59               | 18.59         | 95.88        |
|             |                     | 46      | 5230            | 16.63               | 18.63         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 15.19               | 17.19         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 15.49               | 17.49         | 98.11        |
|             |                     | 40      | 5200            | 15.41               | 17.41         |              |
|             |                     | 44      | 5220            | 15.24               | 17.24         |              |
|             |                     | 48      | 5240            | 15.84               | 17.84         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 15.15               | 17.15         | 95.88        |
|             |                     | 46      | 5230            | 15.64               | 17.64         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 15.97               | 17.97         | 93.21        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 12.46               | 14.46         | 99.18        |
|             |                     | 157     | 5785            | 12.23               | 14.23         |              |
|             |                     | 165     | 5825            | 12.22               | 14.22         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 12.04               | 14.04         | 99.12        |
|             |                     | 157     | 5785            | 11.76               | 13.76         |              |
|             |                     | 165     | 5825            | 11.83               | 13.83         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 13.49               | 15.49         | 98.08        |
|             |                     | 159     | 5795            | 13.15               | 15.15         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.00               | 14.00         | 98.30        |
|             |                     | 157     | 5785            | 11.80               | 13.80         |              |
|             |                     | 165     | 5825            | 11.64               | 13.64         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 13.37               | 15.37         | 96.69        |
|             |                     | 159     | 5795            | 13.09               | 15.09         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.20               | 14.20         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 12.12               | 14.12         | 99.33        |
|             |                     | 157     | 5785            | 11.92               | 13.92         |              |
|             |                     | 165     | 5825            | 11.85               | 13.85         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 13.09               | 15.09         | 97.82        |
|             |                     | 159     | 5795            | 12.76               | 14.76         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.44               | 14.44         | 95.88        |

**<For Body-worn/Product specific Mode level 2>**
**<2.4GHz WLAN>**

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 15.69               | 17.69         | 100.00       |
|             |                    | 6       | 2437            | 15.57               | 17.57         |              |
|             |                    | 11      | 2462            | 15.89               | 17.89         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 14.76               | 16.76         | 99.18        |
|             |                    | 6       | 2437            | 14.52               | 16.52         |              |
|             |                    | 11      | 2462            | 14.69               | 16.69         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 15.76               | 17.76         | 99.12        |
|             |                    | 6       | 2437            | 15.67               | 17.67         |              |
|             |                    | 11      | 2462            | 15.81               | 17.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.66               | 17.66         | 98.31        |
|             |                    | 6       | 2437            | 15.65               | 17.65         |              |
|             |                    | 11      | 2462            | 15.76               | 17.76         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 15.50               | 17.50         | 96.13        |
|             |                    | 6       | 2437            | 15.21               | 17.21         |              |
|             |                    | 9       | 2452            | 15.23               | 17.23         |              |

**<5GHz WLAN>**

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 17.29               | 19.29         | 98.46        |
|             |                     | 40      | 5200            | 17.32               | 19.32         |              |
|             |                     | 44      | 5220            | 17.28               | 19.28         |              |
|             |                     | 48      | 5240            | 17.25               | 19.25         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 17.18               | 19.18         | 98.79        |
|             |                     | 40      | 5200            | 17.14               | 19.14         |              |
|             |                     | 44      | 5220            | 17.22               | 19.22         |              |
|             |                     | 48      | 5240            | 17.23               | 19.23         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 18.71               | 20.71         | 98.08        |
|             |                     | 46      | 5230            | 18.70               | 20.70         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 17.10               | 19.10         | 98.11        |
|             |                     | 40      | 5200            | 17.12               | 19.12         |              |
|             |                     | 44      | 5220            | 17.08               | 19.08         |              |
|             |                     | 48      | 5240            | 17.25               | 19.25         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 18.59               | 20.59         | 95.88        |
|             |                     | 46      | 5230            | 18.60               | 20.60         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 17.22               | 19.22         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 17.52               | 19.52         | 98.11        |
|             |                     | 40      | 5200            | 17.24               | 19.24         |              |
|             |                     | 44      | 5220            | 17.84               | 19.84         |              |
|             |                     | 48      | 5240            | 17.65               | 19.65         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.44               | 19.44         | 95.88        |
|             |                     | 46      | 5230            | 17.68               | 19.68         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 17.73               | 19.73         | 93.21        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps       | 52      | 5260            | 16.30               | 18.30         | 98.46        |
|             |                     | 56      | 5280            | 16.29               | 18.29         |              |
|             |                     | 60      | 5300            | 16.27               | 18.27         |              |
|             |                     | 64      | 5320            | 16.31               | 18.31         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 16.37               | 18.37         | 98.79        |
|             |                     | 56      | 5280            | 16.24               | 18.24         |              |
|             |                     | 60      | 5300            | 16.37               | 18.37         |              |
|             |                     | 64      | 5320            | 16.52               | 18.52         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 17.81               | 19.81         | 98.08        |
|             |                     | 62      | 5310            | 17.80               | 19.80         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 16.35               | 18.35         | 98.11        |
|             |                     | 56      | 5280            | 16.30               | 18.30         |              |
|             |                     | 60      | 5300            | 16.25               | 18.25         |              |
|             |                     | 64      | 5320            | 16.41               | 18.41         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.75               | 19.75         | 95.88        |
|             |                     | 62      | 5310            | 17.67               | 19.67         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 16.18               | 18.18         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 16.01               | 18.01         | 98.11        |
|             |                     | 56      | 5280            | 16.24               | 18.24         |              |
|             |                     | 60      | 5300            | 16.58               | 18.58         |              |
|             |                     | 64      | 5320            | 16.18               | 18.18         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 16.48               | 18.48         | 95.88        |
|             |                     | 62      | 5310            | 16.74               | 18.74         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 16.85               | 18.85         | 93.21        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 14.17               | 16.17         | 98.46        |
|             |                     | 116     | 5580            | 14.12               | 16.12         |              |
|             |                     | 124     | 5620            | 14.15               | 16.15         |              |
|             |                     | 132     | 5660            | 14.10               | 16.10         |              |
|             |                     | 144     | 5720            | 13.90               | 15.90         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 13.98               | 15.98         | 98.79        |
|             |                     | 116     | 5580            | 13.87               | 15.87         |              |
|             |                     | 124     | 5620            | 13.91               | 15.91         |              |
|             |                     | 132     | 5660            | 13.93               | 15.93         |              |
|             |                     | 144     | 5720            | 13.39               | 15.39         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 15.34               | 17.34         | 98.08        |
|             |                     | 110     | 5550            | 15.38               | 17.38         |              |
|             |                     | 126     | 5630            | 15.19               | 17.19         |              |
|             |                     | 134     | 5670            | 15.00               | 17.00         |              |
|             |                     | 142     | 5710            | 14.79               | 16.79         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 13.98               | 15.98         | 98.11        |
|             |                     | 116     | 5580            | 13.88               | 15.88         |              |
|             |                     | 124     | 5620            | 13.84               | 15.84         |              |
|             |                     | 132     | 5660            | 13.93               | 15.93         |              |
|             |                     | 144     | 5720            | 13.33               | 15.33         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 15.27               | 17.27         | 95.88        |
|             |                     | 110     | 5550            | 15.32               | 17.32         |              |
|             |                     | 126     | 5630            | 15.14               | 17.14         |              |
|             |                     | 134     | 5670            | 14.91               | 16.91         |              |
|             |                     | 142     | 5710            | 14.72               | 16.72         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 14.12               | 16.12         | 93.21        |
|             |                     | 122     | 5610            | 14.11               | 16.11         |              |
|             |                     | 138     | 5690            | 13.82               | 15.82         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 14.25               | 16.25         | 98.11        |
|             |                     | 116     | 5580            | 14.64               | 16.64         |              |
|             |                     | 124     | 5620            | 14.95               | 16.95         |              |
|             |                     | 132     | 5660            | 14.32               | 16.32         |              |
|             |                     | 144     | 5720            | 14.41               | 16.41         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 14.52               | 16.52         | 95.88        |
|             |                     | 110     | 5550            | 14.35               | 16.35         |              |
|             |                     | 126     | 5630            | 14.87               | 16.87         |              |
|             |                     | 134     | 5670            | 14.64               | 16.64         |              |
|             |                     | 142     | 5710            | 14.94               | 16.94         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 14.21               | 16.21         | 93.21        |
|             |                     | 122     | 5610            | 14.32               | 16.32         |              |
|             |                     | 138     | 5690            | 13.54               | 15.54         |              |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 14.51               | 16.51         | 99.18        |
|             |                     | 157     | 5785            | 14.22               | 16.22         |              |
|             |                     | 165     | 5825            | 14.24               | 16.24         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.04               | 16.04         | 99.12        |
|             |                     | 157     | 5785            | 13.76               | 15.76         |              |
|             |                     | 165     | 5825            | 13.81               | 15.81         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 15.47               | 17.47         | 98.08        |
|             |                     | 159     | 5795            | 15.17               | 17.17         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 14.07               | 16.07         | 98.30        |
|             |                     | 157     | 5785            | 13.72               | 15.72         |              |
|             |                     | 165     | 5825            | 13.70               | 15.70         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 15.38               | 17.38         | 96.69        |
|             |                     | 159     | 5795            | 15.14               | 17.14         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 14.18               | 16.18         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 14.18               | 16.18         | 99.33        |
|             |                     | 157     | 5785            | 13.88               | 15.88         |              |
|             |                     | 165     | 5825            | 13.78               | 15.78         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 15.11               | 17.11         | 97.82        |
|             |                     | 159     | 5795            | 14.69               | 16.69         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 14.45               | 16.45         | 95.88        |

**<For At-Head Mode level 3>**

**<2.4GHz WLAN>**

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 9.71                | 11.71         | 100.00       |
|             |                    | 6       | 2437            | 9.66                | 11.66         |              |
|             |                    | 11      | 2462            | 9.96                | 11.96         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 8.76                | 10.76         | 99.18        |
|             |                    | 6       | 2437            | 8.56                | 10.56         |              |
|             |                    | 11      | 2462            | 8.71                | 10.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 9.81                | 11.81         | 99.12        |
|             |                    | 6       | 2437            | 9.76                | 11.76         |              |
|             |                    | 11      | 2462            | 9.81                | 11.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 9.71                | 11.71         | 98.31        |
|             |                    | 6       | 2437            | 9.86                | 11.86         |              |
|             |                    | 11      | 2462            | 9.81                | 11.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 9.61                | 11.61         | 96.13        |
|             |                    | 6       | 2437            | 9.46                | 11.46         |              |
|             |                    | 9       | 2452            | 9.36                | 11.36         |              |

<5GHz WLAN>

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps       | 36      | 5180            | 16.35               | 18.35         | 98.46        |
|             |                     | 40      | 5200            | 16.30               | 18.30         |              |
|             |                     | 44      | 5220            | 16.34               | 18.34         |              |
|             |                     | 48      | 5240            | 16.33               | 18.33         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 16.24               | 18.24         | 98.79        |
|             |                     | 40      | 5200            | 16.18               | 18.18         |              |
|             |                     | 44      | 5220            | 16.23               | 18.23         |              |
|             |                     | 48      | 5240            | 16.29               | 18.29         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 17.73               | 19.73         | 98.08        |
|             |                     | 46      | 5230            | 17.72               | 19.72         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.18               | 18.18         | 98.11        |
|             |                     | 40      | 5200            | 16.13               | 18.13         |              |
|             |                     | 44      | 5220            | 16.20               | 18.20         |              |
|             |                     | 48      | 5240            | 16.27               | 18.27         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.66               | 19.66         | 95.88        |
|             |                     | 46      | 5230            | 17.68               | 19.68         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 16.25               | 18.25         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 16.31               | 18.31         | 97.79        |
|             |                     | 40      | 5200            | 16.08               | 18.08         |              |
|             |                     | 44      | 5220            | 16.10               | 18.10         |              |
|             |                     | 48      | 5240            | 16.37               | 18.37         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 17.29               | 19.29         | 97.30        |
|             |                     | 46      | 5230            | 17.33               | 19.33         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.77               | 18.77         | 95.55        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 16.38               | 18.38         | 98.46        |
|             |                     | 56      | 5280            | 16.34               | 18.34         |              |
|             |                     | 60      | 5300            | 16.36               | 18.36         |              |
|             |                     | 64      | 5320            | 16.40               | 18.40         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 16.41               | 18.41         | 98.79        |
|             |                     | 56      | 5280            | 16.33               | 18.33         |              |
|             |                     | 60      | 5300            | 16.41               | 18.41         |              |
|             |                     | 64      | 5320            | 16.51               | 18.51         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 17.92               | 19.92         | 98.08        |
|             |                     | 62      | 5310            | 17.80               | 19.80         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 16.36               | 18.36         | 98.11        |
|             |                     | 56      | 5280            | 16.30               | 18.30         |              |
|             |                     | 60      | 5300            | 16.35               | 18.35         |              |
|             |                     | 64      | 5320            | 16.44               | 18.44         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.85               | 19.85         | 95.88        |
|             |                     | 62      | 5310            | 17.74               | 19.74         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 16.23               | 18.23         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 16.44               | 18.44         | 97.79        |
|             |                     | 56      | 5280            | 16.37               | 18.37         |              |
|             |                     | 60      | 5300            | 16.47               | 18.47         |              |
|             |                     | 64      | 5320            | 16.53               | 18.53         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 17.50               | 19.50         | 97.30        |
|             |                     | 62      | 5310            | 17.39               | 19.39         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 16.87               | 18.87         | 95.55        |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | 802.11a 6Mbps       | 100     | 5500            | 16.22               | 18.22         | 98.46        |
|             |                     | 116     | 5580            | 16.18               | 18.18         |              |
|             |                     | 124     | 5620            | 16.16               | 18.16         |              |
|             |                     | 132     | 5660            | 16.14               | 18.14         |              |
|             |                     | 144     | 5720            | 15.91               | 17.91         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 16.04               | 18.04         | 98.79        |
|             |                     | 116     | 5580            | 15.92               | 17.92         |              |
|             |                     | 124     | 5620            | 16.01               | 18.01         |              |
|             |                     | 132     | 5660            | 16.00               | 18.00         |              |
|             |                     | 144     | 5720            | 15.42               | 17.42         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 17.40               | 19.40         | 98.08        |
|             |                     | 110     | 5550            | 17.44               | 19.44         |              |
|             |                     | 126     | 5630            | 17.22               | 19.22         |              |
|             |                     | 134     | 5670            | 17.01               | 19.01         |              |
|             |                     | 142     | 5710            | 16.83               | 18.83         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 15.99               | 17.99         | 98.11        |
|             |                     | 116     | 5580            | 15.90               | 17.90         |              |
|             |                     | 124     | 5620            | 15.96               | 17.96         |              |
|             |                     | 132     | 5660            | 15.94               | 17.94         |              |
|             |                     | 144     | 5720            | 15.38               | 17.38         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 17.34               | 19.34         | 95.88        |
|             |                     | 110     | 5550            | 17.40               | 19.40         |              |
|             |                     | 126     | 5630            | 17.20               | 19.20         |              |
|             |                     | 134     | 5670            | 16.97               | 18.97         |              |
|             |                     | 142     | 5710            | 16.79               | 18.79         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 16.18               | 18.18         | 93.21        |
|             |                     | 122     | 5610            | 16.13               | 18.13         |              |
|             |                     | 138     | 5690            | 15.92               | 17.92         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 16.07               | 18.07         |              |
|             |                     | 116     | 5580            | 15.89               | 17.89         |              |
|             |                     | 124     | 5620            | 15.73               | 17.73         |              |
|             |                     | 132     | 5660            | 15.65               | 17.65         |              |
|             |                     | 144     | 5720            | 15.41               | 17.41         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 16.95               | 18.95         | 97.30        |
|             |                     | 110     | 5550            | 16.95               | 18.95         |              |
|             |                     | 126     | 5630            | 16.85               | 18.85         |              |
|             |                     | 134     | 5670            | 16.51               | 18.51         |              |
|             |                     | 142     | 5710            | 16.36               | 18.36         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 16.84               | 18.84         | 95.55        |
|             |                     | 122     | 5610            | 16.39               | 18.39         |              |
|             |                     | 138     | 5690            | 16.14               | 18.14         |              |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 16.54               | 18.54         | 99.18        |
|             |                     | 157     | 5785            | 16.31               | 18.31         |              |
|             |                     | 165     | 5825            | 16.28               | 18.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 16.11               | 18.11         | 99.12        |
|             |                     | 157     | 5785            | 15.84               | 17.84         |              |
|             |                     | 165     | 5825            | 15.85               | 17.85         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 17.52               | 19.52         | 98.08        |
|             |                     | 159     | 5795            | 17.23               | 19.23         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 16.09               | 18.09         | 98.30        |
|             |                     | 157     | 5785            | 15.83               | 17.83         |              |
|             |                     | 165     | 5825            | 15.78               | 17.78         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.44               | 19.44         | 96.69        |
|             |                     | 159     | 5795            | 17.15               | 19.15         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 16.23               | 18.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 16.20               | 18.20         | 99.33        |
|             |                     | 157     | 5785            | 15.95               | 17.95         |              |
|             |                     | 165     | 5825            | 15.88               | 17.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 17.14               | 19.14         | 97.82        |
|             |                     | 159     | 5795            | 16.79               | 18.79         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 16.47               | 18.47         | 95.88        |

**<For Hotspot Mode level 3>**

**<2.4GHz WLAN>**

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 10.71               | 12.71         | 100.00       |
|             |                    | 6       | 2437            | 10.66               | 12.66         |              |
|             |                    | 11      | 2462            | 10.91               | 12.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 9.76                | 11.76         | 99.18        |
|             |                    | 6       | 2437            | 9.56                | 11.56         |              |
|             |                    | 11      | 2462            | 9.71                | 11.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 10.81               | 12.81         | 99.12        |
|             |                    | 6       | 2437            | 10.76               | 12.76         |              |
|             |                    | 11      | 2462            | 10.81               | 12.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 10.71               | 12.71         | 98.31        |
|             |                    | 6       | 2437            | 10.86               | 12.86         |              |
|             |                    | 11      | 2462            | 10.81               | 12.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 10.61               | 12.61         | 96.13        |
|             |                    | 6       | 2437            | 10.46               | 12.46         |              |
|             |                    | 9       | 2452            | 10.36               | 12.36         |              |



## &lt;5GHz WLAN&gt;

| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 36      | 5180            | 12.37               | 14.37         | 98.46        |
|             |                     | 40      | 5200            | 12.28               | 14.28         |              |
|             |                     | 44      | 5220            | 12.35               | 14.35         |              |
|             |                     | 48      | 5240            | 12.35               | 14.35         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 12.24               | 14.24         | 98.79        |
|             |                     | 40      | 5200            | 12.20               | 14.20         |              |
|             |                     | 44      | 5220            | 12.23               | 14.23         |              |
|             |                     | 48      | 5240            | 12.30               | 14.30         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 13.75               | 15.75         | 98.08        |
|             |                     | 46      | 5230            | 13.73               | 15.73         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.16               | 14.16         | 98.11        |
|             |                     | 40      | 5200            | 12.15               | 14.15         |              |
|             |                     | 44      | 5220            | 12.18               | 14.18         |              |
|             |                     | 48      | 5240            | 12.26               | 14.26         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.63               | 15.63         | 95.88        |
|             |                     | 46      | 5230            | 13.66               | 15.66         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.20               | 14.20         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 12.29               | 14.29         | 97.79        |
|             |                     | 40      | 5200            | 12.19               | 14.19         |              |
|             |                     | 44      | 5220            | 12.29               | 14.29         |              |
|             |                     | 48      | 5240            | 12.34               | 14.34         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.27               | 15.27         | 97.30        |
|             |                     | 46      | 5230            | 13.31               | 15.31         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 12.76               | 14.76         | 95.55        |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 149     | 5745            | 10.54               | 12.54         | 99.18        |
|             |                     | 157     | 5785            | 10.29               | 12.29         |              |
|             |                     | 165     | 5825            | 10.26               | 12.26         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 10.09               | 12.09         | 99.12        |
|             |                     | 157     | 5785            | 9.82                | 11.82         |              |
|             |                     | 165     | 5825            | 9.83                | 11.83         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 11.52               | 13.52         | 98.08        |
|             |                     | 159     | 5795            | 11.24               | 13.24         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 10.07               | 12.07         | 98.30        |
|             |                     | 157     | 5785            | 9.80                | 11.80         |              |
|             |                     | 165     | 5825            | 9.73                | 11.73         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.42               | 13.42         | 96.69        |
|             |                     | 159     | 5795            | 11.16               | 13.16         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 10.22               | 12.22         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 10.20               | 12.20         | 99.33        |
|             |                     | 157     | 5785            | 9.92                | 11.92         |              |
|             |                     | 165     | 5825            | 9.87                | 11.87         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 11.14               | 13.14         | 97.82        |
|             |                     | 159     | 5795            | 10.78               | 12.78         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 10.46               | 12.46         | 95.88        |



## &lt;For Body-worn Mode level 3&gt;

## &lt;2.4GHz WLAN&gt;

| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11b 1Mbps      | 1       | 2412            | 13.71               | 15.71         | 100.00       |
|             |                    | 6       | 2437            | 13.66               | 15.66         |              |
|             |                    | 11      | 2462            | 13.91               | 15.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 12.71               | 14.71         | 99.18        |
|             |                    | 6       | 2437            | 12.56               | 14.56         |              |
|             |                    | 11      | 2462            | 12.71               | 14.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 13.81               | 15.81         | 99.12        |
|             |                    | 6       | 2437            | 13.76               | 15.76         |              |
|             |                    | 11      | 2462            | 13.81               | 15.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 13.76               | 15.76         | 98.31        |
|             |                    | 6       | 2437            | 13.86               | 15.86         |              |
|             |                    | 11      | 2462            | 13.81               | 15.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.61               | 15.61         | 96.13        |
|             |                    | 6       | 2437            | 13.51               | 15.51         |              |
|             |                    | 9       | 2452            | 13.36               | 15.36         |              |

## &lt;5GHz WLAN&gt;

| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 36      | 5180            | 15.36               | 17.36         | 98.46        |
|             |                     | 40      | 5200            | 15.32               | 17.32         |              |
|             |                     | 44      | 5220            | 15.36               | 17.36         |              |
|             |                     | 48      | 5240            | 15.34               | 17.34         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 15.26               | 17.26         | 98.79        |
|             |                     | 40      | 5200            | 15.20               | 17.20         |              |
|             |                     | 44      | 5220            | 15.25               | 17.25         |              |
|             |                     | 48      | 5240            | 15.31               | 17.31         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 15.76               | 17.76         | 98.08        |
|             |                     | 46      | 5230            | 15.74               | 17.74         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 15.17               | 17.17         | 98.11        |
|             |                     | 40      | 5200            | 15.13               | 17.13         |              |
|             |                     | 44      | 5220            | 15.17               | 17.17         |              |
|             |                     | 48      | 5240            | 15.25               | 17.25         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 16.65               | 18.65         | 95.88        |
|             |                     | 46      | 5230            | 16.66               | 18.66         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 15.24               | 17.24         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 15.30               | 17.30         | 97.79        |
|             |                     | 40      | 5200            | 15.21               | 17.21         |              |
|             |                     | 44      | 5220            | 15.28               | 17.28         |              |
|             |                     | 48      | 5240            | 15.36               | 17.36         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 16.28               | 18.28         | 97.30        |
|             |                     | 46      | 5230            | 16.35               | 18.35         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 15.78               | 17.78         | 95.55        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 15.38               | 17.38         | 98.46        |
|             |                     | 56      | 5280            | 15.33               | 17.33         |              |
|             |                     | 60      | 5300            | 15.36               | 17.36         |              |
|             |                     | 64      | 5320            | 15.38               | 17.38         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 15.42               | 17.42         | 98.79        |
|             |                     | 56      | 5280            | 15.31               | 17.31         |              |
|             |                     | 60      | 5300            | 15.42               | 17.42         |              |
|             |                     | 64      | 5320            | 15.56               | 17.56         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 16.83               | 18.83         | 98.08        |
|             |                     | 62      | 5310            | 16.82               | 18.82         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 15.36               | 17.36         | 98.11        |
|             |                     | 56      | 5280            | 15.30               | 17.30         |              |
|             |                     | 60      | 5300            | 15.34               | 17.34         |              |
|             |                     | 64      | 5320            | 15.42               | 17.42         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 16.82               | 18.82         | 95.88        |
|             |                     | 62      | 5310            | 16.74               | 18.74         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 15.21               | 17.21         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 15.44               | 17.44         | 97.79        |
|             |                     | 56      | 5280            | 15.33               | 17.33         |              |
|             |                     | 60      | 5300            | 15.46               | 17.46         |              |
|             |                     | 64      | 5320            | 15.52               | 17.52         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 16.51               | 18.51         | 97.30        |
|             |                     | 62      | 5310            | 16.40               | 18.40         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 15.89               | 17.89         | 95.55        |



| 5.5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 100     | 5500            | 12.21               | 14.21         | 98.46        |
|             |                     | 116     | 5580            | 12.20               | 14.20         |              |
|             |                     | 124     | 5620            | 12.15               | 14.15         |              |
|             |                     | 132     | 5660            | 12.12               | 14.12         |              |
|             |                     | 144     | 5720            | 11.90               | 13.90         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 12.06               | 14.06         | 98.79        |
|             |                     | 116     | 5580            | 11.95               | 13.95         |              |
|             |                     | 124     | 5620            | 12.00               | 14.00         |              |
|             |                     | 132     | 5660            | 12.00               | 14.00         |              |
|             |                     | 144     | 5720            | 11.44               | 13.44         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 13.42               | 15.42         | 98.08        |
|             |                     | 110     | 5550            | 13.45               | 15.45         |              |
|             |                     | 126     | 5630            | 13.25               | 15.25         |              |
|             |                     | 134     | 5670            | 13.01               | 15.01         |              |
|             |                     | 142     | 5710            | 12.85               | 14.85         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 11.98               | 13.98         | 98.11        |
|             |                     | 116     | 5580            | 11.88               | 13.88         |              |
|             |                     | 124     | 5620            | 11.93               | 13.93         |              |
|             |                     | 132     | 5660            | 11.94               | 13.94         |              |
|             |                     | 144     | 5720            | 11.37               | 13.37         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 13.33               | 15.33         | 95.88        |
|             |                     | 110     | 5550            | 13.39               | 15.39         |              |
|             |                     | 126     | 5630            | 13.26               | 15.26         |              |
|             |                     | 134     | 5670            | 12.93               | 14.93         |              |
|             |                     | 142     | 5710            | 12.75               | 14.75         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 12.17               | 14.17         | 93.21        |
|             |                     | 122     | 5610            | 12.14               | 14.14         |              |
|             |                     | 138     | 5690            | 11.90               | 13.90         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 12.05               | 14.05         | 97.79        |
|             |                     | 116     | 5580            | 11.91               | 13.91         |              |
|             |                     | 124     | 5620            | 11.85               | 13.85         |              |
|             |                     | 132     | 5660            | 11.76               | 13.76         |              |
|             |                     | 144     | 5720            | 11.44               | 13.44         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 12.96               | 14.96         | 97.30        |
|             |                     | 110     | 5550            | 12.95               | 14.95         |              |
|             |                     | 126     | 5630            | 12.89               | 14.89         |              |
|             |                     | 134     | 5670            | 12.53               | 14.53         |              |
|             |                     | 142     | 5710            | 12.33               | 14.33         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 12.56               | 14.56         | 95.55        |
|             |                     | 122     | 5610            | 12.40               | 14.40         |              |
|             |                     | 138     | 5690            | 12.27               | 14.27         |              |

|             | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | 14.54               | 16.54         | 99.18        |
|             |                     | 157     | 5785            | 14.30               | 16.30         |              |
|             |                     | 165     | 5825            | 14.28               | 16.28         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.10               | 16.10         | 99.12        |
|             |                     | 157     | 5785            | 13.84               | 15.84         |              |
|             |                     | 165     | 5825            | 13.83               | 15.83         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 15.52               | 17.52         | 98.08        |
|             |                     | 159     | 5795            | 15.23               | 17.23         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 14.08               | 16.08         | 98.30        |
|             |                     | 157     | 5785            | 13.83               | 15.83         |              |
|             |                     | 165     | 5825            | 13.76               | 15.76         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 15.42               | 17.42         | 96.69        |
|             |                     | 159     | 5795            | 15.15               | 17.15         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 14.23               | 16.23         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 14.20               | 16.20         | 99.33        |
|             |                     | 157     | 5785            | 13.93               | 15.93         |              |
|             |                     | 165     | 5825            | 13.88               | 15.88         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 15.44               | 17.44         | 97.82        |
|             |                     | 159     | 5795            | 14.77               | 16.77         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 14.45               | 16.45         | 95.88        |

**<For Product Specific Mode level 3>**
**<2.4GHz WLAN>**

|             | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps      | 1       | 2412            | 12.71               | 14.71         | 100.00       |
|             |                    | 6       | 2437            | 12.66               | 14.66         |              |
|             |                    | 11      | 2462            | 12.91               | 14.91         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 11.76               | 13.76         | 99.18        |
|             |                    | 6       | 2437            | 11.56               | 13.56         |              |
|             |                    | 11      | 2462            | 11.71               | 13.71         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 12.81               | 14.81         | 99.12        |
|             |                    | 6       | 2437            | 12.76               | 14.76         |              |
|             |                    | 11      | 2462            | 12.81               | 14.81         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 12.76               | 14.76         | 98.31        |
|             |                    | 6       | 2437            | 12.86               | 14.86         |              |
|             |                    | 11      | 2462            | 12.81               | 14.81         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 12.61               | 14.61         | 96.13        |
|             |                    | 6       | 2437            | 12.51               | 14.51         |              |
|             |                    | 9       | 2452            | 12.36               | 14.36         |              |



## &lt;5GHz WLAN&gt;

| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 36      | 5180            | 14.36               | 16.36         | 98.46        |
|             |                     | 40      | 5200            | 14.32               | 16.32         |              |
|             |                     | 44      | 5220            | 14.36               | 16.36         |              |
|             |                     | 48      | 5240            | 14.34               | 16.34         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 14.26               | 16.26         | 98.79        |
|             |                     | 40      | 5200            | 14.20               | 16.20         |              |
|             |                     | 44      | 5220            | 14.25               | 16.25         |              |
|             |                     | 48      | 5240            | 14.31               | 16.31         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 15.76               | 17.76         | 98.08        |
|             |                     | 46      | 5230            | 15.74               | 17.74         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 14.17               | 16.17         | 98.11        |
|             |                     | 40      | 5200            | 14.13               | 16.13         |              |
|             |                     | 44      | 5220            | 14.17               | 16.17         |              |
|             |                     | 48      | 5240            | 14.25               | 16.25         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 15.65               | 17.65         | 95.88        |
|             |                     | 46      | 5230            | 15.66               | 17.66         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.24               | 16.24         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 14.30               | 16.30         | 97.79        |
|             |                     | 40      | 5200            | 14.13               | 16.13         |              |
|             |                     | 44      | 5220            | 14.28               | 16.28         |              |
|             |                     | 48      | 5240            | 14.36               | 16.36         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 15.28               | 17.28         | 97.30        |
|             |                     | 46      | 5230            | 15.35               | 17.35         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 14.78               | 16.78         | 95.55        |

| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 52      | 5260            | 14.38               | 16.38         | 98.46        |
|             |                     | 56      | 5280            | 14.33               | 16.33         |              |
|             |                     | 60      | 5300            | 14.36               | 16.36         |              |
|             |                     | 64      | 5320            | 14.38               | 16.38         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 14.42               | 16.42         | 98.79        |
|             |                     | 56      | 5280            | 14.31               | 16.31         |              |
|             |                     | 60      | 5300            | 14.42               | 16.42         |              |
|             |                     | 64      | 5320            | 14.56               | 16.56         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 15.83               | 17.83         | 98.08        |
|             |                     | 62      | 5310            | 15.82               | 17.82         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 14.36               | 16.36         | 98.11        |
|             |                     | 56      | 5280            | 14.30               | 16.30         |              |
|             |                     | 60      | 5300            | 14.34               | 16.34         |              |
|             |                     | 64      | 5320            | 14.42               | 16.42         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 15.82               | 17.82         | 95.88        |
|             |                     | 62      | 5310            | 15.74               | 17.74         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 14.21               | 16.21         | 93.21        |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 14.44               | 16.44         | 97.79        |
|             |                     | 56      | 5280            | 14.35               | 16.35         |              |
|             |                     | 60      | 5300            | 14.46               | 16.46         |              |
|             |                     | 64      | 5320            | 14.52               | 16.52         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 15.51               | 17.51         | 97.30        |
|             |                     | 62      | 5310            | 15.40               | 17.40         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 14.89               | 16.89         | 95.55        |



| 5.5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 100     | 5500            | 12.21               | 14.21         | 98.46        |
|             |                     | 116     | 5580            | 12.20               | 14.20         |              |
|             |                     | 124     | 5620            | 12.15               | 14.15         |              |
|             |                     | 132     | 5660            | 12.12               | 14.12         |              |
|             |                     | 144     | 5720            | 11.90               | 13.90         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 12.06               | 14.06         | 98.79        |
|             |                     | 116     | 5580            | 11.95               | 13.95         |              |
|             |                     | 124     | 5620            | 12.00               | 14.00         |              |
|             |                     | 132     | 5660            | 12.00               | 14.00         |              |
|             |                     | 144     | 5720            | 11.44               | 13.44         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 13.42               | 15.42         | 98.08        |
|             |                     | 110     | 5550            | 13.45               | 15.45         |              |
|             |                     | 126     | 5630            | 13.25               | 15.25         |              |
|             |                     | 134     | 5670            | 13.01               | 15.01         |              |
|             |                     | 142     | 5710            | 12.85               | 14.85         |              |
|             | 802.11ac-VHT20 MCS0 | 100     | 5500            | 11.98               | 13.98         | 98.11        |
|             |                     | 116     | 5580            | 11.88               | 13.88         |              |
|             |                     | 124     | 5620            | 11.93               | 13.93         |              |
|             |                     | 132     | 5660            | 11.94               | 13.94         |              |
|             |                     | 144     | 5720            | 11.37               | 13.37         |              |
|             | 802.11ac-VHT40 MCS0 | 102     | 5510            | 13.33               | 15.33         | 95.88        |
|             |                     | 110     | 5550            | 13.39               | 15.39         |              |
|             |                     | 126     | 5630            | 13.26               | 15.26         |              |
|             |                     | 134     | 5670            | 12.93               | 14.93         |              |
|             |                     | 142     | 5710            | 12.75               | 14.75         |              |
|             | 802.11ac-VHT80 MCS0 | 106     | 5530            | 12.17               | 14.17         | 93.21        |
|             |                     | 122     | 5610            | 12.14               | 14.14         |              |
|             |                     | 138     | 5690            | 11.90               | 13.90         |              |
|             | 802.11ax-HE20 MCS0  | 100     | 5500            | 12.05               | 14.05         | 97.79        |
|             |                     | 116     | 5580            | 11.91               | 13.91         |              |
|             |                     | 124     | 5620            | 11.85               | 13.85         |              |
|             |                     | 132     | 5660            | 11.76               | 13.76         |              |
|             |                     | 144     | 5720            | 11.44               | 13.44         |              |
|             | 802.11ax-HE40 MCS0  | 102     | 5510            | 12.96               | 14.96         | 97.30        |
|             |                     | 110     | 5550            | 12.95               | 14.95         |              |
|             |                     | 126     | 5630            | 12.89               | 14.89         |              |
|             |                     | 134     | 5670            | 12.53               | 14.53         |              |
|             |                     | 142     | 5710            | 12.33               | 14.33         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 12.56               | 14.56         | 95.55        |
|             |                     | 122     | 5610            | 12.40               | 14.40         |              |
|             |                     | 138     | 5690            | 12.27               | 14.27         |              |

| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
|             | 802.11a 6Mbps       | 149     | 5745            | 12.54               | 14.54         | 99.18        |
|             |                     | 157     | 5785            | 12.29               | 14.29         |              |
|             |                     | 165     | 5825            | 12.27               | 14.27         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 12.10               | 14.10         | 99.12        |
|             |                     | 157     | 5785            | 11.83               | 13.83         |              |
|             |                     | 165     | 5825            | 11.83               | 13.83         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 13.52               | 15.52         | 98.08        |
|             |                     | 159     | 5795            | 13.24               | 15.24         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.09               | 14.09         | 98.30        |
|             |                     | 157     | 5785            | 11.81               | 13.81         |              |
|             |                     | 165     | 5825            | 11.74               | 13.74         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 13.42               | 15.42         | 96.69        |
|             |                     | 159     | 5795            | 13.16               | 15.16         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.22               | 14.22         | 93.70        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 12.20               | 14.20         | 99.33        |
|             |                     | 157     | 5785            | 11.93               | 13.93         |              |
|             |                     | 165     | 5825            | 11.87               | 13.87         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 13.14               | 15.14         | 97.82        |
|             |                     | 159     | 5795            | 12.77               | 14.77         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.45               | 14.45         | 95.88        |

**<2.4GHz Bluetooth>**
**<Chain 0>**
**<For Head mode>**

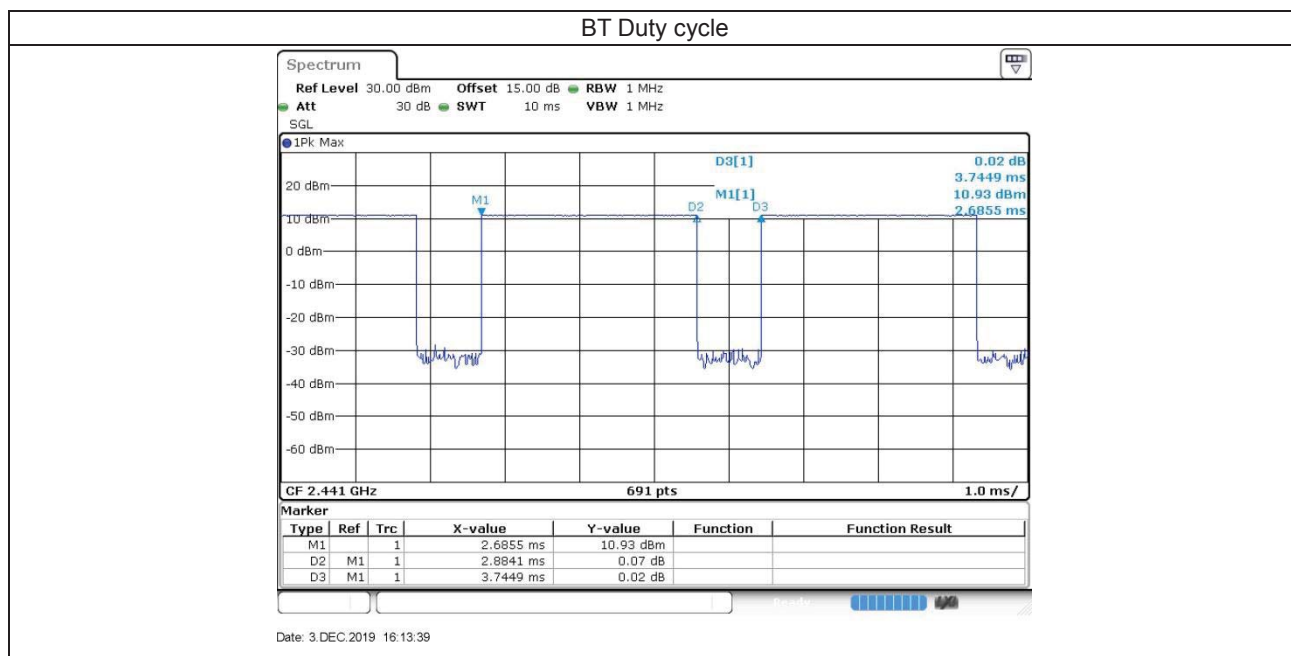
| Mode     | Channel | Frequency (MHz) | Average power (dBm) |       |       | Tune-up Limit(dBm) |       |       |
|----------|---------|-----------------|---------------------|-------|-------|--------------------|-------|-------|
|          |         |                 | 1Mbps               | 2Mbps | 3Mbps | 1Mbps              | 2Mbps | 3Mbps |
| BR / EDR | CH 00   | 2402            | 7.66                | 5.16  | 5.06  | 9.66               | 7.16  | 7.06  |
|          | CH 39   | 2441            | 8.61                | 6.31  | 6.41  | 10.61              | 8.31  | 8.41  |
|          | CH 78   | 2480            | 6.92                | 4.72  | 4.72  | 8.92               | 6.72  | 6.72  |

| Mode | Channel | Frequency (MHz) | Average power (dBm) |       | Tune-up Limit(dBm) |       |
|------|---------|-----------------|---------------------|-------|--------------------|-------|
|      |         |                 | 1Mbps               | 2Mbps | 1Mbps              | 2Mbps |
| LE   | CH 00   | 2402            | 5.7                 | 5.8   | 7.7                | 7.8   |
|      | CH 19   | 2440            | 7.2                 | 7.3   | 9.2                | 9.3   |
|      | CH 39   | 2480            | 5.1                 | 5.3   | 7.1                | 7.3   |

**<For Hotspot/Body-worn/extremity mode>**

| Mode     | Channel | Frequency (MHz) | Average power (dBm) |       |       | Tune-up Limit(dBm) |       |       |
|----------|---------|-----------------|---------------------|-------|-------|--------------------|-------|-------|
|          |         |                 | 1Mbps               | 2Mbps | 3Mbps | 1Mbps              | 2Mbps | 3Mbps |
| BR / EDR | CH 00   | 2402            | 13.05               | 10.55 | 10.45 | 15.05              | 12.55 | 12.45 |
|          | CH 39   | 2441            | 14.07               | 11.77 | 11.87 | 16.07              | 13.77 | 13.87 |
|          | CH 78   | 2480            | 12.10               | 9.90  | 9.90  | 14.10              | 11.90 | 11.90 |

| Mode | Channel | Frequency (MHz) | Average power (dBm) |       | Tune-up Limit(dBm) |       |
|------|---------|-----------------|---------------------|-------|--------------------|-------|
|      |         |                 | 1Mbps               | 2Mbps | 1Mbps              | 2Mbps |
| LE   | CH 00   | 2402            | 7.70                | 7.80  | 9.70               | 9.80  |
|      | CH 19   | 2440            | 9.20                | 9.30  | 11.20              | 11.30 |
|      | CH 39   | 2480            | 7.10                | 7.30  | 9.10               | 9.30  |


**General Note:**

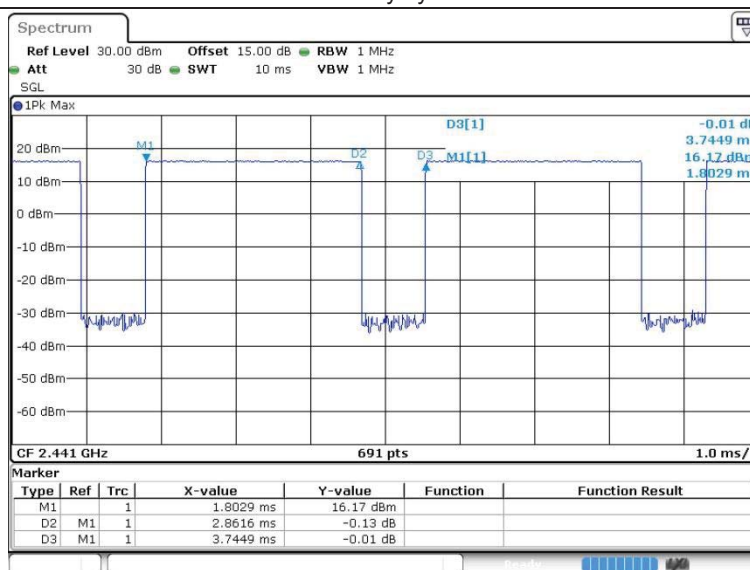
For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.01% considered in SAR testing.

## <Chain 1>

| Mode     | Channel | Frequency (MHz) | Average power (dBm) |       |       | Tune-up Limit(dBm) |       |       |
|----------|---------|-----------------|---------------------|-------|-------|--------------------|-------|-------|
|          |         |                 | 1Mbps               | 2Mbps | 3Mbps | 1Mbps              | 2Mbps | 3Mbps |
| BR / EDR | CH 00   | 2402            | 7.72                | 4.12  | 4.12  | 9.72               | 6.12  | 6.12  |
|          | CH 39   | 2441            | 8.52                | 5.12  | 5.12  | 10.52              | 7.12  | 7.12  |
|          | CH 78   | 2480            | 6.84                | 3.64  | 3.64  | 8.84               | 5.64  | 5.64  |

| Mode | Channel | Frequency (MHz) | Average power (dBm) |       | Tune-up Limit(dBm) |       |
|------|---------|-----------------|---------------------|-------|--------------------|-------|
|      |         |                 | 1Mbps               | 2Mbps | 1Mbps              | 2Mbps |
| LE   | CH 00   | 2402            | 6.20                | 6.30  | 8.20               | 8.30  |
|      | CH 19   | 2440            | 7.80                | 7.90  | 9.80               | 9.90  |
|      | CH 39   | 2480            | 6.40                | 6.50  | 8.40               | 8.50  |

## BT Duty cycle



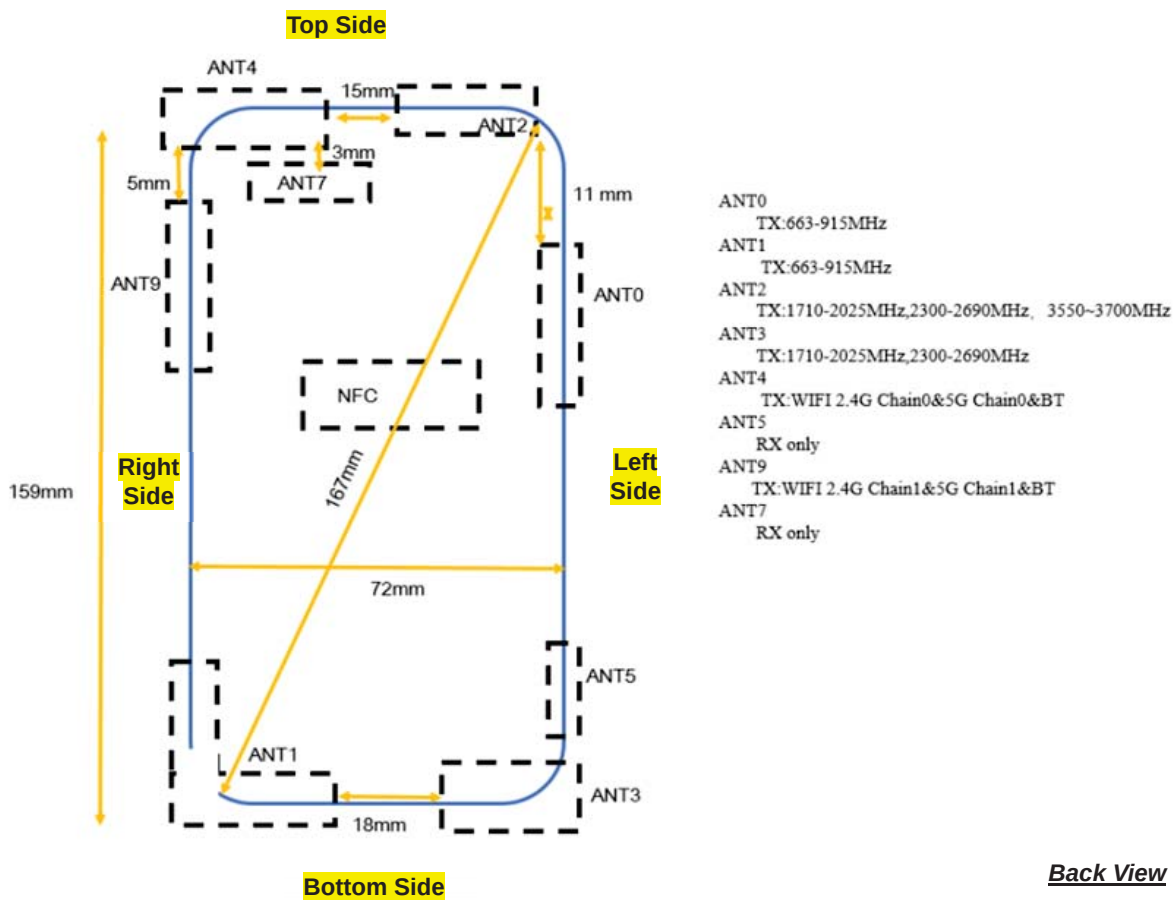
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## General Note:

For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.41% considered in SAR testing.

## 16. Antenna Location

<Mobile Phone>



| Antennas Description |               |
|----------------------|---------------|
| WWAN UAT             | ANT 0 / ANT 2 |
| WWAN LAT             | ANT 1 / ANT 3 |

| Distance of the Antenna to the EUT surface/edge |        |        |          |             |            |           |
|-------------------------------------------------|--------|--------|----------|-------------|------------|-----------|
| Antennas                                        | Back   | Front  | Top Side | Bottom Side | Right Side | Left Side |
| WWAN UAT                                        | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | ≤ 25mm    |
| WWAN LAT                                        | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | ≤ 25mm     | ≤ 25mm    |
| BT&WLAN                                         | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | >25mm     |

| Positions for SAR tests; Hotspot mode |      |       |          |             |            |           |
|---------------------------------------|------|-------|----------|-------------|------------|-----------|
| Antennas                              | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| WWAN UAT                              | Yes  | Yes   | Yes      | No          | Yes        | Yes       |
| WWAN LAT                              | Yes  | Yes   | No       | Yes         | Yes        | Yes       |
| BT&WLAN                               | Yes  | Yes   | Yes      | No          | Yes        | No        |

### General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are  $\geq 9\text{cm} \times 5\text{cm}$ , the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge

## 17. SAR Test Results

### 17.1 Head SAR

#### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
4. For WWAN UAT antenna, when the audio is actively routed through the earpiece receiver, and the LCD display is off, and the proximity sensor is triggered which indicating the next-to-head condition then power reduction will be implemented immediately at GSM850/GSM1900, WCDMA B2 / B4 / B5, CDMA BC0/BC1/BC10, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B48 / B66 / B71 and 5G NR n2/n5/n66/n71/n41.
5. For WWAN UAT antenna, hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM850/GSM1900, WCDMA B2 / B4 / B5, CDMA BC0/BC1/BC10, LTE B2 / B5 / B7 / B13 / B25 / B26 / B30 / B38 / B41 / B48 and 5G NR n2/n5/n66/n71/n41.
6. For WWAN LAT antenna, hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B7 / B25 / B30 / B38 / B41 / B48 / B66 and 5G NR n2/n5/n66/n71/n41.
7. For WWAN UAT antenna, when the p-sensor is detect handheld state, power reduction will be activated to limit the maximum power of LTE B2 / B7 / B25 / B30 / B48 for front/back/bottom sides.
8. For WWAN LAT antenna, when the p-sensor is detect handheld state, power reduction will be activated to limit the maximum power of UMTS B2/B4, CDMA BC1 and LTE B2 / B4 / B7 / B25 / B66 for front/back/bottom sides.
9. For WLAN when transmit simultaneous with WWAN LAT or UAT, power reduction will be activated to limit the maximum power for head / hotspot / body-worn / extremity.
10. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is  $\leq 1.2$  W/kg, SAR testing with a headset connected to the handset is not required.
11. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension  $> 15.0$  cm or an overall diagonal dimension  $> 16.0$  cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold, WCDMA B2/B4, CDMA BC1 and LTE B2 / B4 / B5 / B7 / B25 / B26 / B30 / B66 / B48 is required to be tested

**GSM Note:**

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (3Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

**UMTS Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA / HSPA+) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

**CDMA Note:**

1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $> \text{not } \frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $> \text{not } \frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. LTE band 2/4/17/38 SAR test was covered by Band 25/66/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

**5G NR Note:**

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
2. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
3. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
4. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested
5. 16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, 16QAM/64QAM/256QAM SAR testing are not required.
6. Smaller bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 or U-NII-2A SAR testing is not required when the U-NII-1 or U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band or U-NII-2A.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. When WLAN transmit simultaneous with WWAN will limit different maximum output power level as following, detail description include operational description
  - a. Level 1: the WLAN is transmitting standalone
  - b. Level 2: the WWAN transmit simultaneous with 2.4GHz WLAN or 5GHz WLAN
  - c. Level 3: the WWAN and FR1 or nter-band CA transmit simultaneous with 2.4GHz WLAN or 5GHz WLAN + Bluetooth

**<GSM SAR>**

| Plot No. | Band        | Mode            | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|-----------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_UAT  | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Reduced         | 128 | 824.2       | 24.73               | 25.80               | 1.279                  | 0.05             | 0.190                  | 0.243                  |
|          | GSM850_UAT  | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Reduced         | 128 | 824.2       | 24.73               | 25.80               | 1.279                  | 0.02             | 0.033                  | 0.042                  |
|          | GSM850_UAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Reduced         | 128 | 824.2       | 24.73               | 25.80               | 1.279                  | -0.06            | 0.264                  | 0.338                  |
|          | GSM850_UAT  | GPRS(3 Tx slot) | Left Tilted   | 0mm      | Reduced         | 128 | 824.2       | 24.73               | 25.80               | 1.279                  | 0.03             | 0.051                  | 0.065                  |
|          | GSM850_UAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Reduced         | 189 | 836.4       | 24.43               | 25.80               | 1.371                  | 0.09             | 0.268                  | 0.367                  |
| 01       | GSM850_UAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Reduced         | 251 | 848.8       | 24.40               | 25.80               | 1.380                  | -0.07            | 0.352                  | 0.486                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.02             | 0.098                  | 0.126                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.02             | 0.061                  | 0.078                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.05             | 0.139                  | 0.180                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Left Tilted   | 0mm      | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.01             | 0.047                  | 0.061                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Full            | 189 | 836.4       | 28.62               | 29.80               | 1.312                  | 0.14             | 0.158                  | 0.207                  |
|          | GSM850_LAT  | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Full            | 251 | 848.8       | 28.54               | 29.80               | 1.337                  | 0.08             | 0.146                  | 0.195                  |
|          | GSM1900_UAT | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Reduced         | 661 | 1880        | 16.80               | 17.20               | 1.096                  | 0.03             | 0.350                  | 0.384                  |
|          | GSM1900_UAT | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Reduced         | 661 | 1880        | 16.80               | 17.20               | 1.096                  | 0.07             | 0.396                  | 0.434                  |
|          | GSM1900_UAT | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Reduced         | 661 | 1880        | 16.80               | 17.20               | 1.096                  | -0.05            | 0.241                  | 0.264                  |
|          | GSM1900_UAT | GPRS(3 Tx slot) | Left Tilted   | 0mm      | Reduced         | 661 | 1880        | 16.80               | 17.20               | 1.096                  | 0.12             | 0.312                  | 0.342                  |
|          | GSM1900_UAT | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Reduced         | 512 | 1850.2      | 16.48               | 17.20               | 1.180                  | 0.06             | 0.373                  | 0.440                  |
| 02       | GSM1900_UAT | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Reduced         | 810 | 1909.8      | 16.63               | 17.20               | 1.140                  | 0.04             | 0.393                  | 0.448                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | 0.08             | 0.119                  | 0.142                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Right Tilted  | 0mm      | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | 0.04             | 0.102                  | 0.122                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Left Cheek    | 0mm      | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | 0.12             | 0.083                  | 0.099                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Left Tilted   | 0mm      | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | 0.06             | 0.081                  | 0.097                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Full            | 512 | 1850.2      | 25.52               | 26.50               | 1.253                  | -0.09            | 0.107                  | 0.134                  |
|          | GSM1900_LAT | GPRS(3 Tx slot) | Right Cheek   | 0mm      | Full            | 810 | 1909.8      | 25.67               | 26.50               | 1.211                  | 0.05             | 0.100                  | 0.121                  |

**<WCDMA SAR>**

| Plot No. | Band         | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA V_UAT  | RMC 12.2Kbps | Right Cheek   | 0mm      | Reduced         | 4182 | 836.4       | 20.89               | 21.80               | 1.233                  | 0.03             | 0.391                  | 0.482                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 4182 | 836.4       | 20.89               | 21.80               | 1.233                  | 0.05             | 0.072                  | 0.089                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Reduced         | 4182 | 836.4       | 20.89               | 21.80               | 1.233                  | 0.08             | 0.499                  | 0.615                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Left Tilted   | 0mm      | Reduced         | 4182 | 836.4       | 20.89               | 21.80               | 1.233                  | 0.02             | 0.073                  | 0.089                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Reduced         | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | -0.04            | 0.510                  | 0.632                  |
| 03       | WCDMA V_UAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Reduced         | 4233 | 846.6       | 20.80               | 21.80               | 1.259                  | -0.06            | 0.521                  | 0.656                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Right Cheek   | 0mm      | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.09            | 0.123                  | 0.144                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Right Tilted  | 0mm      | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.07            | 0.062                  | 0.073                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.16            | 0.156                  | 0.182                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Left Tilted   | 0mm      | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | 0.08             | 0.076                  | 0.089                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | -0.08            | 0.163                  | 0.192                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 4233 | 846.6       | 24.10               | 24.80               | 1.175                  | -0.06            | 0.154                  | 0.181                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Reduced         | 1413 | 1732.6      | 13.32               | 14.00               | 1.169                  | 0.03             | 0.413                  | 0.483                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 1413 | 1732.6      | 13.32               | 14.00               | 1.169                  | 0.18             | 0.549                  | 0.642                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Reduced         | 1413 | 1732.6      | 13.32               | 14.00               | 1.169                  | 0.07             | 0.275                  | 0.322                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Left Tilted   | 0mm      | Reduced         | 1413 | 1732.6      | 13.32               | 14.00               | 1.169                  | 0.12             | 0.356                  | 0.416                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 1312 | 1712.4      | 13.21               | 14.00               | 1.199                  | 0.02             | 0.521                  | 0.625                  |
| 04       | WCDMA IV_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 1513 | 1752.6      | 13.28               | 14.00               | 1.180                  | 0.13             | 0.566                  | 0.668                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | -0.03            | 0.181                  | 0.218                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | -0.18            | 0.100                  | 0.120                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | -0.07            | 0.235                  | 0.283                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Left Tilted   | 0mm      | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | 0.02             | 0.098                  | 0.118                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 1312 | 1712.4      | 23.94               | 24.80               | 1.219                  | 0.01             | 0.224                  | 0.273                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 1513 | 1752.6      | 23.97               | 24.80               | 1.211                  | 0.02             | 0.244                  | 0.295                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Reduced         | 9400 | 1880        | 13.46               | 14.00               | 1.132                  | 0.04             | 0.541                  | 0.613                  |
| 05       | WCDMA II_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 9400 | 1880        | 13.46               | 14.00               | 1.132                  | 0.04             | 0.654                  | 0.741                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Reduced         | 9400 | 1880        | 13.46               | 14.00               | 1.132                  | 0.06             | 0.405                  | 0.459                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Left Tilted   | 0mm      | Reduced         | 9400 | 1880        | 13.46               | 14.00               | 1.132                  | 0.02             | 0.479                  | 0.542                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 9262 | 1852.4      | 13.38               | 14.00               | 1.153                  | 0.01             | 0.592                  | 0.683                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Reduced         | 9538 | 1907.6      | 13.41               | 14.00               | 1.146                  | -0.09            | 0.631                  | 0.723                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.16            | 0.257                  | 0.288                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Right Tilted  | 0mm      | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.12            | 0.206                  | 0.231                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Left Cheek    | 0mm      | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.03            | 0.186                  | 0.209                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Left Tilted   | 0mm      | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.03            | 0.156                  | 0.175                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Full            | 9262 | 1852.4      | 24.10               | 24.80               | 1.175                  | -0.12            | 0.227                  | 0.267                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Right Cheek   | 0mm      | Full            | 9538 | 1907.6      | 24.18               | 24.80               | 1.153                  | -0.09            | 0.248                  | 0.286                  |



**<CDMA SAR>**

| Plot No. | Band              | Mode     | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA2000 BC0_UAT  | RC3+SO55 | Right Cheek   | 0mm      | Reduced         | 384  | 836.52      | 20.36               | 21.80               | 1.393                  | 0.02             | 0.343                  | 0.478                  |
|          | CDMA2000 BC0_UAT  | RC3+SO55 | Right Tilted  | 0mm      | Reduced         | 384  | 836.52      | 20.36               | 21.80               | 1.393                  | 0.08             | 0.068                  | 0.094                  |
|          | CDMA2000 BC0_UAT  | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 384  | 836.52      | 20.36               | 21.80               | 1.393                  | 0.09             | 0.476                  | 0.663                  |
|          | CDMA2000 BC0_UAT  | RC3+SO55 | Left Tilted   | 0mm      | Reduced         | 384  | 836.52      | 20.36               | 21.80               | 1.393                  | 0.03             | 0.068                  | 0.094                  |
|          | CDMA2000 BC0_UAT  | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 1013 | 824.7       | 20.35               | 21.80               | 1.396                  | 0.07             | 0.471                  | 0.658                  |
| 06       | CDMA2000 BC0_UAT  | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 777  | 848.31      | 20.35               | 21.80               | 1.396                  | 0.04             | 0.487                  | 0.680                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Right Cheek   | 0mm      | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | 0.18             | 0.123                  | 0.152                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Right Tilted  | 0mm      | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | 0.12             | 0.077                  | 0.095                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Left Cheek    | 0mm      | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | 0.02             | 0.135                  | 0.166                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Left Tilted   | 0mm      | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | 0.01             | 0.056                  | 0.069                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Left Cheek    | 0mm      | Full            | 1013 | 824.7       | 23.85               | 24.80               | 1.245                  | 0.03             | 0.142                  | 0.177                  |
|          | CDMA2000 BC0_LAT  | RC3+SO55 | Left Cheek    | 0mm      | Full            | 777  | 848.31      | 23.84               | 24.80               | 1.247                  | 0.04             | 0.133                  | 0.166                  |
|          | CDMA2000 BC10_UAT | RC3+SO55 | Right Cheek   | 0mm      | Reduced         | 580  | 820.5       | 20.39               | 21.80               | 1.384                  | -0.04            | 0.350                  | 0.484                  |
|          | CDMA2000 BC10_UAT | RC3+SO55 | Right Tilted  | 0mm      | Reduced         | 580  | 820.5       | 20.39               | 21.80               | 1.384                  | 0.15             | 0.067                  | 0.093                  |
| 07       | CDMA2000 BC10_UAT | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 580  | 820.5       | 20.39               | 21.80               | 1.384                  | 0.02             | 0.515                  | 0.713                  |
|          | CDMA2000 BC10_UAT | RC3+SO55 | Left Tilted   | 0mm      | Reduced         | 580  | 820.5       | 20.39               | 21.80               | 1.384                  | 0.03             | 0.076                  | 0.105                  |
|          | CDMA2000 BC10_UAT | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 476  | 817.9       | 20.35               | 21.80               | 1.396                  | 0.02             | 0.473                  | 0.660                  |
|          | CDMA2000 BC10_UAT | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 684  | 823.1       | 20.33               | 21.80               | 1.403                  | 0.06             | 0.475                  | 0.666                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Right Cheek   | 0mm      | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.18             | 0.124                  | 0.149                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Right Tilted  | 0mm      | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.02             | 0.077                  | 0.093                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Left Cheek    | 0mm      | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | -0.04            | 0.127                  | 0.153                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Left Tilted   | 0mm      | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.04             | 0.060                  | 0.072                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Left Cheek    | 0mm      | Full            | 476  | 817.9       | 23.91               | 24.80               | 1.227                  | 0.01             | 0.124                  | 0.152                  |
|          | CDMA2000 BC10_LAT | RC3+SO55 | Left Cheek    | 0mm      | Full            | 684  | 823.1       | 23.97               | 24.80               | 1.211                  | 0.03             | 0.138                  | 0.167                  |
| 08       | CDMA2000 BC1_UAT  | RC3+SO55 | Right Cheek   | 0mm      | Reduced         | 600  | 1880        | 12.72               | 14.00               | 1.343                  | -0.14            | 0.592                  | 0.795                  |
|          | CDMA2000 BC1_UAT  | RC3+SO55 | Right Tilted  | 0mm      | Reduced         | 25   | 1851.25     | 12.48               | 14.00               | 1.419                  | -0.02            | 0.491                  | 0.697                  |
|          | CDMA2000 BC1_UAT  | RC3+SO55 | Left Cheek    | 0mm      | Reduced         | 1175 | 1908.75     | 12.58               | 14.00               | 1.387                  | -0.02            | 0.518                  | 0.718                  |
|          | CDMA2000 BC1_UAT  | RC3+SO55 | Left Tilted   | 0mm      | Reduced         | 600  | 1880        | 12.72               | 14.00               | 1.343                  | -0.14            | 0.511                  | 0.686                  |
|          | CDMA2000 BC1_UAT  | RC3+SO55 | Right Tilted  | 0mm      | Reduced         | 600  | 1880        | 12.72               | 14.00               | 1.343                  | -0.01            | 0.399                  | 0.536                  |
|          | CDMA2000 BC1_UAT  | RC3+SO55 | Right Tilted  | 0mm      | Reduced         | 600  | 1880        | 12.72               | 14.00               | 1.343                  | -0.13            | 0.438                  | 0.588                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Right Cheek   | 0mm      | Full            | 600  | 1880        | 23.80               | 24.80               | 1.259                  | -0.08            | 0.244                  | 0.307                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Right Tilted  | 0mm      | Full            | 600  | 1880        | 23.80               | 24.80               | 1.259                  | 0.05             | 0.170                  | 0.214                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Left Cheek    | 0mm      | Full            | 600  | 1880        | 23.80               | 24.80               | 1.259                  | 0.03             | 0.152                  | 0.191                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Left Tilted   | 0mm      | Full            | 600  | 1880        | 23.80               | 24.80               | 1.259                  | 0.05             | 0.137                  | 0.172                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Right Cheek   | 0mm      | Full            | 25   | 1851.25     | 23.51               | 24.80               | 1.346                  | 0.05             | 0.245                  | 0.330                  |
|          | CDMA2000 BC1_LAT  | RC3+SO55 | Right Cheek   | 0mm      | Full            | 1175 | 1908.75     | 23.67               | 24.80               | 1.297                  | 0.11             | 0.212                  | 0.275                  |



## &lt;FDD LTE SAR&gt;

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 133322 | 673         | 20.58               | 21.80               | 1.324                  | 0.03             | 0.357                  | 0.473                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 133322 | 673         | 20.58               | 21.80               | 1.324                  | 0.15             | 0.081                  | 0.107                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 133322 | 673         | 20.58               | 21.80               | 1.324                  | 0.09             | 0.487                  | 0.645                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 133322 | 673         | 20.58               | 21.80               | 1.324                  | -0.03            | 0.068                  | 0.090                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 133322 | 673         | 20.34               | 21.80               | 1.400                  | 0.02             | 0.429                  | 0.600                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 133322 | 673         | 20.34               | 21.80               | 1.400                  | 0.07             | 0.097                  | 0.136                  |
| 09       | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 133322 | 673         | 20.34               | 21.80               | 1.400                  | 0.16             | 0.505                  | 0.707                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 133322 | 673         | 20.34               | 21.80               | 1.400                  | 0.09             | 0.083                  | 0.115                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.07            | 0.105                  | 0.109                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.01             | 0.050                  | 0.051                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.04             | 0.111                  | 0.115                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.01             | 0.050                  | 0.051                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.02             | 0.082                  | 0.084                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.08             | 0.053                  | 0.054                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.02             | 0.088                  | 0.090                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.05             | 0.041                  | 0.042                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Right Cheek   | 0mm      | Reduced         | 23095  | 707.5       | 19.23               | 20.30               | 1.279                  | 0.05             | 0.389                  | 0.498                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Right Tilted  | 0mm      | Reduced         | 23095  | 707.5       | 19.23               | 20.30               | 1.279                  | 0.07             | 0.081                  | 0.103                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Left Cheek    | 0mm      | Reduced         | 23095  | 707.5       | 19.23               | 20.30               | 1.279                  | 0.02             | 0.458                  | 0.586                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Left Tilted   | 0mm      | Reduced         | 23095  | 707.5       | 19.23               | 20.30               | 1.279                  | -0.06            | 0.083                  | 0.107                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Reduced         | 23095  | 707.5       | 19.20               | 20.30               | 1.288                  | 0.1              | 0.403                  | 0.519                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Reduced         | 23095  | 707.5       | 19.20               | 20.30               | 1.288                  | -0.06            | 0.083                  | 0.106                  |
| 10       | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Reduced         | 23095  | 707.5       | 19.20               | 20.30               | 1.288                  | 0.13             | 0.470                  | 0.605                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Reduced         | 23095  | 707.5       | 19.20               | 20.30               | 1.288                  | 0.05             | 0.085                  | 0.110                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Right Cheek   | 0mm      | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | -0.03            | 0.138                  | 0.168                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Right Tilted  | 0mm      | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.05             | 0.078                  | 0.095                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Left Cheek    | 0mm      | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | -0.11            | 0.169                  | 0.206                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Left Tilted   | 0mm      | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.02             | 0.069                  | 0.084                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | -0.06            | 0.120                  | 0.141                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.08             | 0.063                  | 0.074                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.01             | 0.147                  | 0.173                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.01             | 0.054                  | 0.063                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 23230  | 782         | 20.20               | 21.30               | 1.288                  | 0.03             | 0.427                  | 0.550                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 23230  | 782         | 20.20               | 21.30               | 1.288                  | 0.07             | 0.088                  | 0.113                  |
| 11       | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 23230  | 782         | 20.20               | 21.30               | 1.288                  | 0.09             | 0.554                  | 0.714                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 23230  | 782         | 20.20               | 21.30               | 1.288                  | -0.06            | 0.086                  | 0.111                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Reduced         | 23230  | 782         | 20.18               | 21.30               | 1.294                  | 0.02             | 0.419                  | 0.542                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Reduced         | 23230  | 782         | 20.18               | 21.30               | 1.294                  | 0.09             | 0.085                  | 0.110                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Reduced         | 23230  | 782         | 20.18               | 21.30               | 1.294                  | 0.04             | 0.522                  | 0.676                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Reduced         | 23230  | 782         | 20.18               | 21.30               | 1.294                  | 0.12             | 0.079                  | 0.102                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | -0.04            | 0.094                  | 0.116                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | 0.02             | 0.045                  | 0.056                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | 0.13             | 0.121                  | 0.148                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | 0.07             | 0.041                  | 0.050                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | -0.04            | 0.076                  | 0.091                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | 0.02             | 0.043                  | 0.051                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | 0.01             | 0.092                  | 0.110                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | 0.05             | 0.037                  | 0.045                  |



| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 20525 | 836.5       | 19.52               | 20.80               | 1.343                  | 0.05             | 0.302                  | 0.406                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | Reduced         | 20525 | 836.5       | 19.52               | 20.80               | 1.343                  | 0.07             | 0.065                  | 0.087                  |
| 12       | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Reduced         | 20525 | 836.5       | 19.52               | 20.80               | 1.343                  | -0.13            | 0.450                  | 0.604                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | Reduced         | 20525 | 836.5       | 19.52               | 20.80               | 1.343                  | 0.13             | 0.067                  | 0.090                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Reduced         | 20525 | 836.5       | 19.50               | 20.80               | 1.349                  | 0.02             | 0.306                  | 0.413                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Reduced         | 20525 | 836.5       | 19.50               | 20.80               | 1.349                  | 0.15             | 0.067                  | 0.090                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Reduced         | 20525 | 836.5       | 19.50               | 20.80               | 1.349                  | 0.01             | 0.448                  | 0.604                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Reduced         | 20525 | 836.5       | 19.50               | 20.80               | 1.349                  | -0.09            | 0.068                  | 0.092                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0.08             | 0.116                  | 0.145                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0.03             | 0.071                  | 0.089                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0.04             | 0.164                  | 0.205                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | -0.05            | 0.070                  | 0.088                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | 0.07             | 0.098                  | 0.120                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | 0.1              | 0.061                  | 0.075                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | 0.09             | 0.147                  | 0.180                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | -0.16            | 0.058                  | 0.071                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 26865 | 831.5       | 19.76               | 20.80               | 1.271                  | 0.06             | 0.193                  | 0.245                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 26865 | 831.5       | 19.76               | 20.80               | 1.271                  | 0.04             | 0.045                  | 0.057                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 26865 | 831.5       | 19.76               | 20.80               | 1.271                  | -0.08            | 0.288                  | 0.366                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 26865 | 831.5       | 19.76               | 20.80               | 1.271                  | 0.03             | 0.080                  | 0.102                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Right Cheek   | 0mm      | Reduced         | 26865 | 831.5       | 19.68               | 20.80               | 1.294                  | 0.06             | 0.225                  | 0.291                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Right Tilted  | 0mm      | Reduced         | 26865 | 831.5       | 19.68               | 20.80               | 1.294                  | 0.12             | 0.066                  | 0.085                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Left Cheek    | 0mm      | Reduced         | 26865 | 831.5       | 19.68               | 20.80               | 1.294                  | 0.08             | 0.437                  | 0.566                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Left Tilted   | 0mm      | Reduced         | 26865 | 831.5       | 19.68               | 20.80               | 1.294                  | -0.03            | 0.080                  | 0.104                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Left Cheek    | 0mm      | Reduced         | 26765 | 821.5       | 19.59               | 20.80               | 1.321                  | 0.04             | 0.535                  | 0.707                  |
|          | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Left Cheek    | 0mm      | Reduced         | 26915 | 836.5       | 19.56               | 20.80               | 1.330                  | 0.07             | 0.519                  | 0.691                  |
| 13       | LTE Band 26_UAT | 15M      | QPSK       | 36      | 20        | Left Cheek    | 0mm      | Reduced         | 26965 | 841.5       | 19.55               | 20.80               | 1.334                  | 0.09             | 0.534                  | 0.712                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 26865 | 831.5       | 22.99               | 23.80               | 1.205                  | -0.09            | 0.068                  | 0.082                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 26865 | 831.5       | 22.99               | 23.80               | 1.205                  | 0.05             | 0.076                  | 0.091                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 26865 | 831.5       | 22.99               | 23.80               | 1.205                  | -0.03            | 0.136                  | 0.164                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 26865 | 831.5       | 22.99               | 23.80               | 1.205                  | 0.07             | 0.060                  | 0.073                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 26765 | 821.5       | 22.81               | 23.80               | 1.256                  | 0.04             | 0.145                  | 0.182                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 26915 | 836.5       | 22.93               | 23.80               | 1.222                  | 0                | 0.163                  | 0.199                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 26965 | 841.5       | 22.95               | 23.80               | 1.216                  | 0.09             | 0.162                  | 0.197                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 36      | 20        | Right Cheek   | 0mm      | Full            | 26865 | 831.5       | 22.07               | 22.80               | 1.183                  | -0.07            | 0.061                  | 0.072                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 36      | 20        | Right Tilted  | 0mm      | Full            | 26865 | 831.5       | 22.07               | 22.80               | 1.183                  | 0.05             | 0.061                  | 0.072                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 36      | 20        | Left Cheek    | 0mm      | Full            | 26865 | 831.5       | 22.07               | 22.80               | 1.183                  | 0.06             | 0.119                  | 0.141                  |
|          | LTE Band 26_LAT | 15M      | QPSK       | 36      | 20        | Left Tilted   | 0mm      | Full            | 26865 | 831.5       | 22.07               | 22.80               | 1.183                  | -0.06            | 0.047                  | 0.056                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 132322 | 1745        | 12.04               | 13.00               | 1.247                  | 0.02             | 0.286                  | 0.357                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 132322 | 1745        | 12.04               | 13.00               | 1.247                  | 0.07             | 0.373                  | 0.465                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 132322 | 1745        | 12.04               | 13.00               | 1.247                  | 0.09             | 0.246                  | 0.307                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 132322 | 1745        | 12.04               | 13.00               | 1.247                  | 0.13             | 0.337                  | 0.420                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 132322 | 1745        | 12.02               | 13.00               | 1.253                  | -0.06            | 0.406                  | 0.509                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 132322 | 1745        | 12.02               | 13.00               | 1.253                  | 0.02             | 0.456                  | 0.571                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 132322 | 1745        | 12.02               | 13.00               | 1.253                  | -0.08            | 0.275                  | 0.345                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 132322 | 1745        | 12.02               | 13.00               | 1.253                  | 0.04             | 0.371                  | 0.465                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 132072 | 1720        | 11.97               | 13.00               | 1.268                  | 0.09             | 0.440                  | 0.558                  |
| 14       | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 132572 | 1770        | 11.99               | 13.00               | 1.262                  | 0.12             | 0.583                  | 0.736                  |
|          | LTE Band 66C_UAT | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 132322 | 1745        | 12.69               | 13.00               | 1.074                  | 0.1              | 0.612                  | 0.657                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 132572 | 1770        | 23.03               | 23.80               | 1.194                  | -0.01            | 0.228                  | 0.272                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 132572 | 1770        | 23.03               | 23.80               | 1.194                  | 0.03             | 0.118                  | 0.141                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 132572 | 1770        | 23.03               | 23.80               | 1.194                  | 0.04             | 0.191                  | 0.228                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 132572 | 1770        | 23.03               | 23.80               | 1.194                  | -0.02            | 0.083                  | 0.099                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 132072 | 1720        | 22.67               | 23.80               | 1.297                  | 0.05             | 0.148                  | 0.192                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 132322 | 1745        | 22.90               | 23.80               | 1.230                  | 0.03             | 0.116                  | 0.143                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Full            | 132572 | 1770        | 22.18               | 22.80               | 1.153                  | -0.06            | 0.198                  | 0.228                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Full            | 132572 | 1770        | 22.18               | 22.80               | 1.153                  | 0.04             | 0.095                  | 0.109                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Full            | 132572 | 1770        | 22.18               | 22.80               | 1.153                  | 0.01             | 0.165                  | 0.190                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Full            | 132572 | 1770        | 22.18               | 22.80               | 1.153                  | 0.02             | 0.077                  | 0.088                  |
|          | LTE Band 66C_LAT | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 132572 | 1770        | 22.75               | 23.80               | 1.274                  | -0.06            | 0.205                  | 0.261                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 26340  | 1880        | 13.03               | 13.50               | 1.114                  | 0.05             | 0.584                  | 0.651                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 26340  | 1880        | 13.03               | 13.50               | 1.114                  | 0.07             | 0.699                  | 0.779                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 26340  | 1880        | 13.03               | 13.50               | 1.114                  | 0.03             | 0.417                  | 0.465                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 26340  | 1880        | 13.03               | 13.50               | 1.114                  | 0.15             | 0.519                  | 0.578                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 26340  | 1880        | 12.97               | 13.50               | 1.130                  | -0.05            | 0.608                  | 0.687                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 26340  | 1880        | 12.97               | 13.50               | 1.130                  | 0.09             | 0.720                  | 0.813                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 26340  | 1880        | 12.97               | 13.50               | 1.130                  | 0.11             | 0.472                  | 0.533                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 26340  | 1880        | 12.97               | 13.50               | 1.130                  | -0.03            | 0.566                  | 0.639                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 26140  | 1860        | 12.96               | 13.50               | 1.132                  | 0.09             | 0.698                  | 0.790                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 26590  | 1905        | 12.95               | 13.50               | 1.135                  | 0.04             | 0.788                  | 0.894                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | Reduced         | 26340  | 1880        | 13.01               | 13.50               | 1.119                  | 0.02             | 0.716                  | 0.802                  |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | Reduced         | 26140  | 1860        | 13.00               | 13.50               | 1.122                  | 0.08             | 0.712                  | 0.799                  |
| 15       | LTE Band 25_UAT  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | Reduced         | 26590  | 1905        | 12.86               | 13.50               | 1.159                  | 0.04             | 0.773                  | 0.896                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 26340  | 1880        | 23.23               | 23.80               | 1.140                  | 0.05             | 0.311                  | 0.355                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 26340  | 1880        | 23.23               | 23.80               | 1.140                  | 0.03             | 0.161                  | 0.184                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 26340  | 1880        | 23.23               | 23.80               | 1.140                  | 0.01             | 0.156                  | 0.178                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 26340  | 1880        | 23.23               | 23.80               | 1.140                  | 0.01             | 0.120                  | 0.137                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 26140  | 1860        | 23.13               | 23.80               | 1.167                  | -0.02            | 0.277                  | 0.323                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 26590  | 1905        | 23.21               | 23.80               | 1.146                  | 0.04             | 0.232                  | 0.266                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Full            | 26340  | 1880        | 22.34               | 22.80               | 1.112                  | -0.06            | 0.242                  | 0.269                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Full            | 26340  | 1880        | 22.34               | 22.80               | 1.112                  | 0.01             | 0.114                  | 0.127                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Full            | 26340  | 1880        | 22.34               | 22.80               | 1.112                  | 0.03             | 0.105                  | 0.117                  |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Full            | 26340  | 1880        | 22.34               | 22.80               | 1.112                  | 0.06             | 0.041                  | 0.046                  |



| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 27710 | 2310        | 13.22               | 13.80               | 1.143                  | 0.03             | 0.665                  | 0.760                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 27710 | 2310        | 13.22               | 13.80               | 1.143                  | -0.05            | 0.757                  | 0.865                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 27710 | 2310        | 13.22               | 13.80               | 1.143                  | 0.07             | 0.548                  | 0.626                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 27710 | 2310        | 13.22               | 13.80               | 1.143                  | 0.12             | 0.580                  | 0.663                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Reduced         | 27710 | 2310        | 13.17               | 13.80               | 1.156                  | 0.06             | 0.670                  | 0.775                  |
| 16       | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Reduced         | 27710 | 2310        | 13.17               | 13.80               | 1.156                  | -0.02            | 0.777                  | 0.898                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Reduced         | 27710 | 2310        | 13.17               | 13.80               | 1.156                  | 0.08             | 0.554                  | 0.640                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Reduced         | 27710 | 2310        | 13.17               | 13.80               | 1.156                  | 0.04             | 0.586                  | 0.677                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | -0.03            | 0.202                  | 0.235                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | 0.01             | 0.090                  | 0.104                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | 0.02             | 0.329                  | 0.382                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | 0.05             | 0.120                  | 0.139                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | -0.07            | 0.161                  | 0.187                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | 0.01             | 0.079                  | 0.091                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | 0.02             | 0.277                  | 0.322                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | 0.05             | 0.100                  | 0.116                  |
| 17       | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 20850 | 2510        | 13.31               | 13.80               | 1.119                  | 0.07             | 0.688                  | 0.770                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Reduced         | 20850 | 2510        | 13.31               | 13.80               | 1.119                  | 0.05             | 0.614                  | 0.687                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Reduced         | 20850 | 2510        | 13.31               | 13.80               | 1.119                  | 0.12             | 0.418                  | 0.468                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Reduced         | 20850 | 2510        | 13.31               | 13.80               | 1.119                  | -0.03            | 0.496                  | 0.555                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 21100 | 2535        | 13.19               | 13.80               | 1.151                  | 0.09             | 0.634                  | 0.730                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 21350 | 2560        | 13.10               | 13.80               | 1.175                  | 0.11             | 0.591                  | 0.694                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 20850 | 2510        | 13.29               | 13.80               | 1.125                  | 0.06             | 0.681                  | 0.766                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 20850 | 2510        | 13.29               | 13.80               | 1.125                  | 0.1              | 0.605                  | 0.680                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 20850 | 2510        | 13.29               | 13.80               | 1.125                  | 0.07             | 0.397                  | 0.446                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 20850 | 2510        | 13.29               | 13.80               | 1.125                  | 0.02             | 0.480                  | 0.540                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | -0.06            | 0.189                  | 0.200                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | 0.01             | 0.184                  | 0.194                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | 0.02             | 0.291                  | 0.308                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | 0.02             | 0.109                  | 0.115                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 21100 | 2535        | 23.46               | 23.80               | 1.081                  | -0.01            | 0.311                  | 0.336                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 21350 | 2560        | 23.37               | 23.80               | 1.104                  | 0.01             | 0.323                  | 0.357                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | 0.05             | 0.177                  | 0.182                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | 0.01             | 0.154                  | 0.159                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | 0.02             | 0.232                  | 0.239                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | 0.03             | 0.102                  | 0.105                  |



## &lt;TDD LTE SAR&gt;

| Plot No. | Band                  | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 17.15               | 17.30               | 1.035                  | 62.9         | 1.006                     | 0.02             | 0.453                  | 0.472                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | Reduced         | 40620 | 2593        | 17.15               | 17.30               | 1.035                  | 62.9         | 1.006                     | -0.07            | 0.430                  | 0.448                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Reduced         | 40620 | 2593        | 17.15               | 17.30               | 1.035                  | 62.9         | 1.006                     | 0.14             | 0.377                  | 0.393                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | Reduced         | 40620 | 2593        | 17.15               | 17.30               | 1.035                  | 62.9         | 1.006                     | 0.09             | 0.386                  | 0.402                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 39790 | 2510        | 16.69               | 17.30               | 1.151                  | 62.9         | 1.006                     | 0.06             | 0.606                  | 0.702                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 39750 | 2506        | 16.61               | 17.30               | 1.172                  | 62.9         | 1.006                     | -0.19            | 0.616                  | 0.726                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 40185 | 2549.5      | 16.89               | 17.30               | 1.099                  | 62.9         | 1.006                     | 0.17             | 0.527                  | 0.583                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 41055 | 2636.5      | 17.13               | 17.30               | 1.040                  | 62.9         | 1.006                     | 0.15             | 0.406                  | 0.425                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 41490 | 2680        | 17.05               | 17.30               | 1.059                  | 62.9         | 1.006                     | 0.11             | 0.391                  | 0.417                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 17.12               | 17.30               | 1.042                  | 62.9         | 1.006                     | 0.16             | 0.461                  | 0.483                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 40620 | 2593        | 17.12               | 17.30               | 1.042                  | 62.9         | 1.006                     | -0.08            | 0.445                  | 0.467                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 40620 | 2593        | 17.12               | 17.30               | 1.042                  | 62.9         | 1.006                     | -0.09            | 0.384                  | 0.403                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 40620 | 2593        | 17.12               | 17.30               | 1.042                  | 62.9         | 1.006                     | 0.15             | 0.398                  | 0.417                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 39790 | 2510        | 16.73               | 17.30               | 1.140                  | 62.9         | 1.006                     | -0.14            | 0.627                  | 0.719                  |
| 18       | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 39750 | 2506        | 16.73               | 17.30               | 1.140                  | 62.9         | 1.006                     | -0.05            | 0.663                  | 0.761                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 40185 | 2549.5      | 17.02               | 17.30               | 1.067                  | 62.9         | 1.006                     | -0.13            | 0.545                  | 0.585                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 41055 | 2636.5      | 17.11               | 17.30               | 1.045                  | 62.9         | 1.006                     | -0.17            | 0.412                  | 0.433                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 41490 | 2680        | 17.10               | 17.30               | 1.047                  | 62.9         | 1.006                     | 0.04             | 0.398                  | 0.419                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 17.11               | 17.30               | 1.045                  | 62.9         | 1.006                     | 0.16             | 0.464                  | 0.488                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 39790 | 2510        | 16.72               | 17.30               | 1.143                  | 62.9         | 1.006                     | 0.05             | 0.606                  | 0.697                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 39750 | 2506        | 16.76               | 17.30               | 1.132                  | 62.9         | 1.006                     | -0.06            | 0.612                  | 0.697                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 40185 | 2549.5      | 16.91               | 17.30               | 1.094                  | 62.9         | 1.006                     | -0.09            | 0.526                  | 0.579                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 41055 | 2636.5      | 17.10               | 17.30               | 1.047                  | 62.9         | 1.006                     | -0.13            | 0.387                  | 0.408                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | Reduced         | 41490 | 2680        | 17.09               | 17.30               | 1.050                  | 62.9         | 1.006                     | -0.15            | 0.363                  | 0.383                  |
|          | LTE Band 41C_UAT      | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 17.29               | 17.30               | 1.002                  | 62.9         | 1.006                     | -0.04            | 0.701                  | 0.707                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | -0.01            | 0.119                  | 0.125                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | 0.01             | 0.093                  | 0.098                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | 0.02             | 0.209                  | 0.220                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | 0.01             | 0.044                  | 0.046                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 39790 | 2510        | 23.55               | 23.80               | 1.059                  | 62.9         | 1.006                     | 0.01             | 0.153                  | 0.163                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 39750 | 2506        | 23.58               | 23.80               | 1.052                  | 62.9         | 1.006                     | 0.03             | 0.154                  | 0.163                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 40185 | 2549.5      | 23.57               | 23.80               | 1.054                  | 62.9         | 1.006                     | 0.03             | 0.178                  | 0.189                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 41055 | 2636.5      | 23.45               | 23.80               | 1.084                  | 62.9         | 1.006                     | 0.04             | 0.200                  | 0.218                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Full            | 41490 | 2680        | 23.30               | 23.80               | 1.122                  | 62.9         | 1.006                     | 0.02             | 0.272                  | 0.307                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | 0.02             | 0.099                  | 0.103                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | 0.02             | 0.076                  | 0.079                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | 0.02             | 0.161                  | 0.168                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | 0.02             | 0.036                  | 0.037                  |
|          | LTE Band 41C_LAT      | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | Full            | 41490 | 2680        | 23.79               | 23.80               | 1.002                  | 62.9         | 1.006                     | 0.01             | 0.278                  | 0.280                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 18.16               | 18.30               | 1.033                  | 42.9         | 1.009                     | -0.08            | 0.392                  | 0.408                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | Reduced         | 40620 | 2593        | 18.16               | 18.30               | 1.033                  | 42.9         | 1.009                     | 0.09             | 0.367                  | 0.382                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | Reduced         | 40620 | 2593        | 18.16               | 18.30               | 1.033                  | 42.9         | 1.009                     | 0.16             | 0.314                  | 0.327                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | Reduced         | 40620 | 2593        | 18.16               | 18.30               | 1.033                  | 42.9         | 1.009                     | -0.08            | 0.315                  | 0.328                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 39750 | 2506        | 17.51               | 18.30               | 1.199                  | 42.9         | 1.009                     | 0.01             | 0.590                  | 0.714                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 40185 | 2549.5      | 17.86               | 18.30               | 1.107                  | 42.9         | 1.009                     | -0.14            | 0.420                  | 0.469                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 41055 | 2636.5      | 18.05               | 18.30               | 1.059                  | 42.9         | 1.009                     | -0.05            | 0.318                  | 0.340                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | Reduced         | 41490 | 2680        | 17.98               | 18.30               | 1.076                  | 42.9         | 1.009                     | -0.13            | 0.310                  | 0.337                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Right Cheek   | 0mm      | Reduced         | 40620 | 2593        | 18.09               | 18.30               | 1.050                  | 42.9         | 1.009                     | -0.15            | 0.400                  | 0.424                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 40620 | 2593        | 18.09               | 18.30               | 1.050                  | 42.9         | 1.009                     | -0.06            | 0.387                  | 0.410                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Left Cheek    | 0mm      | Reduced         | 40620 | 2593        | 18.09               | 18.30               | 1.050                  | 42.9         | 1.009                     | -0.12            | 0.318                  | 0.337                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Left Tilted   | 0mm      | Reduced         | 40620 | 2593        | 18.09               | 18.30               | 1.050                  | 42.9         | 1.009                     | -0.05            | 0.324                  | 0.343                  |



# FCC SAR TEST REPORT

Report No. : FA9N2025-02

|    |                        |     |      |     |    |              |     |         |       |        |       |       |       |      |       |       |       |       |
|----|------------------------|-----|------|-----|----|--------------|-----|---------|-------|--------|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Reduced | 39750 | 2506   | 17.73 | 18.30 | 1.140 | 42.9 | 1.009 | -0.07 | 0.518 | 0.596 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Reduced | 40185 | 2549.5 | 17.97 | 18.30 | 1.079 | 42.9 | 1.009 | -0.04 | 0.435 | 0.474 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Reduced | 41055 | 2636.5 | 18.06 | 18.30 | 1.057 | 42.9 | 1.009 | -0.17 | 0.330 | 0.352 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Reduced | 41490 | 2680   | 18.05 | 18.30 | 1.059 | 42.9 | 1.009 | 0.06  | 0.317 | 0.339 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | Reduced | 40620 | 2593   | 18.08 | 18.30 | 1.052 | 42.9 | 1.009 | -0.19 | 0.392 | 0.416 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | Reduced | 39750 | 2506   | 17.82 | 18.30 | 1.117 | 42.9 | 1.009 | 0.15  | 0.416 | 0.469 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | Reduced | 40185 | 2549.5 | 17.91 | 18.30 | 1.094 | 42.9 | 1.009 | 0.11  | 0.441 | 0.487 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | Reduced | 41055 | 2636.5 | 18.05 | 18.30 | 1.059 | 42.9 | 1.009 | -0.04 | 0.324 | 0.346 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | Reduced | 41490 | 2680   | 18.05 | 18.30 | 1.059 | 42.9 | 1.009 | -0.12 | 0.303 | 0.324 |
|    | LTE Band 41C(HPUE)_UAT | 20M | QPSK | 1   | 0  | Right Cheek  | 0mm | Reduced | 40620 | 2593   | 18.09 | 18.30 | 1.050 | 42.9 | 1.009 | 0.06  | 0.658 | 0.697 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Right Cheek  | 0mm | Full    | 40620 | 2593   | 25.72 | 26.30 | 1.143 | 42.9 | 1.009 | 0.04  | 0.134 | 0.155 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Right Tilted | 0mm | Full    | 40620 | 2593   | 25.72 | 26.30 | 1.143 | 42.9 | 1.009 | 0.01  | 0.100 | 0.115 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Full    | 40620 | 2593   | 25.72 | 26.30 | 1.143 | 42.9 | 1.009 | 0.04  | 0.211 | 0.243 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Tilted  | 0mm | Full    | 40620 | 2593   | 25.72 | 26.30 | 1.143 | 42.9 | 1.009 | 0.03  | 0.066 | 0.076 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Full    | 39750 | 2506   | 25.65 | 26.30 | 1.161 | 42.9 | 1.009 | 0.01  | 0.171 | 0.200 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Full    | 40185 | 2549.5 | 25.59 | 26.30 | 1.178 | 42.9 | 1.009 | 0.01  | 0.196 | 0.233 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Full    | 41055 | 2636.5 | 25.66 | 26.30 | 1.159 | 42.9 | 1.009 | -0.05 | 0.205 | 0.240 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Full    | 41490 | 2680   | 25.56 | 26.30 | 1.186 | 42.9 | 1.009 | 0.01  | 0.217 | 0.260 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Full    | 40620 | 2593   | 24.89 | 25.30 | 1.099 | 42.9 | 1.009 | 0.01  | 0.122 | 0.135 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Full    | 40620 | 2593   | 24.89 | 25.30 | 1.099 | 42.9 | 1.009 | 0.03  | 0.081 | 0.089 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Left Cheek   | 0mm | Full    | 40620 | 2593   | 24.89 | 25.30 | 1.099 | 42.9 | 1.009 | 0.01  | 0.196 | 0.217 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Left Tilted  | 0mm | Full    | 40620 | 2593   | 24.89 | 25.30 | 1.099 | 42.9 | 1.009 | 0.04  | 0.051 | 0.057 |
|    | LTE Band 41C(HPUE)_LAT | 20M | QPSK | 1   | 0  | Left Cheek   | 0mm | Full    | 41055 | 2636.5 | 24.96 | 26.30 | 1.361 | 42.9 | 1.009 | -0.04 | 0.165 | 0.227 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Right Cheek  | 0mm | Reduced | 55830 | 3609   | 14.09 | 14.30 | 1.050 | 62.9 | 1.006 | -0.06 | 0.483 | 0.510 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Right Tilted | 0mm | Reduced | 55830 | 3609   | 14.09 | 14.30 | 1.050 | 62.9 | 1.006 | 0.06  | 0.558 | 0.589 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Left Cheek   | 0mm | Reduced | 55830 | 3609   | 14.09 | 14.30 | 1.050 | 62.9 | 1.006 | -0.15 | 0.272 | 0.287 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Left Tilted  | 0mm | Reduced | 55830 | 3609   | 14.09 | 14.30 | 1.050 | 62.9 | 1.006 | 0.01  | 0.313 | 0.330 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Cheek  | 0mm | Reduced | 55830 | 3609   | 14.05 | 14.30 | 1.059 | 62.9 | 1.006 | -0.06 | 0.490 | 0.522 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Reduced | 55830 | 3609   | 14.05 | 14.30 | 1.059 | 62.9 | 1.006 | -0.03 | 0.595 | 0.634 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Left Cheek   | 0mm | Reduced | 55830 | 3609   | 14.05 | 14.30 | 1.059 | 62.9 | 1.006 | 0.03  | 0.283 | 0.302 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Left Tilted  | 0mm | Reduced | 55830 | 3609   | 14.05 | 14.30 | 1.059 | 62.9 | 1.006 | 0.06  | 0.322 | 0.343 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Reduced | 55340 | 3560   | 13.52 | 14.30 | 1.197 | 62.9 | 1.006 | -0.19 | 0.579 | 0.697 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Reduced | 56150 | 3641   | 13.95 | 14.30 | 1.084 | 62.9 | 1.006 | 0.11  | 0.665 | 0.725 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Reduced | 56640 | 3690   | 14.00 | 14.30 | 1.072 | 62.9 | 1.006 | 0.06  | 0.718 | 0.774 |
| 19 | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Tilted | 0mm | Reduced | 56640 | 3690   | 14.00 | 14.30 | 1.072 | 62.9 | 1.006 | 0.1   | 0.846 | 0.912 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Right Tilted | 0mm | Reduced | 55830 | 3609   | 14.06 | 14.30 | 1.057 | 62.9 | 1.006 | -0.19 | 0.606 | 0.644 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Right Tilted | 0mm | Reduced | 55340 | 3560   | 13.48 | 14.30 | 1.208 | 62.9 | 1.006 | 0.17  | 0.566 | 0.688 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Right Tilted | 0mm | Reduced | 56150 | 3641   | 13.85 | 14.30 | 1.109 | 62.9 | 1.006 | 0.15  | 0.657 | 0.733 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Right Tilted | 0mm | Reduced | 56640 | 3690   | 13.78 | 14.30 | 1.127 | 62.9 | 1.006 | 0.11  | 0.686 | 0.778 |
|    | LTE Band 48C_UAT       | 20M | QPSK | 1   | 0  | Right Tilted | 0mm | Reduced | 56150 | 3641   | 13.96 | 14.30 | 1.081 | 62.9 | 1.006 | 0.03  | 0.726 | 0.790 |



## &lt;5G NR NSA SAR&gt;

| Plot No. | Band   | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Right Cheek   | 0mm      | Reduced         | 376000 | 1880        | 14.05               | 15.00               | 1.245                  | 0.06             | 0.435                  | 0.541                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Right Cheek   | 0mm      | Reduced         | 376000 | 1880        | 14.03               | 15.00               | 1.250                  | 0.17             | 0.431                  | 0.539                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Right Tilted  | 0mm      | Reduced         | 376000 | 1880        | 14.05               | 15.00               | 1.245                  | 0                | 0.573                  | 0.713                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Right Tilted  | 0mm      | Reduced         | 372000 | 1860        | 13.70               | 15.00               | 1.349                  | 0.03             | 0.478                  | 0.645                  |
| 20       | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Right Tilted  | 0mm      | Reduced         | 380000 | 1900        | 14.03               | 15.00               | 1.250                  | -0.15            | 0.576                  | 0.720                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Right Tilted  | 0mm      | Reduced         | 376000 | 1880        | 14.03               | 15.00               | 1.250                  | -0.06            | 0.569                  | 0.711                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 100     | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 376000 | 1880        | 13.98               | 15.00               | 1.265                  | 0.17             | 0.569                  | 0.720                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Left Cheek    | 0mm      | Reduced         | 376000 | 1880        | 14.05               | 15.00               | 1.245                  | -0.14            | 0.293                  | 0.365                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | Reduced         | 376000 | 1880        | 14.03               | 15.00               | 1.250                  | 0.04             | 0.286                  | 0.358                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 53        | DFT-15 | Left Tilted   | 0mm      | Reduced         | 376000 | 1880        | 14.05               | 15.00               | 1.245                  | -0.12            | 0.394                  | 0.490                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Left Tilted   | 0mm      | Reduced         | 376000 | 1880        | 14.03               | 15.00               | 1.250                  | 0.05             | 0.398                  | 0.498                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | -0.03            | 0.166                  | 0.204                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | -0.07            | 0.175                  | 0.216                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 372000 | 1860        | 22.47               | 23.80               | 1.358                  | -0.06            | 0.142                  | 0.193                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 376000 | 1880        | 22.83               | 23.80               | 1.250                  | 0.05             | 0.156                  | 0.195                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | -0.05            | 0.088                  | 0.108                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | -0.06            | 0.103                  | 0.128                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | 0.07             | 0.115                  | 0.140                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | -0.05            | 0.097                  | 0.120                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | 0.11             | 0.086                  | 0.105                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | 0.15             | 0.084                  | 0.104                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 166800 | 834         | 19.10               | 20.00               | 1.230                  | -0.02            | 0.205                  | 0.253                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 166800 | 834         | 19.05               | 20.00               | 1.245                  | 0.06             | 0.175                  | 0.218                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 166800 | 834         | 19.10               | 20.00               | 1.230                  | -0.09            | 0.075                  | 0.092                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 166800 | 834         | 19.05               | 20.00               | 1.245                  | 0.03             | 0.045                  | 0.056                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 166800 | 834         | 19.10               | 20.00               | 1.230                  | -0.13            | 0.231                  | 0.284                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 166800 | 834         | 19.05               | 20.00               | 1.245                  | -0.04            | 0.246                  | 0.306                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 167300 | 836.5       | 19.01               | 20.00               | 1.256                  | -0.1             | 0.256                  | 0.321                  |
| 21       | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 167800 | 839         | 19.01               | 20.00               | 1.256                  | -0.15            | 0.286                  | 0.359                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 166800 | 834         | 19.10               | 20.00               | 1.230                  | 0.09             | 0.020                  | 0.025                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 166800 | 834         | 19.05               | 20.00               | 1.245                  | 0.14             | 0.030                  | 0.037                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | 0.05             | 0.097                  | 0.108                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.04            | 0.098                  | 0.111                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | 0.01             | 0.062                  | 0.069                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.07            | 0.062                  | 0.070                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | -0.1             | 0.132                  | 0.147                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.17            | 0.139                  | 0.157                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 167300 | 836.5       | 23.21               | 23.80               | 1.146                  | -0.1             | 0.136                  | 0.156                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 167800 | 839         | 23.16               | 23.80               | 1.159                  | -0.13            | 0.135                  | 0.156                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | -0.09            | 0.061                  | 0.068                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.1             | 0.059                  | 0.067                  |



| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | Reduced         | 528000 | 2640        | 15.39               | 16.50               | 1.291                  | -0.06            | 0.423                  | 0.546                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | Reduced         | 528000 | 2640        | 15.20               | 16.50               | 1.349                  | -0.01            | 0.510                  | 0.688                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | Reduced         | 509200 | 2546        | 14.68               | 16.50               | 1.521                  | -0.03            | 0.248                  | 0.377                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | Reduced         | 518600 | 2593        | 15.13               | 16.50               | 1.371                  | -0.11            | 0.361                  | 0.495                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 270     | 0         | DFT-30 | Right Cheek   | 0mm      | Reduced         | 528000 | 2640        | 15.10               | 16.50               | 1.380                  | -0.15            | 0.503                  | 0.694                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | Reduced         | 528000 | 2640        | 15.39               | 16.50               | 1.291                  | -0.07            | 0.428                  | 0.553                  |
| 22       | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | Reduced         | 528000 | 2640        | 15.20               | 16.50               | 1.349                  | -0.19            | 0.556                  | 0.750                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | Reduced         | 509200 | 2546        | 14.68               | 16.50               | 1.521                  | -0.18            | 0.272                  | 0.414                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | Reduced         | 518600 | 2593        | 15.13               | 16.50               | 1.371                  | -0.12            | 0.393                  | 0.539                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 270     | 0         | DFT-30 | Right Tilted  | 0mm      | Reduced         | 528000 | 2640        | 15.10               | 16.50               | 1.380                  | -0.03            | 0.535                  | 0.739                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | Reduced         | 528000 | 2640        | 15.39               | 16.50               | 1.291                  | -0.03            | 0.262                  | 0.338                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Left Cheek    | 0mm      | Reduced         | 528000 | 2640        | 15.20               | 16.50               | 1.349                  | 0                | 0.304                  | 0.410                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | Reduced         | 528000 | 2640        | 15.39               | 16.50               | 1.291                  | 0.15             | 0.306                  | 0.395                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 69        | DFT-30 | Left Tilted   | 0mm      | Reduced         | 528000 | 2640        | 15.20               | 16.50               | 1.349                  | -0.01            | 0.384                  | 0.518                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | 0.09             | 0.115                  | 0.126                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Right Cheek   | 0mm      | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | 0.05             | 0.124                  | 0.135                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | 0.13             | 0.162                  | 0.177                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Right Tilted  | 0mm      | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | 0.03             | 0.156                  | 0.171                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | 0.17             | 0.228                  | 0.249                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Left Cheek    | 0mm      | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | 0.01             | 0.226                  | 0.247                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | 0.12             | 0.130                  | 0.141                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Left Tilted   | 0mm      | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | 0.04             | 0.089                  | 0.097                  |



| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 344000 | 1720        | 13.81               | 14.50               | 1.172                  | -0.13            | 0.379                  | 0.444                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 344000 | 1720        | 13.60               | 14.50               | 1.230                  | -0.15            | 0.346                  | 0.426                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 344000 | 1720        | 13.81               | 14.50               | 1.172                  | 0.01             | 0.361                  | 0.423                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 344000 | 1720        | 13.60               | 14.50               | 1.230                  | -0.1             | 0.374                  | 0.460                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 349000 | 1745        | 13.37               | 14.50               | 1.297                  | -0.16            | 0.477                  | 0.618                  |
| 23       | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 354000 | 1770        | 13.59               | 14.50               | 1.233                  | -0.09            | 0.533                  | 0.657                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 100     | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 344000 | 1720        | 13.31               | 14.50               | 1.315                  | -0.15            | 0.357                  | 0.470                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 344000 | 1720        | 13.81               | 14.50               | 1.172                  | -0.16            | 0.265                  | 0.310                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 344000 | 1720        | 13.60               | 14.50               | 1.230                  | -0.13            | 0.250                  | 0.308                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 344000 | 1720        | 13.81               | 14.50               | 1.172                  | -0.04            | 0.286                  | 0.335                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 344000 | 1720        | 13.60               | 14.50               | 1.230                  | -0.09            | 0.269                  | 0.331                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | -0.1             | 0.119                  | 0.134                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.17            | 0.109                  | 0.124                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | -0.1             | 0.113                  | 0.127                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.12            | 0.105                  | 0.119                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | -0.06            | 0.170                  | 0.192                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 344000 | 1720        | 23.25               | 23.80               | 1.135                  | -0.05            | 0.162                  | 0.184                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 354000 | 1770        | 23.13               | 23.80               | 1.167                  | 0.17             | 0.182                  | 0.213                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.13            | 0.164                  | 0.186                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | 0.07             | 0.105                  | 0.119                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.05            | 0.095                  | 0.108                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 134600 | 673         | 18.38               | 19.00               | 1.153                  | -0.08            | 0.187                  | 0.216                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Reduced         | 134600 | 673         | 18.36               | 19.00               | 1.159                  | -0.03            | 0.159                  | 0.185                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 134600 | 673         | 18.38               | 19.00               | 1.153                  | -0.04            | 0.036                  | 0.041                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Reduced         | 134600 | 673         | 18.36               | 19.00               | 1.159                  | 0.07             | 0.040                  | 0.046                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 134600 | 673         | 18.38               | 19.00               | 1.153                  | -0.06            | 0.171                  | 0.197                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 134600 | 673         | 18.36               | 19.00               | 1.159                  | -0.15            | 0.215                  | 0.249                  |
| 24       | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 136100 | 680.5       | 18.16               | 19.00               | 1.213                  | 0.05             | 0.231                  | 0.280                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Reduced         | 137600 | 688         | 18.12               | 19.00               | 1.225                  | -0.13            | 0.203                  | 0.249                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 134600 | 673         | 18.38               | 19.00               | 1.153                  | 0.19             | 0.020                  | 0.023                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Reduced         | 134600 | 673         | 18.36               | 19.00               | 1.159                  | 0.12             | 0.036                  | 0.042                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.05            | 0.094                  | 0.107                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Cheek   | 0mm      | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | -0.09            | 0.089                  | 0.102                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.1             | 0.045                  | 0.052                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Tilted  | 0mm      | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | -0.03            | 0.045                  | 0.052                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.04            | 0.109                  | 0.124                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 134600 | 673         | 23.09               | 23.80               | 1.178                  | -0.05            | 0.123                  | 0.144                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | Full            | 137600 | 688         | 23.13               | 23.80               | 1.167                  | -0.02            | 0.107                  | 0.125                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Cheek    | 0mm      | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | -0.08            | 0.103                  | 0.117                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.07            | 0.044                  | 0.050                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Tilted   | 0mm      | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | 0.04             | 0.042                  | 0.048                  |

**<WLAN SAR>**

| Plot No. | Band       | Mode              | Test Position | Gap (mm) | output power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | 1                  | 11  | 2462        | 14.91               | 16.91               | 1.585                  | 100          | 1.000                     | 0.06             | 0.145                  | 0.230                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | 1                  | 11  | 2462        | 14.91               | 16.91               | 1.585                  | 100          | 1.000                     | -0.15            | 0.093                  | 0.147                  |
| 25       | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 1                  | 11  | 2462        | 14.91               | 16.91               | 1.585                  | 100          | 1.000                     | -0.01            | 0.645                  | 1.022                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | 1                  | 11  | 2462        | 14.91               | 16.91               | 1.585                  | 100          | 1.000                     | -0.03            | 0.283                  | 0.449                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 1                  | 1   | 2412        | 14.71               | 16.71               | 1.585                  | 100          | 1.000                     | -0.04            | 0.535                  | 0.848                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 1                  | 6   | 2437        | 14.66               | 16.66               | 1.585                  | 100          | 1.000                     | -0.17            | 0.460                  | 0.729                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | 2                  | 11  | 2462        | 11.94               | 13.94               | 1.585                  | 100          | 1.000                     | 0.06             | 0.086                  | 0.136                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | 2                  | 11  | 2462        | 11.94               | 13.94               | 1.585                  | 100          | 1.000                     | 0.02             | 0.082                  | 0.130                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 2                  | 11  | 2462        | 11.94               | 13.94               | 1.585                  | 100          | 1.000                     | -0.03            | 0.308                  | 0.488                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | 2                  | 11  | 2462        | 11.94               | 13.94               | 1.585                  | 100          | 1.000                     | 0.11             | 0.265                  | 0.420                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 2                  | 1   | 2412        | 11.76               | 13.76               | 1.585                  | 100          | 1.000                     | 0.15             | 0.276                  | 0.437                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 2                  | 6   | 2437        | 11.62               | 13.62               | 1.585                  | 100          | 1.000                     | -0.11            | 0.262                  | 0.415                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | 3                  | 11  | 2462        | 9.96                | 11.96               | 1.585                  | 100          | 1.000                     | 0.11             | 0.055                  | 0.087                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | 3                  | 11  | 2462        | 9.96                | 11.96               | 1.585                  | 100          | 1.000                     | -0.16            | 0.052                  | 0.083                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 3                  | 11  | 2462        | 9.96                | 11.96               | 1.585                  | 100          | 1.000                     | -0.12            | 0.195                  | 0.309                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | 3                  | 11  | 2462        | 9.96                | 11.96               | 1.585                  | 100          | 1.000                     | -0.02            | 0.168                  | 0.266                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 3                  | 1   | 2412        | 9.71                | 11.71               | 1.585                  | 100          | 1.000                     | 0.05             | 0.172                  | 0.273                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | 3                  | 6   | 2437        | 9.66                | 11.66               | 1.585                  | 100          | 1.000                     | -0.16            | 0.167                  | 0.265                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | 1/2                | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.145                  | 0.234                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | 1/2                | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.167                  | 0.270                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2                | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | 0.15             | 0.199                  | 0.322                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 1/2                | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | -0.13            | 0.343                  | 0.554                  |
| 26       | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 1/2                | 62  | 5310        | 19.80               | 21.80               | 1.585                  | 98.08        | 1.020                     | 0.15             | 0.347                  | 0.561                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | 3                  | 54  | 5270        | 17.92               | 19.92               | 1.585                  | 98.08        | 1.020                     | -0.06            | 0.086                  | 0.140                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | 3                  | 54  | 5270        | 17.92               | 19.92               | 1.585                  | 98.08        | 1.020                     | -0.09            | 0.115                  | 0.186                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 3                  | 54  | 5270        | 17.92               | 19.92               | 1.585                  | 98.08        | 1.020                     | -0.13            | 0.160                  | 0.259                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 3                  | 54  | 5270        | 17.92               | 19.92               | 1.585                  | 98.08        | 1.020                     | -0.15            | 0.200                  | 0.323                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 3                  | 62  | 5310        | 17.80               | 19.80               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.173                  | 0.280                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | 1/2/3              | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | -0.13            | 0.047                  | 0.077                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | 1/2/3              | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | -0.06            | 0.053                  | 0.086                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | -0.04            | 0.064                  | 0.104                  |
| 27       | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 1/2/3              | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | 0                | 0.099                  | 0.161                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 102 | 5510        | 17.40               | 19.40               | 1.585                  | 98.08        | 1.020                     | -0.14            | 0.088                  | 0.142                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 126 | 5630        | 17.22               | 19.22               | 1.585                  | 98.08        | 1.020                     | -0.04            | 0.094                  | 0.153                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 134 | 5670        | 17.01               | 19.01               | 1.585                  | 98.08        | 1.020                     | -0.08            | 0.095                  | 0.153                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 142 | 5710        | 16.83               | 18.83               | 1.585                  | 98.08        | 1.020                     | -0.17            | 0.070                  | 0.112                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | 1/2/3              | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0.18             | 0.024                  | 0.039                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | 1/2/3              | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | -0.18            | 0.028                  | 0.045                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0.07             | 0.052                  | 0.083                  |
| 28       | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | 1/2/3              | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0                | 0.062                  | 0.100                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | 1/2/3              | 159 | 5795        | 17.23               | 19.23               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.056                  | 0.090                  |

**<Bluetooth SAR>**

| Plot No. | Band      | Mode      | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-----------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Chain 0 | Full            | 39  | 2441        | 8.61                | 10.61               | 1.585                  | 0.06             | 0.021                  | 0.033                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Chain 0 | Full            | 39  | 2441        | 8.61                | 10.61               | 1.585                  | 0.02             | 0.013                  | 0.021                  |
| 29       | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 0 | Full            | 39  | 2441        | 8.61                | 10.61               | 1.585                  | 0.01             | 0.174                  | 0.276                  |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Chain 0 | Full            | 39  | 2441        | 8.61                | 10.61               | 1.585                  | -0.03            | 0.045                  | 0.071                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 0 | Full            | 0   | 2402        | 7.66                | 9.66                | 1.585                  | 0.05             | 0.122                  | 0.193                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 0 | Full            | 78  | 2480        | 6.92                | 8.92                | 1.585                  | 0.01             | 0.094                  | 0.149                  |
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | 0.01             | 0.040                  | 0.063                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.18            | 0.037                  | 0.059                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.11            | 0.140                  | 0.222                  |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.05            | 0.121                  | 0.192                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 1 | Full            | 0   | 2402        | 7.72                | 9.72                | 1.585                  | 0.06             | 0.124                  | 0.197                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Chain 1 | Full            | 78  | 2480        | 6.84                | 8.84                | 1.585                  | 0.04             | 0.120                  | 0.190                  |

## 17.2 Hotspot SAR

### <GSM SAR>

| Plot No. | Band        | Mode             | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_UAT  | GPRS(3 Tx slots) | Front         | 10mm     | Reduced         | 128 | 824.2       | 27.71               | 28.80               | 1.285                  | -0.15            | 0.336                  | 0.432                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Back          | 10mm     | Reduced         | 128 | 824.2       | 27.71               | 28.80               | 1.285                  | -0.07            | 0.388                  | 0.499                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Left Side     | 10mm     | Reduced         | 128 | 824.2       | 27.71               | 28.80               | 1.285                  | -0.04            | 0.576                  | 0.740                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Right Side    | 10mm     | Reduced         | 128 | 824.2       | 27.71               | 28.80               | 1.285                  | -0.03            | 0.012                  | 0.015                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Top Side      | 10mm     | Reduced         | 128 | 824.2       | 27.71               | 28.80               | 1.285                  | -0.01            | 0.013                  | 0.017                  |
| 30       | GSM850_UAT  | GPRS(3 Tx slots) | Left Side     | 10mm     | Reduced         | 189 | 836.4       | 27.62               | 28.80               | 1.312                  | 0.11             | 0.649                  | 0.852                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Left Side     | 10mm     | Reduced         | 251 | 848.8       | 27.27               | 28.80               | 1.422                  | 0.01             | 0.559                  | 0.795                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Front         | 10mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.1              | 0.241                  | 0.312                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 10mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.17             | 0.326                  | 0.422                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Left Side     | 10mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.06             | 0.017                  | 0.022                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Right Side    | 10mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | -0.07            | 0.073                  | 0.094                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Bottom Side   | 10mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | -0.02            | 0.182                  | 0.236                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 10mm     | Full            | 189 | 836.4       | 28.62               | 29.80               | 1.312                  | -0.08            | 0.292                  | 0.383                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 10mm     | Full            | 251 | 848.8       | 28.54               | 29.80               | 1.337                  | -0.06            | 0.285                  | 0.381                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Front         | 10mm     | Reduced         | 661 | 1880        | 20.21               | 20.70               | 1.119                  | -0.14            | 0.219                  | 0.245                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Back          | 10mm     | Reduced         | 661 | 1880        | 20.21               | 20.70               | 1.119                  | 0.08             | 0.206                  | 0.231                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Left Side     | 10mm     | Reduced         | 661 | 1880        | 20.21               | 20.70               | 1.119                  | 0.18             | 0.001                  | 0.001                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Right Side    | 10mm     | Reduced         | 661 | 1880        | 20.21               | 20.70               | 1.119                  | -0.13            | 0.001                  | 0.001                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Top Side      | 10mm     | Reduced         | 661 | 1880        | 20.21               | 20.70               | 1.119                  | -0.17            | 0.312                  | 0.349                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Top Side      | 10mm     | Reduced         | 512 | 1850.2      | 20.07               | 20.70               | 1.156                  | 0.01             | 0.332                  | 0.384                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Top Side      | 10mm     | Reduced         | 810 | 1909.8      | 20.00               | 20.70               | 1.175                  | 0.17             | 0.386                  | 0.454                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Front         | 10mm     | Reduced         | 661 | 1880        | 24.88               | 25.50               | 1.153                  | -0.13            | 0.337                  | 0.389                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Back          | 10mm     | Reduced         | 661 | 1880        | 24.88               | 25.50               | 1.153                  | -0.02            | 0.396                  | 0.457                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Left Side     | 10mm     | Reduced         | 661 | 1880        | 24.88               | 25.50               | 1.153                  | 0.08             | 0.071                  | 0.082                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Right Side    | 10mm     | Reduced         | 661 | 1880        | 24.88               | 25.50               | 1.153                  | 0.09             | 0.084                  | 0.097                  |
| 31       | GSM1900_LAT | GPRS(3 Tx slots) | Bottom Side   | 10mm     | Reduced         | 661 | 1880        | 24.88               | 25.50               | 1.153                  | 0.06             | 0.554                  | 0.639                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Bottom Side   | 10mm     | Reduced         | 512 | 1850.2      | 24.74               | 25.50               | 1.191                  | -0.07            | 0.446                  | 0.531                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Bottom Side   | 10mm     | Reduced         | 810 | 1909.8      | 24.87               | 25.50               | 1.156                  | -0.09            | 0.538                  | 0.622                  |

**<WCDMA SAR>**

| Plot No. | Band         | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA V_UAT  | RMC 12.2Kbps | Front         | 10mm     | Reduced         | 4182 | 836.4       | 22.89               | 23.80               | 1.233                  | -0.1             | 0.390                  | 0.481                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Back          | 10mm     | Reduced         | 4182 | 836.4       | 22.89               | 23.80               | 1.233                  | 0.09             | 0.471                  | 0.581                  |
| 32       | WCDMA V_UAT  | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 4182 | 836.4       | 22.89               | 23.80               | 1.233                  | 0.11             | 0.699                  | 0.862                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Right Side    | 10mm     | Reduced         | 4182 | 836.4       | 22.89               | 23.80               | 1.233                  | 0.13             | 0.018                  | 0.022                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 4182 | 836.4       | 22.89               | 23.80               | 1.233                  | -0.07            | 0.013                  | 0.016                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 4132 | 826.4       | 22.87               | 23.80               | 1.239                  | 0.08             | 0.677                  | 0.839                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 4233 | 846.6       | 22.82               | 23.80               | 1.253                  | 0.14             | 0.664                  | 0.832                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Front         | 10mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.07            | 0.284                  | 0.332                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 10mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.01            | 0.413                  | 0.483                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Left Side     | 10mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | 0.16             | 0.203                  | 0.237                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Right Side    | 10mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.15            | 0.219                  | 0.256                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Bottom Side   | 10mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | 0.09             | 0.229                  | 0.268                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 10mm     | Full            | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | -0.06            | 0.432                  | 0.509                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 10mm     | Full            | 4233 | 846.6       | 24.10               | 24.80               | 1.175                  | 0                | 0.391                  | 0.459                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Front         | 10mm     | Reduced         | 1413 | 1732.6      | 20.53               | 21.50               | 1.250                  | -0.11            | 0.429                  | 0.536                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Back          | 10mm     | Reduced         | 1413 | 1732.6      | 20.53               | 21.50               | 1.250                  | 0.02             | 0.488                  | 0.610                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 1413 | 1732.6      | 20.53               | 21.50               | 1.250                  | 0.08             | 0.166                  | 0.208                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Right Side    | 10mm     | Reduced         | 1413 | 1732.6      | 20.53               | 21.50               | 1.250                  | -0.06            | 0.001                  | 0.001                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 1413 | 1732.6      | 20.53               | 21.50               | 1.250                  | -0.02            | 0.625                  | 0.781                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 1312 | 1712.4      | 20.41               | 21.50               | 1.285                  | -0.11            | 0.548                  | 0.704                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 1513 | 1752.6      | 20.50               | 21.50               | 1.259                  | -0.08            | 0.654                  | 0.823                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Front         | 10mm     | Reduced         | 1413 | 1732.6      | 21.15               | 21.80               | 1.161                  | -0.11            | 0.497                  | 0.577                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 10mm     | Reduced         | 1413 | 1732.6      | 21.15               | 21.80               | 1.161                  | 0.07             | 0.562                  | 0.653                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 1413 | 1732.6      | 21.15               | 21.80               | 1.161                  | -0.01            | 0.161                  | 0.187                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Right Side    | 10mm     | Reduced         | 1413 | 1732.6      | 21.15               | 21.80               | 1.161                  | -0.02            | 0.101                  | 0.117                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 1413 | 1732.6      | 21.15               | 21.80               | 1.161                  | -0.18            | 0.702                  | 0.815                  |
| 33       | WCDMA IV_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 1312 | 1712.4      | 21.01               | 21.80               | 1.199                  | 0.09             | 0.734                  | 0.880                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 1513 | 1752.6      | 21.13               | 21.80               | 1.167                  | -0.15            | 0.682                  | 0.796                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Front         | 10mm     | Reduced         | 9400 | 1880        | 20.87               | 21.50               | 1.156                  | 0.11             | 0.358                  | 0.414                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Back          | 10mm     | Reduced         | 9400 | 1880        | 20.87               | 21.50               | 1.156                  | 0.1              | 0.493                  | 0.570                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 9400 | 1880        | 20.87               | 21.50               | 1.156                  | 0.1              | 0.110                  | 0.127                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Right Side    | 10mm     | Reduced         | 9400 | 1880        | 20.87               | 21.50               | 1.156                  | 0.09             | 0.064                  | 0.074                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 9400 | 1880        | 20.87               | 21.50               | 1.156                  | 0.01             | 0.683                  | 0.790                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 9262 | 1852.4      | 20.74               | 21.50               | 1.191                  | 0.11             | 0.690                  | 0.822                  |
| 34       | WCDMA II_UAT | RMC 12.2Kbps | Top Side      | 10mm     | Reduced         | 9538 | 1907.6      | 20.79               | 21.50               | 1.178                  | 0.18             | 0.716                  | 0.843                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Front         | 10mm     | Reduced         | 9400 | 1880        | 19.62               | 20.30               | 1.169                  | 0.19             | 0.310                  | 0.363                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Back          | 10mm     | Reduced         | 9400 | 1880        | 19.62               | 20.30               | 1.169                  | -0.1             | 0.374                  | 0.437                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Left Side     | 10mm     | Reduced         | 9400 | 1880        | 19.62               | 20.30               | 1.169                  | 0.09             | 0.063                  | 0.074                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Right Side    | 10mm     | Reduced         | 9400 | 1880        | 19.62               | 20.30               | 1.169                  | -0.03            | 0.090                  | 0.105                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 9400 | 1880        | 19.62               | 20.30               | 1.169                  | 0.03             | 0.480                  | 0.561                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 9262 | 1852.4      | 19.51               | 20.30               | 1.199                  | 0.05             | 0.478                  | 0.573                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Bottom Side   | 10mm     | Reduced         | 9538 | 1907.6      | 19.59               | 20.30               | 1.178                  | -0.17            | 0.489                  | 0.576                  |

**<CDMA SAR>**

| Plot No. | Band              | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Front         | 10mm     | Reduced         | 384  | 836.52      | 22.68               | 23.80               | 1.294                  | -0.17            | 0.313                  | 0.405                  |
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Back          | 10mm     | Reduced         | 384  | 836.52      | 22.68               | 23.80               | 1.294                  | 0.05             | 0.339                  | 0.439                  |
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 384  | 836.52      | 22.68               | 23.80               | 1.294                  | -0.16            | 0.448                  | 0.580                  |
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Right Side    | 10mm     | Reduced         | 384  | 836.52      | 22.68               | 23.80               | 1.294                  | 0.05             | 0.018                  | 0.023                  |
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Top Side      | 10mm     | Reduced         | 384  | 836.52      | 22.68               | 23.80               | 1.294                  | 0.13             | 0.014                  | 0.018                  |
|          | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 1013 | 824.7       | 22.59               | 23.80               | 1.321                  | 0                | 0.475                  | 0.628                  |
| 35       | CDMA2000 BC0_UAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 777  | 848.31      | 22.58               | 23.80               | 1.324                  | -0.18            | 0.543                  | 0.719                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Front         | 10mm     | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | -0.07            | 0.289                  | 0.356                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Back          | 10mm     | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | 0.12             | 0.365                  | 0.450                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | -0.1             | 0.155                  | 0.191                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Right Side    | 10mm     | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | -0.06            | 0.212                  | 0.261                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Bottom Side   | 10mm     | Full            | 384  | 836.52      | 23.89               | 24.80               | 1.233                  | -0.04            | 0.205                  | 0.253                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Back          | 10mm     | Full            | 1013 | 824.7       | 23.85               | 24.80               | 1.245                  | -0.13            | 0.416                  | 0.518                  |
|          | CDMA2000 BC0_LAT  | RTAP 153.6Kbps | Back          | 10mm     | Full            | 777  | 848.31      | 23.84               | 24.80               | 1.247                  | -0.03            | 0.356                  | 0.444                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Front         | 10mm     | Reduced         | 580  | 820.5       | 22.59               | 23.80               | 1.321                  | 0.09             | 0.330                  | 0.436                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Back          | 10mm     | Reduced         | 580  | 820.5       | 22.59               | 23.80               | 1.321                  | 0.06             | 0.369                  | 0.488                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 580  | 820.5       | 22.59               | 23.80               | 1.321                  | 0.06             | 0.543                  | 0.717                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Right Side    | 10mm     | Reduced         | 580  | 820.5       | 22.59               | 23.80               | 1.321                  | -0.01            | 0.020                  | 0.026                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Top Side      | 10mm     | Reduced         | 580  | 820.5       | 22.59               | 23.80               | 1.321                  | -0.02            | 0.014                  | 0.019                  |
| 36       | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 476  | 817.9       | 22.56               | 23.80               | 1.330                  | -0.13            | 0.546                  | 0.726                  |
|          | CDMA2000 BC10_UAT | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 684  | 823.1       | 22.54               | 23.80               | 1.337                  | -0.17            | 0.524                  | 0.700                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Front         | 10mm     | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.11             | 0.283                  | 0.340                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Back          | 10mm     | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.07             | 0.413                  | 0.497                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Left Side     | 10mm     | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | -0.13            | 0.152                  | 0.183                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Right Side    | 10mm     | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | -0.12            | 0.195                  | 0.234                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Bottom Side   | 10mm     | Full            | 580  | 820.5       | 24.00               | 24.80               | 1.202                  | 0.16             | 0.185                  | 0.222                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Back          | 10mm     | Full            | 476  | 817.9       | 23.91               | 24.80               | 1.227                  | 0.18             | 0.394                  | 0.484                  |
|          | CDMA2000 BC10_LAT | RTAP 153.6Kbps | Back          | 10mm     | Full            | 684  | 823.1       | 23.97               | 24.80               | 1.211                  | 0.05             | 0.412                  | 0.499                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Front         | 10mm     | Reduced         | 600  | 1880        | 16.96               | 18.00               | 1.271                  | -0.01            | 0.131                  | 0.166                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Back          | 10mm     | Reduced         | 600  | 1880        | 16.96               | 18.00               | 1.271                  | -0.09            | 0.147                  | 0.187                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 600  | 1880        | 16.96               | 18.00               | 1.271                  | -0.01            | 0.027                  | 0.034                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Right Side    | 10mm     | Reduced         | 600  | 1880        | 16.96               | 18.00               | 1.271                  | -0.02            | 0.019                  | 0.024                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Top Side      | 10mm     | Reduced         | 600  | 1880        | 16.96               | 18.00               | 1.271                  | -0.14            | 0.205                  | 0.260                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Top Side      | 10mm     | Reduced         | 25   | 1851.25     | 16.78               | 18.00               | 1.324                  | 0.03             | 0.185                  | 0.245                  |
|          | CDMA2000 BC1_UAT  | RTAP 153.6Kbps | Top Side      | 10mm     | Reduced         | 1175 | 1908.75     | 16.82               | 18.00               | 1.312                  | 0.05             | 0.234                  | 0.307                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Front         | 10mm     | Reduced         | 600  | 1880        | 20.11               | 21.30               | 1.315                  | -0.11            | 0.381                  | 0.501                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Back          | 10mm     | Reduced         | 600  | 1880        | 20.11               | 21.30               | 1.315                  | 0.02             | 0.485                  | 0.638                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Left Side     | 10mm     | Reduced         | 600  | 1880        | 20.11               | 21.30               | 1.315                  | -0.09            | 0.076                  | 0.100                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Right Side    | 10mm     | Reduced         | 600  | 1880        | 20.11               | 21.30               | 1.315                  | 0.19             | 0.103                  | 0.135                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Bottom Side   | 10mm     | Reduced         | 600  | 1880        | 20.11               | 21.30               | 1.315                  | 0.11             | 0.581                  | 0.764                  |
|          | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Bottom Side   | 10mm     | Reduced         | 25   | 1851.25     | 19.90               | 21.30               | 1.380                  | 0.16             | 0.553                  | 0.763                  |
| 37       | CDMA2000 BC1_LAT  | RTAP 153.6Kbps | Bottom Side   | 10mm     | Reduced         | 1175 | 1908.75     | 19.96               | 21.30               | 1.361                  | 0.09             | 0.600                  | 0.817                  |

**<FDD LTE SAR>**

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 38       | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.07             | 0.441                  | 0.456                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.02            | 0.517                  | 0.535                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.04            | 0.633                  | 0.655                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.04            | 0.132                  | 0.137                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.14             | 0.023                  | 0.024                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | -0.12            | 0.367                  | 0.378                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | 0.11             | 0.405                  | 0.417                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | 0                | 0.630                  | 0.649                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | 0.1              | 0.079                  | 0.081                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | -0.14            | 0.017                  | 0.017                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.09             | 0.254                  | 0.263                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.08            | 0.385                  | 0.399                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.16             | 0.207                  | 0.214                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.11            | 0.269                  | 0.278                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.05            | 0.149                  | 0.154                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.05             | 0.213                  | 0.218                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.19             | 0.332                  | 0.341                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0                | 0.178                  | 0.183                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | -0.11            | 0.192                  | 0.197                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.04             | 0.121                  | 0.124                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Front         | 10mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | 0.09             | 0.514                  | 0.621                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Back          | 10mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | 0.06             | 0.531                  | 0.641                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Left Side     | 10mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | 0.17             | 0.737                  | 0.890                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Right Side    | 10mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | -0.18            | 0.040                  | 0.048                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Top Side      | 10mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | 0.11             | 0.010                  | 0.012                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | -0.15            | 0.408                  | 0.492                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | 0.1              | 0.445                  | 0.536                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | -0.18            | 0.538                  | 0.648                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | -0.07            | 0.033                  | 0.040                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Top Side      | 10mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | -0.19            | 0.008                  | 0.010                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 50      | 0         | Left Side     | 10mm     | Full            | 23095  | 707.5       | 21.89               | 22.80               | 1.233                  | -0.05            | 0.588                  | 0.725                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Front         | 10mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.03             | 0.243                  | 0.296                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Back          | 10mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.03             | 0.462                  | 0.563                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Left Side     | 10mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.11             | 0.226                  | 0.275                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Right Side    | 10mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.14             | 0.190                  | 0.232                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Bottom Side   | 10mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.06             | 0.154                  | 0.188                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.1              | 0.251                  | 0.295                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | -0.05            | 0.383                  | 0.450                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.17             | 0.183                  | 0.215                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.12             | 0.156                  | 0.183                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | -0.15            | 0.124                  | 0.146                  |



| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 23230 | 782         | 21.23               | 22.30               | 1.279                  | 0.06             | 0.369                  | 0.472                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 23230 | 782         | 21.23               | 22.30               | 1.279                  | -0.07            | 0.396                  | 0.507                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 23230 | 782         | 21.23               | 22.30               | 1.279                  | 0.05             | 0.582                  | 0.745                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 23230 | 782         | 21.23               | 22.30               | 1.279                  | 0                | 0.024                  | 0.031                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 23230 | 782         | 21.23               | 22.30               | 1.279                  | -0.01            | 0.013                  | 0.016                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Reduced         | 23230 | 782         | 21.14               | 22.30               | 1.306                  | 0.12             | 0.312                  | 0.408                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Reduced         | 23230 | 782         | 21.14               | 22.30               | 1.306                  | -0.18            | 0.397                  | 0.519                  |
| 40       | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Reduced         | 23230 | 782         | 21.14               | 22.30               | 1.306                  | 0.16             | 0.585                  | 0.764                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Reduced         | 23230 | 782         | 21.14               | 22.30               | 1.306                  | -0.16            | 0.023                  | 0.030                  |
|          | LTE Band 13_UAT | 10M      | QPSK       | 25      | 12        | Top Side      | 10mm     | Reduced         | 23230 | 782         | 21.14               | 22.30               | 1.306                  | -0.1             | 0.053                  | 0.069                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | Full            | 23230 | 782         | 22.92               | 23.80               | 1.225                  | 0.1              | 0.244                  | 0.299                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 23230 | 782         | 22.92               | 23.80               | 1.225                  | 0.15             | 0.283                  | 0.347                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Full            | 23230 | 782         | 22.92               | 23.80               | 1.225                  | 0.18             | 0.186                  | 0.228                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Full            | 23230 | 782         | 22.92               | 23.80               | 1.225                  | -0.16            | 0.160                  | 0.196                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Full            | 23230 | 782         | 22.92               | 23.80               | 1.225                  | 0.06             | 0.143                  | 0.175                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Full            | 23230 | 782         | 22.03               | 22.80               | 1.194                  | 0.14             | 0.203                  | 0.242                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Full            | 23230 | 782         | 22.03               | 22.80               | 1.194                  | -0.05            | 0.324                  | 0.387                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Full            | 23230 | 782         | 22.03               | 22.80               | 1.194                  | -0.1             | 0.166                  | 0.198                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Full            | 23230 | 782         | 22.03               | 22.80               | 1.194                  | 0.11             | 0.131                  | 0.156                  |
|          | LTE Band 13_LAT | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10mm     | Full            | 23230 | 782         | 22.03               | 22.80               | 1.194                  | -0.19            | 0.131                  | 0.156                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | Reduced         | 20525 | 836.5       | 21.46               | 22.80               | 1.361                  | 0.07             | 0.455                  | 0.619                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | Reduced         | 20525 | 836.5       | 21.46               | 22.80               | 1.361                  | -0.18            | 0.453                  | 0.617                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Left Side     | 10mm     | Reduced         | 20525 | 836.5       | 21.46               | 22.80               | 1.361                  | -0.05            | 0.616                  | 0.839                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Right Side    | 10mm     | Reduced         | 20525 | 836.5       | 21.46               | 22.80               | 1.361                  | 0.01             | 0.015                  | 0.020                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 1       | 49        | Top Side      | 10mm     | Reduced         | 20525 | 836.5       | 21.46               | 22.80               | 1.361                  | 0.1              | 0.010                  | 0.014                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Reduced         | 20525 | 836.5       | 21.39               | 22.80               | 1.384                  | 0.18             | 0.373                  | 0.516                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Reduced         | 20525 | 836.5       | 21.39               | 22.80               | 1.384                  | -0.17            | 0.376                  | 0.520                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Reduced         | 20525 | 836.5       | 21.39               | 22.80               | 1.384                  | -0.18            | 0.586                  | 0.811                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Reduced         | 20525 | 836.5       | 21.39               | 22.80               | 1.384                  | 0.1              | 0.013                  | 0.018                  |
|          | LTE Band 5_UAT  | 10M      | QPSK       | 25      | 12        | Top Side      | 10mm     | Reduced         | 20525 | 836.5       | 21.39               | 22.80               | 1.384                  | 0.06             | 0.008                  | 0.010                  |
| 41       | LTE Band 5_UAT  | 10M      | QPSK       | 50      | 0         | Left Side     | 10mm     | Reduced         | 20525 | 836.5       | 21.09               | 22.80               | 1.483                  | 0.18             | 0.595                  | 0.882                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | -0.17            | 0.268                  | 0.334                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | -0.01            | 0.332                  | 0.414                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Left Side     | 10mm     | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0                | 0.138                  | 0.172                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Right Side    | 10mm     | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0.04             | 0.168                  | 0.210                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 1       | 49        | Bottom Side   | 10mm     | Full            | 20525 | 836.5       | 22.84               | 23.80               | 1.247                  | 0.08             | 0.208                  | 0.259                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | -0.03            | 0.221                  | 0.271                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | -0.16            | 0.280                  | 0.344                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | 0.06             | 0.109                  | 0.134                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | -0.18            | 0.140                  | 0.172                  |
|          | LTE Band 5_LAT  | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10mm     | Full            | 20525 | 836.5       | 21.91               | 22.80               | 1.227                  | 0.12             | 0.163                  | 0.200                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 26865  | 831.5       | 21.30               | 22.30               | 1.259                  | -0.1             | 0.336                  | 0.423                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 26865  | 831.5       | 21.30               | 22.30               | 1.259                  | -0.14            | 0.340                  | 0.428                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 26865  | 831.5       | 21.30               | 22.30               | 1.259                  | 0.05             | 0.548                  | 0.690                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 26865  | 831.5       | 21.30               | 22.30               | 1.259                  | 0.16             | 0.014                  | 0.017                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 26865  | 831.5       | 21.30               | 22.30               | 1.259                  | -0.13            | 0.006                  | 0.008                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Front         | 10mm     | Reduced         | 26865  | 831.5       | 21.27               | 22.30               | 1.268                  | 0.12             | 0.368                  | 0.466                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Back          | 10mm     | Reduced         | 26865  | 831.5       | 21.27               | 22.30               | 1.268                  | -0.14            | 0.395                  | 0.501                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Left Side     | 10mm     | Reduced         | 26865  | 831.5       | 21.27               | 22.30               | 1.268                  | 0.18             | 0.572                  | 0.725                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Right Side    | 10mm     | Reduced         | 26865  | 831.5       | 21.27               | 22.30               | 1.268                  | -0.07            | 0.016                  | 0.020                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Top Side      | 10mm     | Reduced         | 26865  | 831.5       | 21.27               | 22.30               | 1.268                  | -0.19            | 0.007                  | 0.009                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Left Side     | 10mm     | Reduced         | 26765  | 821.5       | 21.26               | 22.30               | 1.271                  | -0.04            | 0.518                  | 0.658                  |
| 42       | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Left Side     | 10mm     | Reduced         | 26965  | 841.5       | 21.21               | 22.30               | 1.285                  | -0.15            | 0.652                  | 0.838                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 75      | 0         | Left Side     | 10mm     | Reduced         | 26865  | 831.5       | 21.22               | 22.30               | 1.282                  | -0.1             | 0.435                  | 0.558                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 75      | 0         | Left Side     | 10mm     | Reduced         | 26765  | 821.5       | 21.18               | 22.30               | 1.294                  | -0.06            | 0.540                  | 0.699                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 75      | 0         | Left Side     | 10mm     | Reduced         | 26965  | 841.5       | 21.14               | 22.30               | 1.306                  | -0.07            | 0.574                  | 0.750                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0.15             | 0.317                  | 0.382                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0.03             | 0.428                  | 0.516                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0.02             | 0.154                  | 0.186                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0.15             | 0.183                  | 0.221                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0                | 0.163                  | 0.196                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 26765  | 821.5       | 22.96               | 23.80               | 1.213                  | -0.04            | 0.442                  | 0.536                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 26965  | 841.5       | 22.95               | 23.80               | 1.216                  | 0.11             | 0.397                  | 0.483                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Front         | 10mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | 0.11             | 0.256                  | 0.303                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Back          | 10mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | 0.06             | 0.302                  | 0.357                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Left Side     | 10mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | -0.03            | 0.121                  | 0.143                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Right Side    | 10mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | 0.14             | 0.138                  | 0.163                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Bottom Side   | 10mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | -0.17            | 0.130                  | 0.154                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.08            | 0.386                  | 0.515                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.11            | 0.416                  | 0.555                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.09            | 0.122                  | 0.163                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | 0.18             | 0.001                  | 0.001                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.05            | 0.605                  | 0.807                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Full            | 132072 | 1720        | 20.61               | 22.00               | 1.377                  | 0.07             | 0.492                  | 0.678                  |
| 43       | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Full            | 132572 | 1770        | 20.73               | 22.00               | 1.340                  | 0.09             | 0.685                  | 0.918                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | 0.18             | 0.328                  | 0.428                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | -0.09            | 0.365                  | 0.477                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | -0.16            | 0.100                  | 0.131                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | -0.1             | 0.001                  | 0.001                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | -0.11            | 0.532                  | 0.695                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Full            | 132322 | 1745        | 19.86               | 21.00               | 1.300                  | -0.15            | 0.476                  | 0.619                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Full            | 132072 | 1720        | 19.55               | 21.00               | 1.396                  | 0.05             | 0.397                  | 0.554                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Full            | 132572 | 1770        | 19.84               | 21.00               | 1.306                  | 0.1              | 0.505                  | 0.660                  |
|          | LTE Band 66C_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Full            | 132572 | 1770        | 20.97               | 22.00               | 1.268                  | 0.06             | 0.630                  | 0.799                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 132322 | 1745        | 19.88               | 20.80               | 1.236                  | 0.09             | 0.355                  | 0.439                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 132322 | 1745        | 19.88               | 20.80               | 1.236                  | 0                | 0.525                  | 0.649                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 132322 | 1745        | 19.88               | 20.80               | 1.236                  | -0.14            | 0.126                  | 0.156                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 132322 | 1745        | 19.88               | 20.80               | 1.236                  | -0.16            | 0.078                  | 0.096                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Reduced         | 132322 | 1745        | 19.88               | 20.80               | 1.236                  | 0.15             | 0.654                  | 0.808                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 132322 | 1745        | 19.86               | 20.80               | 1.242                  | -0.04            | 0.373                  | 0.463                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 132322 | 1745        | 19.86               | 20.80               | 1.242                  | 0.07             | 0.573                  | 0.711                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 132322 | 1745        | 19.86               | 20.80               | 1.242                  | -0.19            | 0.138                  | 0.171                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 132322 | 1745        | 19.86               | 20.80               | 1.242                  | -0.04            | 0.079                  | 0.098                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 132322 | 1745        | 19.86               | 20.80               | 1.242                  | 0.09             | 0.704                  | 0.874                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 132072 | 1720        | 19.85               | 20.80               | 1.245                  | 0.13             | 0.630                  | 0.784                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 132572 | 1770        | 19.79               | 20.80               | 1.262                  | -0.17            | 0.617                  | 0.779                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | Reduced         | 132322 | 1745        | 19.83               | 20.80               | 1.250                  | 0.1              | 0.688                  | 0.860                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | Reduced         | 132072 | 1720        | 19.82               | 20.80               | 1.253                  | 0.18             | 0.636                  | 0.797                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | Reduced         | 132572 | 1770        | 19.80               | 20.80               | 1.259                  | 0.03             | 0.629                  | 0.792                  |
|          | LTE Band 66C_LAT | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Reduced         | 132572 | 1770        | 19.75               | 20.80               | 1.274                  | 0.11             | 0.619                  | 0.788                  |



| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 26340 | 1880        | 15.90               | 16.50               | 1.148                  | 0.09             | 0.331                  | 0.380                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 26340 | 1880        | 15.90               | 16.50               | 1.148                  | 0.1              | 0.333                  | 0.382                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 26340 | 1880        | 15.90               | 16.50               | 1.148                  | -0.04            | 0.079                  | 0.091                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 26340 | 1880        | 15.90               | 16.50               | 1.148                  | -0.05            | 0.001                  | 0.001                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 26340 | 1880        | 15.90               | 16.50               | 1.148                  | 0.04             | 0.491                  | 0.564                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 26340 | 1880        | 15.89               | 16.50               | 1.151                  | -0.11            | 0.337                  | 0.388                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 26340 | 1880        | 15.89               | 16.50               | 1.151                  | 0.1              | 0.405                  | 0.466                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 26340 | 1880        | 15.89               | 16.50               | 1.151                  | -0.06            | 0.083                  | 0.096                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 26340 | 1880        | 15.89               | 16.50               | 1.151                  | -0.13            | 0.001                  | 0.001                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 26340 | 1880        | 15.89               | 16.50               | 1.151                  | 0.19             | 0.545                  | 0.627                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 26140 | 1860        | 15.88               | 16.50               | 1.153                  | -0.15            | 0.539                  | 0.622                  |
| 44       | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 26590 | 1905        | 15.84               | 16.50               | 1.164                  | 0.16             | 0.561                  | 0.653                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 26340 | 1880        | 17.64               | 18.30               | 1.164                  | 0.04             | 0.265                  | 0.308                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 26340 | 1880        | 17.64               | 18.30               | 1.164                  | 0.07             | 0.326                  | 0.380                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 26340 | 1880        | 17.64               | 18.30               | 1.164                  | -0.09            | 0.046                  | 0.054                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 26340 | 1880        | 17.64               | 18.30               | 1.164                  | -0.12            | 0.068                  | 0.079                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Reduced         | 26340 | 1880        | 17.64               | 18.30               | 1.164                  | 0.1              | 0.443                  | 0.516                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 26340 | 1880        | 17.61               | 18.30               | 1.172                  | 0.08             | 0.270                  | 0.316                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 26340 | 1880        | 17.61               | 18.30               | 1.172                  | -0.12            | 0.401                  | 0.470                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 26340 | 1880        | 17.61               | 18.30               | 1.172                  | 0.16             | 0.042                  | 0.049                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 26340 | 1880        | 17.61               | 18.30               | 1.172                  | 0.18             | 0.067                  | 0.079                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 26340 | 1880        | 17.61               | 18.30               | 1.172                  | 0.1              | 0.441                  | 0.517                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 26140 | 1860        | 17.53               | 18.30               | 1.194                  | 0.05             | 0.412                  | 0.492                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 26590 | 1905        | 17.54               | 18.30               | 1.191                  | 0.12             | 0.404                  | 0.481                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 27710 | 2310        | 15.66               | 16.30               | 1.159                  | 0.09             | 0.409                  | 0.474                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 27710 | 2310        | 15.66               | 16.30               | 1.159                  | -0.06            | 0.483                  | 0.560                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 27710 | 2310        | 15.66               | 16.30               | 1.159                  | 0.11             | 0.099                  | 0.115                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 27710 | 2310        | 15.66               | 16.30               | 1.159                  | -0.16            | 0.001                  | 0.001                  |
| 45       | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 27710 | 2310        | 15.66               | 16.30               | 1.159                  | 0.06             | 0.793                  | 0.919                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Reduced         | 27710 | 2310        | 15.65               | 16.30               | 1.161                  | -0.19            | 0.401                  | 0.466                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Reduced         | 27710 | 2310        | 15.65               | 16.30               | 1.161                  | -0.15            | 0.472                  | 0.548                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Reduced         | 27710 | 2310        | 15.65               | 16.30               | 1.161                  | -0.03            | 0.091                  | 0.106                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Reduced         | 27710 | 2310        | 15.65               | 16.30               | 1.161                  | 0.11             | 0.001                  | 0.001                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Top Side      | 10mm     | Reduced         | 27710 | 2310        | 15.65               | 16.30               | 1.161                  | 0.03             | 0.790                  | 0.918                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 50      | 0         | Top Side      | 10mm     | Reduced         | 27710 | 2310        | 15.60               | 16.30               | 1.175                  | 0.07             | 0.778                  | 0.914                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 27710 | 2310        | 18.42               | 19.30               | 1.225                  | 0.08             | 0.299                  | 0.366                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 27710 | 2310        | 18.42               | 19.30               | 1.225                  | 0.17             | 0.326                  | 0.399                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 27710 | 2310        | 18.42               | 19.30               | 1.225                  | -0.06            | 0.095                  | 0.116                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 27710 | 2310        | 18.42               | 19.30               | 1.225                  | -0.16            | 0.053                  | 0.065                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Reduced         | 27710 | 2310        | 18.42               | 19.30               | 1.225                  | -0.11            | 0.285                  | 0.349                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | Reduced         | 27710 | 2310        | 18.41               | 19.30               | 1.227                  | 0.07             | 0.303                  | 0.372                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | Reduced         | 27710 | 2310        | 18.41               | 19.30               | 1.227                  | 0.11             | 0.450                  | 0.552                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | Reduced         | 27710 | 2310        | 18.41               | 19.30               | 1.227                  | 0.07             | 0.098                  | 0.120                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | Reduced         | 27710 | 2310        | 18.41               | 19.30               | 1.227                  | -0.1             | 0.063                  | 0.077                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10mm     | Reduced         | 27710 | 2310        | 18.41               | 19.30               | 1.227                  | 0.05             | 0.284                  | 0.349                  |

| Plot No. | Band           | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 20850 | 2510        | 14.23               | 14.80               | 1.140                  | 0.09             | 0.366                  | 0.417                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 20850 | 2510        | 14.23               | 14.80               | 1.140                  | -0.07            | 0.389                  | 0.444                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 20850 | 2510        | 14.23               | 14.80               | 1.140                  | 0.03             | 0.001                  | 0.001                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 20850 | 2510        | 14.23               | 14.80               | 1.140                  | -0.18            | 0.001                  | 0.001                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 20850 | 2510        | 14.23               | 14.80               | 1.140                  | -0.03            | 0.765                  | 0.872                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 21100 | 2535        | 14.18               | 14.80               | 1.153                  | -0.06            | 0.589                  | 0.679                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 21350 | 2560        | 14.21               | 14.80               | 1.146                  | 0                | 0.554                  | 0.635                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 20850 | 2510        | 14.21               | 14.80               | 1.146                  | -0.11            | 0.201                  | 0.230                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 20850 | 2510        | 14.21               | 14.80               | 1.146                  | 0.02             | 0.228                  | 0.261                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 20850 | 2510        | 14.21               | 14.80               | 1.146                  | 0.08             | 0.001                  | 0.001                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 20850 | 2510        | 14.21               | 14.80               | 1.146                  | -0.06            | 0.001                  | 0.001                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 20850 | 2510        | 14.21               | 14.80               | 1.146                  | -0.02            | 0.551                  | 0.631                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 20850 | 2510        | 14.20               | 14.80               | 1.148                  | -0.08            | 0.640                  | 0.735                  |
| 46       | LTE Band 7_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 20850 | 2510        | 14.20               | 14.80               | 1.148                  | 0.14             | 0.800                  | 0.919                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 21100 | 2535        | 14.15               | 14.80               | 1.161                  | -0.11            | 0.479                  | 0.556                  |
|          | LTE Band 7_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 21350 | 2560        | 14.11               | 14.80               | 1.172                  | 0.07             | 0.490                  | 0.574                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | Reduced         | 20850 | 2510        | 17.92               | 18.30               | 1.091                  | 0.11             | 0.249                  | 0.272                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 20850 | 2510        | 17.92               | 18.30               | 1.091                  | 0.1              | 0.345                  | 0.377                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | Reduced         | 20850 | 2510        | 17.92               | 18.30               | 1.091                  | 0.1              | 0.090                  | 0.098                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | Reduced         | 20850 | 2510        | 17.92               | 18.30               | 1.091                  | -0.13            | 0.067                  | 0.073                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | Reduced         | 20850 | 2510        | 17.92               | 18.30               | 1.091                  | -0.14            | 0.305                  | 0.333                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 20850 | 2510        | 17.90               | 18.30               | 1.096                  | 0.02             | 0.254                  | 0.279                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 20850 | 2510        | 17.90               | 18.30               | 1.096                  | 0.06             | 0.503                  | 0.552                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 20850 | 2510        | 17.90               | 18.30               | 1.096                  | 0.17             | 0.094                  | 0.103                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 20850 | 2510        | 17.90               | 18.30               | 1.096                  | 0.08             | 0.067                  | 0.073                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 20850 | 2510        | 17.90               | 18.30               | 1.096                  | -0.07            | 0.310                  | 0.340                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 21100 | 2535        | 17.85               | 18.30               | 1.109                  | 0.1              | 0.337                  | 0.374                  |
|          | LTE Band 7_LAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 21350 | 2560        | 17.89               | 18.30               | 1.099                  | 0.15             | 0.330                  | 0.363                  |



## &lt;TDD LTE SAR&gt;

| Plot No. | Band                  | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Front         | 10mm     | Reduced         | 40620 | 2593        | 17.47               | 17.80               | 1.079                  | 62.9         | 1.006                     | -0.1             | 0.145                  | 0.157                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Back          | 10mm     | Reduced         | 40620 | 2593        | 17.47               | 17.80               | 1.079                  | 62.9         | 1.006                     | 0.09             | 0.183                  | 0.199                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 17.47               | 17.80               | 1.079                  | 62.9         | 1.006                     | -0.14            | 0.001                  | 0.001                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 17.47               | 17.80               | 1.079                  | 62.9         | 1.006                     | 0.19             | 0.001                  | 0.001                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 1       | 49        | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 17.47               | 17.80               | 1.079                  | 62.9         | 1.006                     | -0.11            | 0.469                  | 0.509                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 40620 | 2593        | 17.46               | 17.80               | 1.081                  | 62.9         | 1.006                     | -0.12            | 0.149                  | 0.162                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 40620 | 2593        | 17.46               | 17.80               | 1.081                  | 62.9         | 1.006                     | 0.06             | 0.250                  | 0.272                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 17.46               | 17.80               | 1.081                  | 62.9         | 1.006                     | 0.08             | 0.001                  | 0.001                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 17.46               | 17.80               | 1.081                  | 62.9         | 1.006                     | 0.03             | 0.001                  | 0.001                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 17.46               | 17.80               | 1.081                  | 62.9         | 1.006                     | -0.16            | 0.480                  | 0.522                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 39750 | 2506        | 17.45               | 17.80               | 1.084                  | 62.9         | 1.006                     | 0.15             | 0.726                  | 0.792                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 40185 | 2549.5      | 17.44               | 17.80               | 1.086                  | 62.9         | 1.006                     | 0.01             | 0.490                  | 0.536                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 41055 | 2636.5      | 17.33               | 17.80               | 1.114                  | 62.9         | 1.006                     | -0.13            | 0.355                  | 0.398                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 41490 | 2680        | 17.31               | 17.80               | 1.119                  | 62.9         | 1.006                     | 0.05             | 0.365                  | 0.411                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 17.45               | 17.80               | 1.084                  | 62.9         | 1.006                     | -0.02            | 0.469                  | 0.511                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 39750 | 2506        | 17.42               | 17.80               | 1.091                  | 62.9         | 1.006                     | 0.09             | 0.640                  | 0.703                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 40185 | 2549.5      | 17.33               | 17.80               | 1.114                  | 62.9         | 1.006                     | 0                | 0.479                  | 0.537                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 41055 | 2636.5      | 17.33               | 17.80               | 1.114                  | 62.9         | 1.006                     | -0.11            | 0.346                  | 0.388                  |
|          | LTE Band 41_UAT       | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 41490 | 2680        | 17.18               | 17.80               | 1.153                  | 62.9         | 1.006                     | 0.16             | 0.249                  | 0.289                  |
|          | LTE Band 41C_UAT      | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 17.78               | 17.80               | 1.005                  | 62.9         | 1.006                     | 0.06             | 0.688                  | 0.695                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Front         | 10mm     | Reduced         | 40620 | 2593        | 20.41               | 20.80               | 1.094                  | 62.9         | 1.006                     | -0.06            | 0.254                  | 0.280                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Back          | 10mm     | Reduced         | 40620 | 2593        | 20.41               | 20.80               | 1.094                  | 62.9         | 1.006                     | -0.02            | 0.332                  | 0.365                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 20.41               | 20.80               | 1.094                  | 62.9         | 1.006                     | -0.15            | 0.081                  | 0.089                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 20.41               | 20.80               | 1.094                  | 62.9         | 1.006                     | -0.13            | 0.077                  | 0.085                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 1       | 49        | Bottom Side   | 10mm     | Reduced         | 40620 | 2593        | 20.41               | 20.80               | 1.094                  | 62.9         | 1.006                     | 0.06             | 0.272                  | 0.299                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 40620 | 2593        | 20.39               | 20.80               | 1.099                  | 62.9         | 1.006                     | 0.06             | 0.254                  | 0.281                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 40620 | 2593        | 20.39               | 20.80               | 1.099                  | 62.9         | 1.006                     | 0.03             | 0.336                  | 0.371                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 20.39               | 20.80               | 1.099                  | 62.9         | 1.006                     | 0                | 0.078                  | 0.086                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 20.39               | 20.80               | 1.099                  | 62.9         | 1.006                     | -0.04            | 0.075                  | 0.083                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Bottom Side   | 10mm     | Reduced         | 40620 | 2593        | 20.39               | 20.80               | 1.099                  | 62.9         | 1.006                     | 0.02             | 0.273                  | 0.302                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 39750 | 2506        | 20.20               | 20.80               | 1.148                  | 62.9         | 1.006                     | 0.19             | 0.499                  | 0.576                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 40185 | 2549.5      | 20.21               | 20.80               | 1.146                  | 62.9         | 1.006                     | 0.18             | 0.323                  | 0.372                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 41055 | 2636.5      | 20.38               | 20.80               | 1.102                  | 62.9         | 1.006                     | -0.17            | 0.331                  | 0.367                  |
|          | LTE Band 41_LAT       | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 41490 | 2680        | 20.36               | 20.80               | 1.107                  | 62.9         | 1.006                     | -0.11            | 0.302                  | 0.336                  |
|          | LTE Band 41C_LAT      | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | Reduced         | 40620 | 2593        | 20.73               | 20.80               | 1.016                  | 62.9         | 1.006                     | 0.07             | 0.549                  | 0.561                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Front         | 10mm     | Reduced         | 40620 | 2593        | 19.17               | 19.80               | 1.156                  | 42.9         | 1.009                     | 0.04             | 0.153                  | 0.178                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Back          | 10mm     | Reduced         | 40620 | 2593        | 19.17               | 19.80               | 1.156                  | 42.9         | 1.009                     | 0.15             | 0.190                  | 0.222                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 19.17               | 19.80               | 1.156                  | 42.9         | 1.009                     | 0.13             | 0.001                  | 0.001                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 19.17               | 19.80               | 1.156                  | 42.9         | 1.009                     | 0.07             | 0.001                  | 0.001                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 1       | 49        | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 19.17               | 19.80               | 1.156                  | 42.9         | 1.009                     | 0.16             | 0.472                  | 0.551                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Front         | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | -0.16            | 0.157                  | 0.187                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Back          | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | -0.15            | 0.284                  | 0.337                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Left Side     | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | -0.04            | 0.001                  | 0.001                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Right Side    | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | 0.01             | 0.001                  | 0.001                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | -0.01            | 0.483                  | 0.574                  |
| 47       | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 39750 | 2506        | 19.07               | 19.80               | 1.183                  | 42.9         | 1.009                     | 0.12             | 0.771                  | 0.920                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 40185 | 2549.5      | 19.08               | 19.80               | 1.180                  | 42.9         | 1.009                     | 0.11             | 0.503                  | 0.599                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 41055 | 2636.5      | 19.05               | 19.80               | 1.189                  | 42.9         | 1.009                     | 0.1              | 0.354                  | 0.425                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 50      | 24        | Top Side      | 10mm     | Reduced         | 41490 | 2680        | 18.98               | 19.80               | 1.208                  | 42.9         | 1.009                     | -0.08            | 0.289                  | 0.352                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 40620 | 2593        | 19.09               | 19.80               | 1.178                  | 42.9         | 1.009                     | 0                | 0.467                  | 0.555                  |
|          | LTE Band 41(HPUE)_UAT | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | Reduced         | 39750 | 2506        | 19.11               | 19.80               | 1.172                  | 42.9         | 1.009                     | 0.11             | 0.660                  | 0.781                  |



# FCC SAR TEST REPORT

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|    |                        |     |      |     |    |             |      |         |       |        |       |       |       |      |       |       |       |       |
|----|------------------------|-----|------|-----|----|-------------|------|---------|-------|--------|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 40185 | 2549.5 | 19.03 | 19.80 | 1.194 | 42.9 | 1.009 | -0.08 | 0.489 | 0.589 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 41055 | 2636.5 | 18.99 | 19.80 | 1.205 | 42.9 | 1.009 | -0.12 | 0.346 | 0.421 |
|    | LTE Band 41(HPUE)_UAT  | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 41490 | 2680   | 19.01 | 19.80 | 1.199 | 42.9 | 1.009 | 0.03  | 0.284 | 0.344 |
|    | LTE Band 41C(HPUE)_UAT | 20M | QPSK | 1   | 0  | Top Side    | 10mm | Reduced | 40620 | 2593   | 19.19 | 19.80 | 1.151 | 42.9 | 1.009 | 0.02  | 0.681 | 0.791 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Front       | 10mm | Reduced | 40620 | 2593   | 22.56 | 23.30 | 1.186 | 42.9 | 1.009 | 0.05  | 0.327 | 0.391 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Back        | 10mm | Reduced | 40620 | 2593   | 22.56 | 23.30 | 1.186 | 42.9 | 1.009 | 0.02  | 0.358 | 0.428 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Left Side   | 10mm | Reduced | 40620 | 2593   | 22.56 | 23.30 | 1.186 | 42.9 | 1.009 | -0.01 | 0.094 | 0.112 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Right Side  | 10mm | Reduced | 40620 | 2593   | 22.56 | 23.30 | 1.186 | 42.9 | 1.009 | 0.18  | 0.086 | 0.103 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 1   | 49 | Bottom Side | 10mm | Reduced | 40620 | 2593   | 22.56 | 23.30 | 1.186 | 42.9 | 1.009 | -0.15 | 0.326 | 0.390 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Front       | 10mm | Reduced | 40620 | 2593   | 22.55 | 23.30 | 1.189 | 42.9 | 1.009 | -0.02 | 0.329 | 0.395 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 40620 | 2593   | 22.55 | 23.30 | 1.189 | 42.9 | 1.009 | 0.18  | 0.362 | 0.434 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Left Side   | 10mm | Reduced | 40620 | 2593   | 22.55 | 23.30 | 1.189 | 42.9 | 1.009 | -0.04 | 0.100 | 0.120 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Right Side  | 10mm | Reduced | 40620 | 2593   | 22.55 | 23.30 | 1.189 | 42.9 | 1.009 | 0.08  | 0.098 | 0.118 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Bottom Side | 10mm | Reduced | 40620 | 2593   | 22.55 | 23.30 | 1.189 | 42.9 | 1.009 | 0.05  | 0.331 | 0.397 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 39750 | 2506   | 22.47 | 23.30 | 1.211 | 42.9 | 1.009 | 0.12  | 0.584 | 0.713 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 40185 | 2549.5 | 22.52 | 23.30 | 1.197 | 42.9 | 1.009 | 0     | 0.372 | 0.449 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 41055 | 2636.5 | 22.43 | 23.30 | 1.222 | 42.9 | 1.009 | -0.06 | 0.318 | 0.392 |
|    | LTE Band 41(HPUE)_LAT  | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 41490 | 2680   | 22.40 | 23.30 | 1.230 | 42.9 | 1.009 | 0     | 0.334 | 0.415 |
|    | LTE Band 41C(HPUE)_LAT | 20M | QPSK | 1   | 0  | Back        | 10mm | Reduced | 41055 | 2636.5 | 22.03 | 23.30 | 1.340 | 42.9 | 1.009 | 0.08  | 0.496 | 0.670 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Front       | 10mm | Reduced | 55830 | 3609   | 18.37 | 18.80 | 1.104 | 62.9 | 1.006 | -0.11 | 0.240 | 0.267 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Back        | 10mm | Reduced | 55830 | 3609   | 18.37 | 18.80 | 1.104 | 62.9 | 1.006 | 0.02  | 0.358 | 0.398 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Left Side   | 10mm | Reduced | 55830 | 3609   | 18.37 | 18.80 | 1.104 | 62.9 | 1.006 | 0.08  | 0.090 | 0.100 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Right Side  | 10mm | Reduced | 55830 | 3609   | 18.37 | 18.80 | 1.104 | 62.9 | 1.006 | -0.06 | 0.055 | 0.061 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Top Side    | 10mm | Reduced | 55830 | 3609   | 18.37 | 18.80 | 1.104 | 62.9 | 1.006 | -0.02 | 0.481 | 0.534 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Top Side    | 10mm | Reduced | 55340 | 3560   | 18.13 | 18.80 | 1.167 | 62.9 | 1.006 | -0.11 | 0.472 | 0.554 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Top Side    | 10mm | Reduced | 56150 | 3641   | 18.30 | 18.80 | 1.122 | 62.9 | 1.006 | -0.08 | 0.565 | 0.638 |
| 48 | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Top Side    | 10mm | Reduced | 56640 | 3690   | 18.24 | 18.80 | 1.138 | 62.9 | 1.006 | 0.14  | 0.636 | 0.728 |
|    | LTE Band 48_UAT        | 20M | QPSK | 1   | 49 | Top Side    | 10mm | Reduced | 56640 | 3690   | 18.24 | 18.80 | 1.138 | 62.9 | 1.006 | -0.11 | 0.631 | 0.722 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Front       | 10mm | Reduced | 55830 | 3609   | 18.36 | 18.80 | 1.107 | 62.9 | 1.006 | -0.01 | 0.231 | 0.257 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Back        | 10mm | Reduced | 55830 | 3609   | 18.36 | 18.80 | 1.107 | 62.9 | 1.006 | -0.02 | 0.385 | 0.429 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Left Side   | 10mm | Reduced | 55830 | 3609   | 18.36 | 18.80 | 1.107 | 62.9 | 1.006 | -0.18 | 0.087 | 0.097 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Right Side  | 10mm | Reduced | 55830 | 3609   | 18.36 | 18.80 | 1.107 | 62.9 | 1.006 | -0.08 | 0.054 | 0.060 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Top Side    | 10mm | Reduced | 55830 | 3609   | 18.36 | 18.80 | 1.107 | 62.9 | 1.006 | -0.15 | 0.441 | 0.491 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Top Side    | 10mm | Reduced | 55340 | 3560   | 18.29 | 18.80 | 1.125 | 62.9 | 1.006 | -0.08 | 0.473 | 0.535 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Top Side    | 10mm | Reduced | 56150 | 3641   | 18.33 | 18.80 | 1.114 | 62.9 | 1.006 | -0.03 | 0.570 | 0.639 |
|    | LTE Band 48_UAT        | 20M | QPSK | 50  | 24 | Top Side    | 10mm | Reduced | 56640 | 3690   | 18.25 | 18.80 | 1.135 | 62.9 | 1.006 | 0.07  | 0.635 | 0.725 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 55830 | 3609   | 18.33 | 18.80 | 1.114 | 62.9 | 1.006 | 0.1   | 0.478 | 0.536 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 55340 | 3560   | 18.10 | 18.80 | 1.175 | 62.9 | 1.006 | 0.07  | 0.462 | 0.546 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 56150 | 3641   | 18.22 | 18.80 | 1.143 | 62.9 | 1.006 | 0.11  | 0.556 | 0.639 |
|    | LTE Band 48_UAT        | 20M | QPSK | 100 | 0  | Top Side    | 10mm | Reduced | 56640 | 3690   | 18.23 | 18.80 | 1.140 | 62.9 | 1.006 | 0.1   | 0.627 | 0.719 |
|    | LTE Band 48C_UAT       | 20M | QPSK | 1   | 0  | Top Side    | 10mm | Reduced | 56150 | 3641   | 18.34 | 18.80 | 1.112 | 62.9 | 1.006 | 0.06  | 0.641 | 0.717 |



## &lt;5G NR NSA SAR&gt;

| Plot No. | Band   | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.04            | 0.282                  | 0.357                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Front         | 10mm     | Reduced         | 380000 | 1900        | 18.52               | 19.50               | 1.253                  | -0.12            | 0.278                  | 0.349                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.01            | 0.297                  | 0.375                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 10mm     | Reduced         | 380000 | 1900        | 18.52               | 19.50               | 1.253                  | -0.18            | 0.321                  | 0.403                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.16            | 0.046                  | 0.058                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Left Side     | 10mm     | Reduced         | 380000 | 1900        | 18.52               | 19.50               | 1.253                  | -0.1             | 0.050                  | 0.062                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.06            | 0.032                  | 0.040                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Right Side    | 10mm     | Reduced         | 380000 | 1900        | 18.52               | 19.50               | 1.253                  | -0.09            | 0.034                  | 0.043                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.09            | 0.514                  | 0.650                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 372000 | 1860        | 18.14               | 19.50               | 1.368                  | -0.16            | 0.389                  | 0.533                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 376000 | 1880        | 18.46               | 19.50               | 1.271                  | -0.13            | 0.428                  | 0.543                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Top Side      | 10mm     | Reduced         | 380000 | 1900        | 18.52               | 19.50               | 1.253                  | -0.12            | 0.506                  | 0.634                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Top Side      | 10mm     | Reduced         | 372000 | 1860        | 18.01               | 19.50               | 1.409                  | -0.01            | 0.408                  | 0.576                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Top Side      | 10mm     | Reduced         | 376000 | 1880        | 18.51               | 19.50               | 1.256                  | -0.14            | 0.467                  | 0.587                  |
|          | N2_UAT | 20M      | PI/2 BPSK  | 100     | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 380000 | 1900        | 18.48               | 19.50               | 1.265                  | -0.16            | 0.505                  | 0.638                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 380000 | 1900        | 20.33               | 21.00               | 1.167                  | -0.14            | 0.378                  | 0.441                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 380000 | 1900        | 20.24               | 21.00               | 1.191                  | -0.18            | 0.388                  | 0.462                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 380000 | 1900        | 20.33               | 21.00               | 1.167                  | -0.19            | 0.436                  | 0.509                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 380000 | 1900        | 20.24               | 21.00               | 1.191                  | -0.14            | 0.448                  | 0.534                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 380000 | 1900        | 20.33               | 21.00               | 1.167                  | -0.02            | 0.078                  | 0.091                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 380000 | 1900        | 20.24               | 21.00               | 1.191                  | -0.17            | 0.072                  | 0.086                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 380000 | 1900        | 20.33               | 21.00               | 1.167                  | -0.19            | 0.085                  | 0.099                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 380000 | 1900        | 20.24               | 21.00               | 1.191                  | -0.11            | 0.081                  | 0.096                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 380000 | 1900        | 20.33               | 21.00               | 1.167                  | -0.14            | 0.535                  | 0.624                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 380000 | 1900        | 20.24               | 21.00               | 1.191                  | -0.16            | 0.549                  | 0.654                  |
|          | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 372000 | 1860        | 20.00               | 21.00               | 1.259                  | -0.03            | 0.460                  | 0.579                  |
| 49       | N2_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 376000 | 1880        | 20.19               | 21.00               | 1.205                  | -0.15            | 0.561                  | 0.676                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 167300 | 836.5       | 19.48               | 20.00               | 1.127                  | -0.11            | 0.107                  | 0.121                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 167300 | 836.5       | 19.39               | 20.00               | 1.151                  | -0.1             | 0.116                  | 0.134                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 167300 | 836.5       | 19.48               | 20.00               | 1.127                  | -0.14            | 0.154                  | 0.174                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 167300 | 836.5       | 19.39               | 20.00               | 1.151                  | -0.12            | 0.152                  | 0.175                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 167300 | 836.5       | 19.48               | 20.00               | 1.127                  | -0.04            | 0.226                  | 0.255                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 167300 | 836.5       | 19.39               | 20.00               | 1.151                  | -0.01            | 0.235                  | 0.271                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 166800 | 836.5       | 19.37               | 20.00               | 1.156                  | -0.01            | 0.242                  | 0.280                  |
| 50       | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 167800 | 839         | 19.36               | 20.00               | 1.159                  | 0.07             | 0.246                  | 0.285                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 167300 | 836.5       | 19.48               | 20.00               | 1.127                  | 0.05             | 0.002                  | 0.003                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 167300 | 836.5       | 19.39               | 20.00               | 1.151                  | -0.08            | 0.002                  | 0.003                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 167300 | 836.5       | 19.48               | 20.00               | 1.127                  | 0.02             | 0.002                  | 0.003                  |
|          | N5_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 167300 | 836.5       | 19.39               | 20.00               | 1.151                  | 0.08             | 0.002                  | 0.003                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 166800 | 834         | 22.66               | 23.30               | 1.159                  | -0.03            | 0.164                  | 0.191                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Front         | 10mm     | Reduced         | 166800 | 834         | 22.60               | 23.30               | 1.175                  | -0.04            | 0.149                  | 0.175                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 166800 | 834         | 22.66               | 23.30               | 1.159                  | -0.03            | 0.212                  | 0.246                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 10mm     | Reduced         | 166800 | 834         | 22.60               | 23.30               | 1.175                  | -0.06            | 0.215                  | 0.253                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 10mm     | Reduced         | 167300 | 836.5       | 22.58               | 23.30               | 1.180                  | 0.02             | 0.215                  | 0.254                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 10mm     | Reduced         | 167800 | 839         | 22.54               | 23.30               | 1.191                  | -0.07            | 0.215                  | 0.256                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 166800 | 834         | 22.66               | 23.30               | 1.159                  | -0.03            | 0.082                  | 0.095                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Left Side     | 10mm     | Reduced         | 166800 | 834         | 22.60               | 23.30               | 1.175                  | -0.17            | 0.079                  | 0.093                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 166800 | 834         | 22.66               | 23.30               | 1.159                  | -0.11            | 0.136                  | 0.158                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Right Side    | 10mm     | Reduced         | 166800 | 834         | 22.60               | 23.30               | 1.175                  | -0.17            | 0.139                  | 0.163                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 166800 | 834         | 22.66               | 23.30               | 1.159                  | -0.01            | 0.120                  | 0.139                  |
|          | N5_LAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Bottom Side   | 10mm     | Reduced         | 166800 | 834         | 22.60               | 23.30               | 1.175                  | 0.13             | 0.117                  | 0.137                  |



| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Front         | 10mm     | Reduced         | 528000 | 2640        | 19.34               | 19.50               | 1.038                  | 0.09             | 0.253                  | 0.262                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Front         | 10mm     | Reduced         | 528000 | 2640        | 19.31               | 19.50               | 1.045                  | 0.14             | 0.238                  | 0.248                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Back          | 10mm     | Reduced         | 528000 | 2640        | 19.34               | 19.50               | 1.038                  | -0.14            | 0.328                  | 0.340                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Back          | 10mm     | Reduced         | 528000 | 2640        | 19.31               | 19.50               | 1.045                  | -0.01            | 0.312                  | 0.326                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Left Side     | 10mm     | Reduced         | 528000 | 2640        | 19.34               | 19.50               | 1.038                  | 0.12             | 0.041                  | 0.042                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Left Side     | 10mm     | Reduced         | 528000 | 2640        | 19.31               | 19.50               | 1.045                  | 0.01             | 0.037                  | 0.038                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Right Side    | 10mm     | Reduced         | 528000 | 2640        | 19.34               | 19.50               | 1.038                  | 0.11             | 0.023                  | 0.024                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Right Side    | 10mm     | Reduced         | 528000 | 2640        | 19.31               | 19.50               | 1.045                  | -0.06            | 0.018                  | 0.019                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Top Side      | 10mm     | Reduced         | 528000 | 2640        | 19.34               | 19.50               | 1.038                  | 0.15             | 0.691                  | 0.717                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Top Side      | 10mm     | Reduced         | 509200 | 2546        | 18.61               | 19.50               | 1.227                  | 0.07             | 0.329                  | 0.404                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 137       | DFT-30 | Top Side      | 10mm     | Reduced         | 518600 | 2593        | 19.33               | 19.50               | 1.040                  | 0.13             | 0.527                  | 0.548                  |
| 51       | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Top Side      | 10mm     | Reduced         | 528000 | 2640        | 19.31               | 19.50               | 1.045                  | 0.19             | 0.687                  | 0.718                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Top Side      | 10mm     | Reduced         | 509200 | 2546        | 18.52               | 19.50               | 1.253                  | 0.11             | 0.342                  | 0.428                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Top Side      | 10mm     | Reduced         | 518600 | 2593        | 19.19               | 19.50               | 1.074                  | 0.16             | 0.466                  | 0.501                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 270     | 0         | DFT-30 | Top Side      | 10mm     | Reduced         | 528000 | 2640        | 19.24               | 19.50               | 1.062                  | 0.13             | 0.675                  | 0.717                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Front         | 10mm     | Reduced         | 518600 | 2593        | 20.33               | 21.00               | 1.167                  | 0.18             | 0.293                  | 0.342                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Front         | 10mm     | Reduced         | 518600 | 2593        | 20.09               | 21.00               | 1.233                  | 0.06             | 0.314                  | 0.387                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 10mm     | Reduced         | 518600 | 2593        | 20.33               | 21.00               | 1.167                  | -0.1             | 0.382                  | 0.446                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 10mm     | Reduced         | 509200 | 2546        | 20.15               | 21.00               | 1.216                  | -0.12            | 0.351                  | 0.427                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 10mm     | Reduced         | 528000 | 2640        | 20.05               | 21.00               | 1.245                  | -0.19            | 0.355                  | 0.442                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Back          | 10mm     | Reduced         | 518600 | 2593        | 20.09               | 21.00               | 1.233                  | -0.12            | 0.358                  | 0.441                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Left Side     | 10mm     | Reduced         | 518600 | 2593        | 20.33               | 21.00               | 1.167                  | -0.12            | 0.106                  | 0.124                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Left Side     | 10mm     | Reduced         | 518600 | 2593        | 20.09               | 21.00               | 1.233                  | 0.01             | 0.094                  | 0.116                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Right Side    | 10mm     | Reduced         | 518600 | 2593        | 20.33               | 21.00               | 1.167                  | -0.01            | 0.107                  | 0.125                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Right Side    | 10mm     | Reduced         | 518600 | 2593        | 20.09               | 21.00               | 1.233                  | 0.12             | 0.081                  | 0.100                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Bottom Side   | 10mm     | Reduced         | 518600 | 2593        | 20.33               | 21.00               | 1.167                  | 0                | 0.359                  | 0.419                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Bottom Side   | 10mm     | Reduced         | 518600 | 2593        | 20.09               | 21.00               | 1.233                  | -0.1             | 0.347                  | 0.428                  |



| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 349000 | 1745        | 18.64               | 20.00               | 1.368                  | 0.04             | 0.302                  | 0.413                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 349000 | 1745        | 18.62               | 20.00               | 1.374                  | 0.04             | 0.273                  | 0.375                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 349000 | 1745        | 18.64               | 20.00               | 1.368                  | -0.08            | 0.286                  | 0.391                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 349000 | 1745        | 18.62               | 20.00               | 1.374                  | -0.14            | 0.287                  | 0.395                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 349000 | 1745        | 18.64               | 20.00               | 1.368                  | -0.18            | 0.105                  | 0.143                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 349000 | 1745        | 18.62               | 20.00               | 1.374                  | -0.1             | 0.100                  | 0.137                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 349000 | 1745        | 18.64               | 20.00               | 1.368                  | -0.11            | 0.017                  | 0.023                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 349000 | 1745        | 18.62               | 20.00               | 1.374                  | -0.14            | 0.017                  | 0.023                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 349000 | 1745        | 18.64               | 20.00               | 1.368                  | 0.15             | 0.404                  | 0.553                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 349000 | 1745        | 18.62               | 20.00               | 1.374                  | 0.11             | 0.415                  | 0.570                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 344000 | 1720        | 18.59               | 20.00               | 1.384                  | 0.08             | 0.335                  | 0.463                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Top Side      | 10mm     | Reduced         | 354000 | 1770        | 18.52               | 20.00               | 1.406                  | -0.03            | 0.455                  | 0.639                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 100     | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 349000 | 1745        | 17.59               | 20.00               | 1.742                  | -0.01            | 0.359                  | 0.625                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 349000 | 1745        | 22.32               | 23.00               | 1.169                  | -0.02            | 0.425                  | 0.497                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 349000 | 1745        | 22.30               | 23.00               | 1.175                  | -0.18            | 0.426                  | 0.501                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 349000 | 1745        | 22.32               | 23.00               | 1.169                  | 0.11             | 0.494                  | 0.578                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 349000 | 1745        | 22.30               | 23.00               | 1.175                  | 0.1              | 0.496                  | 0.583                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 349000 | 1745        | 22.32               | 23.00               | 1.169                  | 0.17             | 0.191                  | 0.223                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 349000 | 1745        | 22.30               | 23.00               | 1.175                  | 0.19             | 0.190                  | 0.223                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 349000 | 1745        | 22.32               | 23.00               | 1.169                  | 0                | 0.126                  | 0.147                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 349000 | 1745        | 22.30               | 23.00               | 1.175                  | -0.1             | 0.125                  | 0.147                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 349000 | 1745        | 22.32               | 23.00               | 1.169                  | 0.16             | 0.642                  | 0.751                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 344000 | 1720        | 22.30               | 23.00               | 1.175                  | 0.05             | 0.667                  | 0.784                  |
| 52       | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 354000 | 1770        | 22.18               | 23.00               | 1.208                  | 0.04             | 0.661                  | 0.798                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 349000 | 1745        | 22.30               | 23.00               | 1.175                  | 0.13             | 0.628                  | 0.738                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 134600 | 673         | 19.28               | 20.00               | 1.180                  | -0.11            | 0.119                  | 0.140                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 134600 | 673         | 19.09               | 20.00               | 1.233                  | -0.06            | 0.121                  | 0.149                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 134600 | 673         | 19.28               | 20.00               | 1.180                  | -0.11            | 0.157                  | 0.185                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 134600 | 673         | 19.09               | 20.00               | 1.233                  | -0.13            | 0.141                  | 0.174                  |
| 53       | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 134600 | 673         | 19.28               | 20.00               | 1.180                  | -0.14            | 0.193                  | 0.227                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 136100 | 680.5       | 19.11               | 20.00               | 1.227                  | -0.12            | 0.185                  | 0.227                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 137600 | 688         | 19.05               | 20.00               | 1.245                  | -0.19            | 0.159                  | 0.198                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 134600 | 673         | 19.09               | 20.00               | 1.233                  | -0.16            | 0.184                  | 0.226                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 134600 | 673         | 19.28               | 20.00               | 1.180                  | 0.17             | 0.013                  | 0.016                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 134600 | 673         | 19.09               | 20.00               | 1.233                  | 0.15             | 0.011                  | 0.014                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Top Side      | 10mm     | Reduced         | 134600 | 673         | 19.28               | 20.00               | 1.180                  | -0.05            | 0.002                  | 0.003                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Top Side      | 10mm     | Reduced         | 134600 | 673         | 19.09               | 20.00               | 1.233                  | -0.04            | 0.002                  | 0.003                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 10mm     | Reduced         | 134600 | 673         | 20.74               | 22.30               | 1.432                  | -0.1             | 0.108                  | 0.155                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 10mm     | Reduced         | 134600 | 673         | 20.65               | 22.30               | 1.462                  | -0.09            | 0.098                  | 0.143                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 134600 | 673         | 20.74               | 22.30               | 1.432                  | -0.03            | 0.136                  | 0.194                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 136100 | 680.5       | 20.56               | 22.30               | 1.493                  | 0                | 0.128                  | 0.191                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 10mm     | Reduced         | 137600 | 688         | 20.53               | 22.30               | 1.503                  | -0.03            | 0.126                  | 0.189                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 10mm     | Reduced         | 134600 | 673         | 20.65               | 22.30               | 1.462                  | 0.01             | 0.131                  | 0.191                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Left Side     | 10mm     | Reduced         | 134600 | 673         | 20.74               | 22.30               | 1.432                  | 0.03             | 0.048                  | 0.068                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Left Side     | 10mm     | Reduced         | 134600 | 673         | 20.65               | 22.30               | 1.462                  | -0.11            | 0.043                  | 0.062                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Right Side    | 10mm     | Reduced         | 134600 | 673         | 20.74               | 22.30               | 1.432                  | -0.11            | 0.095                  | 0.137                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Right Side    | 10mm     | Reduced         | 134600 | 673         | 20.65               | 22.30               | 1.462                  | -0.01            | 0.090                  | 0.132                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 134600 | 673         | 20.74               | 22.30               | 1.432                  | -0.19            | 0.060                  | 0.086                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Bottom Side   | 10mm     | Reduced         | 134600 | 673         | 20.65               | 22.30               | 1.462                  | -0.17            | 0.065                  | 0.095                  |

**<WLAN SAR>**

| Plot No. | Band       | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 54       | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 10mm     | 1                  | 11  | 2462        | 15.91               | 17.91               | 1.585                  | 100          | 1.000                     | -0.1             | 0.121                  | 0.192                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 1                  | 11  | 2462        | 15.91               | 17.91               | 1.585                  | 100          | 1.000                     | 0.16             | 0.684                  | 1.084                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 10mm     | 1                  | 11  | 2462        | 15.91               | 17.91               | 1.585                  | 100          | 1.000                     | 0                | 0.276                  | 0.437                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 10mm     | 1                  | 11  | 2462        | 15.91               | 17.91               | 1.585                  | 100          | 1.000                     | -0.11            | 0.150                  | 0.238                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 1                  | 1   | 2412        | 15.71               | 17.71               | 1.585                  | 100          | 1.000                     | 0.04             | 0.526                  | 0.834                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 1                  | 6   | 2437        | 15.66               | 17.66               | 1.585                  | 100          | 1.000                     | 0.11             | 0.638                  | 1.011                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 10mm     | 2                  | 11  | 2462        | 13.87               | 15.87               | 1.585                  | 100          | 1.000                     | 0.06             | 0.077                  | 0.122                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 2                  | 11  | 2462        | 13.87               | 15.87               | 1.585                  | 100          | 1.000                     | 0.09             | 0.366                  | 0.580                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 10mm     | 2                  | 11  | 2462        | 13.87               | 15.87               | 1.585                  | 100          | 1.000                     | -0.05            | 0.150                  | 0.238                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 10mm     | 2                  | 11  | 2462        | 13.87               | 15.87               | 1.585                  | 100          | 1.000                     | 0.04             | 0.100                  | 0.158                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 2                  | 1   | 2412        | 13.67               | 15.67               | 1.585                  | 100          | 1.000                     | 0.14             | 0.334                  | 0.529                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 2                  | 6   | 2437        | 13.61               | 15.61               | 1.585                  | 100          | 1.000                     | -0.07            | 0.390                  | 0.618                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 10mm     | 3                  | 11  | 2462        | 10.91               | 12.91               | 1.585                  | 100          | 1.000                     | 0.06             | 0.039                  | 0.061                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 3                  | 11  | 2462        | 10.91               | 12.91               | 1.585                  | 100          | 1.000                     | 0.05             | 0.185                  | 0.293                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 10mm     | 3                  | 11  | 2462        | 10.91               | 12.91               | 1.585                  | 100          | 1.000                     | 0.11             | 0.076                  | 0.120                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 10mm     | 3                  | 11  | 2462        | 10.91               | 12.91               | 1.585                  | 100          | 1.000                     | -0.18            | 0.051                  | 0.081                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 3                  | 1   | 2412        | 10.71               | 12.71               | 1.585                  | 100          | 1.000                     | 0.1              | 0.169                  | 0.268                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 10mm     | 3                  | 6   | 2437        | 10.66               | 12.66               | 1.585                  | 100          | 1.000                     | -0.04            | 0.198                  | 0.314                  |
| 55       | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 10mm     | 1                  | 38  | 5190        | 17.73               | 19.73               | 1.585                  | 98.08        | 1.020                     | -0.14            | 0.013                  | 0.021                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 1                  | 38  | 5190        | 17.73               | 19.73               | 1.585                  | 98.08        | 1.020                     | 0.15             | 0.406                  | 0.656                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 1                  | 38  | 5190        | 17.73               | 19.73               | 1.585                  | 98.08        | 1.020                     | -0.08            | 0.154                  | 0.249                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 1                  | 38  | 5190        | 17.73               | 19.73               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.108                  | 0.175                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 1                  | 46  | 5230        | 17.72               | 19.72               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.531                  | 0.858                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 10mm     | 2                  | 38  | 5190        | 16.66               | 18.66               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.002                  | 0.003                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 2                  | 38  | 5190        | 16.66               | 18.66               | 1.585                  | 98.08        | 1.020                     | 0.04             | 0.261                  | 0.422                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 2                  | 38  | 5190        | 16.66               | 18.66               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.231                  | 0.373                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 2                  | 38  | 5190        | 16.66               | 18.66               | 1.585                  | 98.08        | 1.020                     | -0.08            | 0.025                  | 0.040                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 2                  | 46  | 5230        | 16.64               | 18.64               | 1.585                  | 98.08        | 1.020                     | -0.01            | 0.362                  | 0.585                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 10mm     | 3                  | 38  | 5190        | 13.75               | 15.75               | 1.585                  | 98.08        | 1.020                     | -0.1             | 0.001                  | 0.002                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 3                  | 38  | 5190        | 13.75               | 15.75               | 1.585                  | 98.08        | 1.020                     | 0.05             | 0.131                  | 0.212                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 3                  | 38  | 5190        | 13.75               | 15.75               | 1.585                  | 98.08        | 1.020                     | 0                | 0.116                  | 0.188                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 3                  | 38  | 5190        | 13.75               | 15.75               | 1.585                  | 98.08        | 1.020                     | -0.11            | 0.013                  | 0.021                  |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 10mm     | 3                  | 46  | 5230        | 13.73               | 15.73               | 1.585                  | 98.08        | 1.020                     | 0.04             | 0.181                  | 0.293                  |

| Plot No. | Band     | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | 1                  | 151 | 5755        | 14.52               | 16.52               | 1.585                  | 98.08        | 1.020                     | -0.12            | 0.010                  | 0.016                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 1                  | 151 | 5755        | 14.52               | 16.52               | 1.585                  | 98.08        | 1.020                     | 0.13             | 0.546                  | 0.883                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 1                  | 151 | 5755        | 14.52               | 16.52               | 1.585                  | 98.08        | 1.020                     | 0.07             | 0.153                  | 0.247                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 1                  | 151 | 5755        | 14.52               | 16.52               | 1.585                  | 98.08        | 1.020                     | -0.02            | 0.109                  | 0.176                  |
| 56       | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 1                  | 159 | 5795        | 14.24               | 16.24               | 1.585                  | 98.08        | 1.020                     | 0.07             | 0.655                  | 1.059                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | 2                  | 151 | 5755        | 13.49               | 15.49               | 1.585                  | 98.08        | 1.020                     | 0.12             | 0.002                  | 0.003                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 2                  | 151 | 5755        | 13.49               | 15.49               | 1.585                  | 98.08        | 1.020                     | 0.11             | 0.340                  | 0.550                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 2                  | 151 | 5755        | 13.49               | 15.49               | 1.585                  | 98.08        | 1.020                     | -0.09            | 0.417                  | 0.674                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 2                  | 151 | 5755        | 13.49               | 15.49               | 1.585                  | 98.08        | 1.020                     | 0.07             | 0.067                  | 0.108                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 2                  | 159 | 5795        | 13.15               | 15.15               | 1.585                  | 98.08        | 1.020                     | 0.01             | 0.329                  | 0.532                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | 3                  | 151 | 5755        | 11.52               | 13.52               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.001                  | 0.002                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 3                  | 151 | 5755        | 11.52               | 13.52               | 1.585                  | 98.08        | 1.020                     | -0.02            | 0.212                  | 0.343                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 10mm     | 3                  | 151 | 5755        | 11.52               | 13.52               | 1.585                  | 98.08        | 1.020                     | 0.11             | 0.260                  | 0.420                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | 3                  | 151 | 5755        | 11.52               | 13.52               | 1.585                  | 98.08        | 1.020                     | 0                | 0.042                  | 0.068                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | 3                  | 159 | 5795        | 11.24               | 13.24               | 1.585                  | 98.08        | 1.020                     | 0.1              | 0.208                  | 0.336                  |

### <Bluetooth SAR>

| Plot No. | Band      | Mode      | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-----------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Front         | 10mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | 0.11             | 0.030                  | 0.048                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | 0.13             | 0.124                  | 0.197                  |
|          | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | -0.08            | 0.080                  | 0.127                  |
| 57       | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | 0.1              | 0.195                  | 0.309                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Chain 0 | Full            | 0   | 2402        | 13.05               | 15.05               | 1.585                  | -0.02            | 0.156                  | 0.247                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Chain 0 | Full            | 78  | 2480        | 12.10               | 14.10               | 1.585                  | 0.06             | 0.168                  | 0.266                  |
|          | Bluetooth | DH5 1Mbps | Front         | 10mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | 0.04             | 0.026                  | 0.041                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.02            | 0.120                  | 0.190                  |
|          | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | 0.06             | 0.084                  | 0.133                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.09            | 0.034                  | 0.054                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Chain 1 | Full            | 0   | 2402        | 7.72                | 9.72                | 1.585                  | -0.11            | 0.096                  | 0.152                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Chain 1 | Full            | 78  | 2480        | 6.84                | 8.84                | 1.585                  | -0.07            | 0.102                  | 0.162                  |

### 17.3 Body Worn Accessory SAR

#### <GSM SAR>

| Plot No. | Band        | Mode             | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_UAT  | GPRS(3 Tx slots) | Front         | 15mm     | Full            | 128 | 824.2       | 28.54               | 29.80               | 1.337                  | 0.06             | 0.233                  | 0.311                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 128 | 824.2       | 28.54               | 29.80               | 1.337                  | -0.04            | 0.246                  | 0.329                  |
| 58       | GSM850_UAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 189 | 836.4       | 28.44               | 29.80               | 1.368                  | -0.07            | 0.307                  | 0.420                  |
|          | GSM850_UAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 251 | 848.8       | 28.39               | 29.80               | 1.384                  | 0.01             | 0.301                  | 0.416                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Front         | 15mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.03             | 0.164                  | 0.212                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 128 | 824.2       | 28.68               | 29.80               | 1.294                  | 0.06             | 0.223                  | 0.289                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 189 | 836.4       | 28.62               | 29.80               | 1.312                  | -0.15            | 0.270                  | 0.354                  |
|          | GSM850_LAT  | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 251 | 848.8       | 28.54               | 29.80               | 1.337                  | 0.04             | 0.275                  | 0.368                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Front         | 15mm     | Full            | 661 | 1880        | 24.19               | 24.70               | 1.125                  | 0.12             | 0.258                  | 0.290                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 661 | 1880        | 24.19               | 24.70               | 1.125                  | -0.01            | 0.267                  | 0.300                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 512 | 1850.2      | 23.87               | 24.70               | 1.211                  | -0.06            | 0.227                  | 0.275                  |
|          | GSM1900_UAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 810 | 1909.8      | 24.02               | 24.70               | 1.169                  | 0.07             | 0.274                  | 0.320                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Front         | 15mm     | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | 0.04             | 0.231                  | 0.276                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 661 | 1880        | 25.72               | 26.50               | 1.197                  | -0.14            | 0.239                  | 0.286                  |
|          | GSM1900_LAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 512 | 1850.2      | 25.52               | 26.50               | 1.253                  | 0.05             | 0.212                  | 0.266                  |
| 59       | GSM1900_LAT | GPRS(3 Tx slots) | Back          | 15mm     | Full            | 810 | 1909.8      | 25.67               | 26.50               | 1.211                  | 0.18             | 0.290                  | 0.351                  |

#### <WCDMA SAR>

| Plot No. | Band         | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA V_UAT  | RMC 12.2Kbps | Front         | 15mm     | Full            | 4182 | 836.4       | 23.95               | 24.80               | 1.216                  | 0.04             | 0.140                  | 0.170                  |
| 60       | WCDMA V_UAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4182 | 836.4       | 23.95               | 24.80               | 1.216                  | -0.19            | 0.329                  | 0.400                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4132 | 826.4       | 23.93               | 24.80               | 1.222                  | 0.08             | 0.326                  | 0.398                  |
|          | WCDMA V_UAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4233 | 846.6       | 23.85               | 24.80               | 1.245                  | -0.04            | 0.318                  | 0.396                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Front         | 15mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | 0.02             | 0.086                  | 0.101                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4182 | 836.4       | 24.12               | 24.80               | 1.169                  | -0.13            | 0.302                  | 0.353                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | 0.04             | 0.301                  | 0.354                  |
|          | WCDMA V_LAT  | RMC 12.2Kbps | Back          | 15mm     | Full            | 4233 | 846.6       | 24.10               | 24.80               | 1.175                  | 0.17             | 0.287                  | 0.337                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Front         | 15mm     | Full            | 1413 | 1732.6      | 22.08               | 23.00               | 1.236                  | 0.06             | 0.311                  | 0.384                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1413 | 1732.6      | 22.08               | 23.00               | 1.236                  | 0.08             | 0.350                  | 0.433                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1312 | 1712.4      | 21.97               | 23.00               | 1.268                  | -0.19            | 0.303                  | 0.384                  |
|          | WCDMA IV_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1513 | 1752.6      | 22.04               | 23.00               | 1.247                  | 0.03             | 0.364                  | 0.454                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Front         | 15mm     | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | 0.04             | 0.476                  | 0.574                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1413 | 1732.6      | 23.99               | 24.80               | 1.205                  | -0.05            | 0.481                  | 0.580                  |
| 61       | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1312 | 1712.4      | 23.94               | 24.80               | 1.219                  | 0.1              | 0.513                  | 0.625                  |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 1513 | 1752.6      | 23.97               | 24.80               | 1.211                  | 0.06             | 0.464                  | 0.562                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Front         | 15mm     | Full            | 9400 | 1880        | 22.37               | 23.00               | 1.156                  | 0.12             | 0.319                  | 0.369                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9400 | 1880        | 22.37               | 23.00               | 1.156                  | -0.03            | 0.361                  | 0.417                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9262 | 1852.4      | 22.20               | 23.00               | 1.202                  | 0.05             | 0.340                  | 0.409                  |
|          | WCDMA II_UAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9538 | 1907.6      | 22.21               | 23.00               | 1.199                  | -0.01            | 0.338                  | 0.405                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Front         | 15mm     | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.07            | 0.552                  | 0.619                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9400 | 1880        | 24.30               | 24.80               | 1.122                  | -0.13            | 0.571                  | 0.641                  |
|          | WCDMA II_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9262 | 1852.4      | 24.10               | 24.80               | 1.175                  | 0.05             | 0.458                  | 0.538                  |
| 62       | WCDMA II_LAT | RMC 12.2Kbps | Back          | 15mm     | Full            | 9538 | 1907.6      | 24.18               | 24.80               | 1.153                  | 0.09             | 0.557                  | 0.642                  |

**<CDMA SAR>**

| Plot No. | Band              | Mode             | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|------------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | CDMA2000 BC0_UAT  | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 384  | 836.52      | 23.59               | 24.80               | 1.321                  | -0.05            | 0.148                  | 0.196                  |
|          | CDMA2000 BC0_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 384  | 836.52      | 23.59               | 24.80               | 1.321                  | -0.1             | 0.185                  | 0.244                  |
|          | CDMA2000 BC0_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 1013 | 824.7       | 23.57               | 24.80               | 1.327                  | -0.03            | 0.194                  | 0.258                  |
|          | CDMA2000 BC0_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 777  | 848.31      | 23.53               | 24.80               | 1.340                  | 0.02             | 0.186                  | 0.249                  |
|          | CDMA2000 BC0_LAT  | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 384  | 836.52      | 23.87               | 24.80               | 1.239                  | 0.13             | 0.174                  | 0.216                  |
| 63       | CDMA2000 BC0_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 384  | 836.52      | 23.87               | 24.80               | 1.238                  | 0.01             | 0.264                  | 0.327                  |
|          | CDMA2000 BC0_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 1013 | 824.7       | 23.82               | 24.80               | 1.253                  | 0.05             | 0.260                  | 0.326                  |
|          | CDMA2000 BC0_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 777  | 848.31      | 23.82               | 24.80               | 1.253                  | 0.12             | 0.260                  | 0.326                  |
|          | CDMA2000 BC10_UAT | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 580  | 820.5       | 23.75               | 24.80               | 1.274                  | -0.07            | 0.122                  | 0.155                  |
|          | CDMA2000 BC10_UAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 580  | 820.5       | 23.75               | 24.80               | 1.274                  | -0.06            | 0.153                  | 0.195                  |
|          | CDMA2000 BC10_UAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 476  | 817.9       | 23.71               | 24.80               | 1.285                  | 0.14             | 0.154                  | 0.198                  |
|          | CDMA2000 BC10_UAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 684  | 823.1       | 23.67               | 24.80               | 1.297                  | 0.12             | 0.151                  | 0.196                  |
|          | CDMA2000 BC10_LAT | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 580  | 820.5       | 23.97               | 24.80               | 1.211                  | -0.08            | 0.200                  | 0.242                  |
|          | CDMA2000 BC10_LAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 580  | 820.5       | 23.97               | 24.80               | 1.211                  | 0.06             | 0.266                  | 0.322                  |
| 64       | CDMA2000 BC10_LAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 476  | 817.9       | 23.88               | 24.80               | 1.236                  | 0.06             | 0.263                  | 0.325                  |
|          | CDMA2000 BC10_LAT | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 684  | 823.1       | 23.94               | 24.80               | 1.219                  | 0.01             | 0.265                  | 0.323                  |
|          | CDMA2000 BC1_UAT  | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 600  | 1880        | 21.69               | 23.00               | 1.352                  | -0.03            | 0.071                  | 0.096                  |
|          | CDMA2000 BC1_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 600  | 1880        | 21.69               | 23.00               | 1.352                  | -0.19            | 0.079                  | 0.107                  |
|          | CDMA2000 BC1_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 25   | 1851.25     | 21.44               | 23.00               | 1.432                  | -0.15            | 0.076                  | 0.109                  |
|          | CDMA2000 BC1_UAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 1175 | 1908.75     | 21.53               | 23.00               | 1.403                  | -0.07            | 0.078                  | 0.109                  |
|          | CDMA2000 BC1_LAT  | RC3 SO32 (F+SCH) | Front         | 15mm     | Full            | 600  | 1880        | 23.76               | 24.80               | 1.271                  | 0.07             | 0.539                  | 0.685                  |
|          | CDMA2000 BC1_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 600  | 1880        | 23.76               | 24.80               | 1.271                  | -0.04            | 0.542                  | 0.689                  |
|          | CDMA2000 BC1_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 25   | 1851.25     | 23.48               | 24.80               | 1.355                  | 0.06             | 0.460                  | 0.623                  |
| 65       | CDMA2000 BC1_LAT  | RC3 SO32 (F+SCH) | Back          | 15mm     | Full            | 1175 | 1908.75     | 23.64               | 24.80               | 1.306                  | 0.13             | 0.600                  | 0.784                  |

**<FDD LTE SAR>**

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.03             | 0.232                  | 0.240                  |
| 66       | LTE Band 71_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.07            | 0.276                  | 0.286                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | 0.08             | 0.207                  | 0.213                  |
|          | LTE Band 71_UAT | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 133322 | 673         | 22.67               | 22.80               | 1.030                  | -0.03            | 0.253                  | 0.261                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | 0.09             | 0.198                  | 0.205                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 133322 | 673         | 23.65               | 23.80               | 1.035                  | -0.14            | 0.260                  | 0.269                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.01             | 0.161                  | 0.165                  |
|          | LTE Band 71_LAT | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 133322 | 673         | 22.69               | 22.80               | 1.026                  | 0.11             | 0.234                  | 0.240                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Front         | 15mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | 0.06             | 0.286                  | 0.345                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 1       | 25        | Back          | 15mm     | Full            | 23095  | 707.5       | 22.98               | 23.80               | 1.208                  | -0.16            | 0.318                  | 0.384                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | 0.08             | 0.223                  | 0.269                  |
|          | LTE Band 12_UAT | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 23095  | 707.5       | 21.99               | 22.80               | 1.205                  | -0.03            | 0.273                  | 0.329                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Front         | 15mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | 0.05             | 0.235                  | 0.286                  |
| 67       | LTE Band 12_LAT | 10M      | QPSK       | 1       | 25        | Back          | 15mm     | Full            | 23095  | 707.5       | 22.94               | 23.80               | 1.219                  | -0.03            | 0.323                  | 0.394                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | 0.09             | 0.192                  | 0.226                  |
|          | LTE Band 12_LAT | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 23095  | 707.5       | 22.10               | 22.80               | 1.175                  | -0.11            | 0.292                  | 0.343                  |



| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 13_UAT  | 10M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 23230  | 782         | 22.69               | 23.80               | 1.291                  | 0.01             | 0.273                  | 0.353                  |
| 68       | LTE Band 13_UAT  | 10M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 23230  | 782         | 22.69               | 23.80               | 1.291                  | 0.13             | 0.316                  | 0.408                  |
|          | LTE Band 13_UAT  | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 23230  | 782         | 21.83               | 22.80               | 1.250                  | 0.05             | 0.224                  | 0.280                  |
|          | LTE Band 13_UAT  | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 23230  | 782         | 21.83               | 22.80               | 1.250                  | -0.03            | 0.262                  | 0.328                  |
|          | LTE Band 13_LAT  | 10M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | 0.12             | 0.233                  | 0.285                  |
|          | LTE Band 13_LAT  | 10M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 23230  | 782         | 22.92               | 23.80               | 1.225                  | 0.08             | 0.316                  | 0.387                  |
|          | LTE Band 13_LAT  | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | 0.06             | 0.186                  | 0.222                  |
|          | LTE Band 13_LAT  | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 23230  | 782         | 22.03               | 22.80               | 1.194                  | 0.09             | 0.228                  | 0.272                  |
|          | LTE Band 5_UAT   | 10M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 20525  | 836.5       | 22.61               | 23.80               | 1.315                  | 0.01             | 0.235                  | 0.309                  |
| 69       | LTE Band 5_UAT   | 10M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 20525  | 836.5       | 22.61               | 23.80               | 1.315                  | -0.12            | 0.288                  | 0.379                  |
|          | LTE Band 5_UAT   | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 20525  | 836.5       | 21.62               | 22.80               | 1.312                  | 0.06             | 0.189                  | 0.248                  |
|          | LTE Band 5_UAT   | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 20525  | 836.5       | 21.62               | 22.80               | 1.312                  | -0.09            | 0.229                  | 0.300                  |
|          | LTE Band 5_LAT   | 10M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 20525  | 836.5       | 22.84               | 23.80               | 1.247                  | -0.07            | 0.188                  | 0.235                  |
|          | LTE Band 5_LAT   | 10M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 20525  | 836.5       | 22.84               | 23.80               | 1.247                  | -0.12            | 0.265                  | 0.331                  |
|          | LTE Band 5_LAT   | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 20525  | 836.5       | 21.91               | 22.80               | 1.227                  | 0.13             | 0.156                  | 0.191                  |
|          | LTE Band 5_LAT   | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 20525  | 836.5       | 21.91               | 22.80               | 1.227                  | -0.06            | 0.217                  | 0.266                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 26865  | 831.5       | 22.81               | 23.80               | 1.256                  | 0.08             | 0.271                  | 0.340                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26865  | 831.5       | 22.81               | 23.80               | 1.256                  | -0.01            | 0.284                  | 0.357                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26765  | 821.5       | 22.76               | 23.80               | 1.271                  | 0.06             | 0.302                  | 0.384                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26915  | 836.5       | 22.73               | 23.80               | 1.279                  | -0.05            | 0.317                  | 0.406                  |
| 70       | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26965  | 841.5       | 22.78               | 23.80               | 1.265                  | -0.14            | 0.335                  | 0.424                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Front         | 15mm     | Full            | 26865  | 831.5       | 21.88               | 22.80               | 1.236                  | 0.11             | 0.216                  | 0.267                  |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Back          | 15mm     | Full            | 26865  | 831.5       | 21.88               | 22.80               | 1.236                  | 0.06             | 0.266                  | 0.329                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | 0.16             | 0.207                  | 0.249                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26865  | 831.5       | 22.99               | 23.80               | 1.205                  | -0.05            | 0.279                  | 0.336                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26765  | 821.5       | 22.96               | 23.80               | 1.213                  | -0.09            | 0.283                  | 0.343                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26915  | 836.5       | 22.93               | 23.80               | 1.222                  | 0.01             | 0.330                  | 0.403                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26965  | 841.5       | 22.95               | 23.80               | 1.216                  | 0.14             | 0.324                  | 0.394                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Front         | 15mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | 0.12             | 0.157                  | 0.186                  |
|          | LTE Band 26_LAT  | 15M      | QPSK       | 36      | 20        | Back          | 15mm     | Full            | 26865  | 831.5       | 22.07               | 22.80               | 1.183                  | 0.06             | 0.216                  | 0.256                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.12            | 0.164                  | 0.219                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132322 | 1745        | 20.75               | 22.00               | 1.334                  | -0.04            | 0.235                  | 0.313                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132072 | 1720        | 20.61               | 22.00               | 1.377                  | 0.07             | 0.137                  | 0.189                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132572 | 1770        | 20.73               | 22.00               | 1.340                  | 0.11             | 0.180                  | 0.241                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | 0.01             | 0.131                  | 0.171                  |
|          | LTE Band 66_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 132322 | 1745        | 19.84               | 21.00               | 1.306                  | 0.06             | 0.142                  | 0.185                  |
|          | LTE Band 66C_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132572 | 1770        | 20.97               | 22.00               | 1.268                  | -0.09            | 0.239                  | 0.303                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 132322 | 1745        | 23.03               | 23.80               | 1.194                  | -0.01            | 0.488                  | 0.583                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132322 | 1745        | 23.03               | 23.80               | 1.194                  | 0.11             | 0.495                  | 0.591                  |
| 71       | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132072 | 1720        | 22.67               | 23.80               | 1.297                  | 0.06             | 0.502                  | 0.651                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132572 | 1770        | 23.90               | 23.80               | 0.977                  | 0.05             | 0.428                  | 0.418                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 132322 | 1745        | 22.18               | 22.80               | 1.153                  | 0.12             | 0.405                  | 0.467                  |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 132322 | 1745        | 22.18               | 22.80               | 1.153                  | 0.02             | 0.413                  | 0.476                  |
|          | LTE Band 66C_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 132572 | 1770        | 22.75               | 23.80               | 1.274                  | 0.08             | 0.485                  | 0.618                  |

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 26340 | 1880        | 21.23               | 22.00               | 1.194                  | -0.06            | 0.296                  | 0.353                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26340 | 1880        | 21.23               | 22.00               | 1.194                  | 0.02             | 0.387                  | 0.462                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26140 | 1860        | 21.15               | 22.00               | 1.216                  | 0.14             | 0.292                  | 0.355                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26590 | 1905        | 21.19               | 22.00               | 1.205                  | 0.11             | 0.269                  | 0.324                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 26340 | 1880        | 20.36               | 21.00               | 1.159                  | 0.07             | 0.233                  | 0.270                  |
|          | LTE Band 25_UAT | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 26340 | 1880        | 20.36               | 21.00               | 1.159                  | 0.02             | 0.230                  | 0.267                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 26340 | 1880        | 23.23               | 23.80               | 1.140                  | 0.12             | 0.575                  | 0.656                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26340 | 1880        | 23.23               | 23.80               | 1.140                  | -0.06            | 0.579                  | 0.660                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26140 | 1860        | 23.13               | 23.80               | 1.167                  | 0.08             | 0.564                  | 0.658                  |
| 72       | LTE Band 25_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 26590 | 1905        | 23.21               | 23.80               | 1.146                  | 0.01             | 0.584                  | 0.669                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 26340 | 1880        | 22.34               | 22.80               | 1.112                  | 0.06             | 0.477                  | 0.530                  |
|          | LTE Band 25_LAT | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 26340 | 1880        | 22.34               | 22.80               | 1.112                  | -0.09            | 0.490                  | 0.545                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 27710 | 2310        | 21.08               | 21.80               | 1.180                  | 0.17             | 0.346                  | 0.408                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 27710 | 2310        | 21.08               | 21.80               | 1.180                  | 0.11             | 0.387                  | 0.457                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 27710 | 2310        | 20.09               | 20.80               | 1.178                  | -0.09            | 0.294                  | 0.346                  |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 27710 | 2310        | 20.09               | 20.80               | 1.178                  | -0.06            | 0.321                  | 0.378                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | 0.16             | 0.580                  | 0.674                  |
| 73       | LTE Band 30_LAT | 10M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 27710 | 2310        | 23.15               | 23.80               | 1.161                  | 0.03             | 0.643                  | 0.747                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Front         | 15mm     | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | 0.01             | 0.154                  | 0.179                  |
|          | LTE Band 30_LAT | 10M      | QPSK       | 25      | 12        | Back          | 15mm     | Full            | 27710 | 2310        | 22.15               | 22.80               | 1.161                  | 0.14             | 0.163                  | 0.189                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 20850 | 2510        | 21.26               | 21.80               | 1.132                  | 0.1              | 0.357                  | 0.404                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 20850 | 2510        | 21.26               | 21.80               | 1.132                  | -0.03            | 0.424                  | 0.480                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 21100 | 2535        | 21.16               | 21.80               | 1.159                  | -0.05            | 0.375                  | 0.435                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 21350 | 2560        | 21.09               | 21.80               | 1.178                  | 0.12             | 0.363                  | 0.427                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 20850 | 2510        | 20.37               | 20.80               | 1.104                  | 0.09             | 0.303                  | 0.335                  |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 20850 | 2510        | 20.37               | 20.80               | 1.104                  | 0.02             | 0.345                  | 0.381                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Front         | 15mm     | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | -0.06            | 0.581                  | 0.614                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 20850 | 2510        | 23.56               | 23.80               | 1.057                  | 0.16             | 0.708                  | 0.748                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 21100 | 2535        | 23.46               | 23.80               | 1.081                  | 0.05             | 0.679                  | 0.734                  |
| 74       | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 21350 | 2560        | 23.37               | 23.80               | 1.104                  | -0.17            | 0.710                  | 0.784                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | -0.03            | 0.490                  | 0.505                  |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 20850 | 2510        | 22.67               | 22.80               | 1.030                  | 0.02             | 0.532                  | 0.548                  |



## &lt;TDD LTE SAR&gt;

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 40620 | 2593        | 21.47               | 21.80               | 1.079                  | 62.9         | 1.006                     | 0.06             | 0.203                  | 0.220                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40620 | 2593        | 21.47               | 21.80               | 1.079                  | 62.9         | 1.006                     | 0.09             | 0.266                  | 0.289                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 39750 | 2506        | 21.43               | 21.80               | 1.089                  | 62.9         | 1.006                     | 0.02             | 0.350                  | 0.383                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40185 | 2549.5      | 21.35               | 21.80               | 1.109                  | 62.9         | 1.006                     | -0.01            | 0.243                  | 0.271                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41055 | 2636.5      | 21.27               | 21.80               | 1.130                  | 62.9         | 1.006                     | 0.03             | 0.173                  | 0.197                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41490 | 2680        | 21.15               | 21.80               | 1.161                  | 62.9         | 1.006                     | 0.01             | 0.140                  | 0.164                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 40620 | 2593        | 20.29               | 20.80               | 1.125                  | 62.9         | 1.006                     | 0.12             | 0.163                  | 0.184                  |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 40620 | 2593        | 20.29               | 20.80               | 1.125                  | 62.9         | 1.006                     | -0.06            | 0.179                  | 0.203                  |
|          | LTE Band 41C_UAT       | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 41055 | 2636.5      | 21.79               | 21.80               | 1.002                  | 62.9         | 1.006                     | 0.06             | 0.341                  | 0.344                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | 0.03             | 0.016                  | 0.017                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | -0.01            | 0.206                  | 0.217                  |
| 75       | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40620 | 2593        | 23.60               | 23.80               | 1.047                  | 62.9         | 1.006                     | -0.06            | 0.479                  | 0.505                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 39750 | 2506        | 23.58               | 23.80               | 1.052                  | 62.9         | 1.006                     | 0.12             | 0.175                  | 0.185                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40185 | 2549.5      | 23.57               | 23.80               | 1.054                  | 62.9         | 1.006                     | 0.05             | 0.207                  | 0.220                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41055 | 2636.5      | 23.45               | 23.80               | 1.084                  | 62.9         | 1.006                     | -0.15            | 0.361                  | 0.394                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41490 | 2680        | 23.30               | 23.80               | 1.122                  | 62.9         | 1.006                     | 0.11             | 0.234                  | 0.264                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | 0.09             | 0.129                  | 0.134                  |
|          | LTE Band 41_LAT        | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 40620 | 2593        | 22.65               | 22.80               | 1.035                  | 62.9         | 1.006                     | -0.15            | 0.161                  | 0.168                  |
|          | LTE Band 41C_LAT       | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 41490 | 2680        | 23.79               | 23.80               | 1.002                  | 62.9         | 1.006                     | 0.01             | 0.481                  | 0.485                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 40620 | 2593        | 23.84               | 24.30               | 1.112                  | 42.9         | 1.009                     | 0.01             | 0.255                  | 0.286                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40620 | 2593        | 23.84               | 24.30               | 1.112                  | 42.9         | 1.009                     | 0.14             | 0.278                  | 0.312                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 39750 | 2506        | 23.73               | 24.30               | 1.140                  | 42.9         | 1.009                     | -0.05            | 0.335                  | 0.385                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40185 | 2549.5      | 23.77               | 24.30               | 1.130                  | 42.9         | 1.009                     | -0.01            | 0.287                  | 0.327                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41055 | 2636.5      | 23.65               | 24.30               | 1.161                  | 42.9         | 1.009                     | 0.03             | 0.250                  | 0.293                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41490 | 2680        | 23.64               | 24.30               | 1.164                  | 42.9         | 1.009                     | -0.14            | 0.220                  | 0.258                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 40620 | 2593        | 22.93               | 23.30               | 1.089                  | 42.9         | 1.009                     | 0.12             | 0.232                  | 0.255                  |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 40620 | 2593        | 22.93               | 23.30               | 1.089                  | 42.9         | 1.009                     | 0.08             | 0.250                  | 0.275                  |
|          | LTE Band 41C(HPUE)_UAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 40620 | 2593        | 23.15               | 24.30               | 1.303                  | 42.9         | 1.009                     | 0.02             | 0.271                  | 0.356                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 40620 | 2593        | 25.72               | 26.30               | 1.143                  | 42.9         | 1.009                     | 0.12             | 0.206                  | 0.238                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40620 | 2593        | 25.72               | 26.30               | 1.143                  | 42.9         | 1.009                     | 0.06             | 0.249                  | 0.287                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 39750 | 2506        | 25.65               | 26.30               | 1.161                  | 42.9         | 1.009                     | -0.1             | 0.210                  | 0.246                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 40185 | 2549.5      | 25.59               | 26.30               | 1.178                  | 42.9         | 1.009                     | 0.02             | 0.183                  | 0.217                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41055 | 2636.5      | 25.66               | 26.30               | 1.159                  | 42.9         | 1.009                     | 0.16             | 0.297                  | 0.347                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 41490 | 2680        | 25.56               | 26.30               | 1.186                  | 42.9         | 1.009                     | -0.11            | 0.381                  | 0.456                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 40620 | 2593        | 24.89               | 25.30               | 1.099                  | 42.9         | 1.009                     | 0.14             | 0.205                  | 0.227                  |
|          | LTE Band 41(HPUE)_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 40620 | 2593        | 24.89               | 25.30               | 1.099                  | 42.9         | 1.009                     | 0.06             | 0.197                  | 0.218                  |
|          | LTE Band 41C(HPUE)_LAT | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 41055 | 2636.5      | 24.96               | 26.30               | 1.361                  | 42.9         | 1.009                     | 0.05             | 0.308                  | 0.423                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Front         | 15mm     | Full            | 55830 | 3609        | 22.93               | 23.80               | 1.222                  | 62.9         | 1.006                     | -0.03            | 0.213                  | 0.262                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 55830 | 3609        | 22.93               | 23.80               | 1.222                  | 62.9         | 1.006                     | 0.02             | 0.310                  | 0.381                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 55340 | 3560        | 22.90               | 23.80               | 1.230                  | 62.9         | 1.006                     | 0.11             | 0.320                  | 0.396                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 56150 | 3641        | 22.68               | 23.80               | 1.294                  | 62.9         | 1.006                     | -0.03            | 0.320                  | 0.417                  |
| 76       | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 15mm     | Full            | 56640 | 3690        | 22.46               | 23.80               | 1.361                  | 62.9         | 1.006                     | -0.03            | 0.330                  | 0.452                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 50      | 24        | Front         | 15mm     | Full            | 55830 | 3609        | 22.04               | 22.80               | 1.191                  | 62.9         | 1.006                     | 0.01             | 0.208                  | 0.249                  |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 50      | 24        | Back          | 15mm     | Full            | 55830 | 3609        | 22.04               | 22.80               | 1.191                  | 62.9         | 1.006                     | 0.12             | 0.277                  | 0.332                  |
|          | LTE Band 48C_UAT       | 20M      | QPSK       | 1       | 0         | Back          | 15mm     | Full            | 56640 | 3690        | 22.92               | 23.80               | 1.225                  | 62.9         | 1.006                     | 0.05             | 0.311                  | 0.383                  |



## &lt;5G NR NSA SAR&gt;

| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N2_UAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 380000 | 1900        | 20.98               | 22.00               | 1.265                  | -0.14            | 0.225                  | 0.285                  |
|          | N2_UAT  | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Front         | 15mm     | Full            | 380000 | 1900        | 21.02               | 22.00               | 1.253                  | -0.17            | 0.259                  | 0.325                  |
|          | N2_UAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 380000 | 1900        | 20.98               | 22.00               | 1.265                  | -0.16            | 0.253                  | 0.320                  |
|          | N2_UAT  | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 15mm     | Full            | 380000 | 1900        | 21.02               | 22.00               | 1.253                  | -0.03            | 0.263                  | 0.330                  |
|          | N2_UAT  | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 15mm     | Full            | 372000 | 1860        | 20.51               | 22.00               | 1.409                  | -0.09            | 0.223                  | 0.314                  |
|          | N2_UAT  | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 15mm     | Full            | 376000 | 1880        | 21.01               | 22.00               | 1.256                  | -0.15            | 0.251                  | 0.315                  |
|          | N2_LAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | -0.1             | 0.376                  | 0.461                  |
|          | N2_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 15mm     | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | -0.08            | 0.424                  | 0.524                  |
|          | N2_LAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 376000 | 1880        | 22.92               | 23.80               | 1.225                  | -0.15            | 0.436                  | 0.533                  |
|          | N2_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 380000 | 1900        | 22.88               | 23.80               | 1.236                  | -0.16            | 0.439                  | 0.543                  |
|          | N2_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 372000 | 1860        | 22.47               | 23.80               | 1.358                  | -0.06            | 0.359                  | 0.487                  |
| 77       | N2_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 376000 | 1880        | 22.83               | 23.80               | 1.250                  | -0.18            | 0.449                  | 0.562                  |
|          | N5_UAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 166800 | 834         | 22.79               | 23.80               | 1.262                  | -0.07            | 0.142                  | 0.180                  |
|          | N5_UAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 15mm     | Full            | 166800 | 834         | 22.70               | 23.80               | 1.288                  | -0.11            | 0.154                  | 0.199                  |
|          | N5_UAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 166800 | 834         | 22.79               | 23.80               | 1.262                  | -0.16            | 0.171                  | 0.216                  |
|          | N5_UAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 166800 | 834         | 22.70               | 23.80               | 1.288                  | -0.11            | 0.177                  | 0.228                  |
| 78       | N5_UAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 167300 | 836.5       | 22.68               | 23.80               | 1.294                  | -0.18            | 0.191                  | 0.247                  |
|          | N5_UAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 167800 | 839         | 22.64               | 23.80               | 1.306                  | -0.09            | 0.177                  | 0.231                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | -0.01            | 0.151                  | 0.169                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 15mm     | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.03            | 0.148                  | 0.167                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 166800 | 834         | 23.31               | 23.80               | 1.119                  | -0.14            | 0.195                  | 0.219                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 166800 | 834         | 23.28               | 23.80               | 1.127                  | -0.09            | 0.194                  | 0.218                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 167300 | 836.5       | 23.21               | 23.80               | 1.146                  | -0.09            | 0.192                  | 0.220                  |
|          | N5_LAT  | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 167800 | 839         | 23.16               | 23.80               | 1.159                  | 0.02             | 0.198                  | 0.230                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 271       | DFT-30 | Front         | 15mm     | Full            | 518600 | 2593        | 22.41               | 23.00               | 1.146                  | 0.16             | 0.247                  | 0.283                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 138       | DFT-30 | Front         | 15mm     | Full            | 518600 | 2593        | 22.25               | 23.00               | 1.189                  | 0.04             | 0.243                  | 0.289                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 271       | DFT-30 | Back          | 15mm     | Full            | 518600 | 2593        | 22.41               | 23.00               | 1.146                  | 0.1              | 0.313                  | 0.359                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 271       | DFT-30 | Back          | 15mm     | Full            | 509200 | 2546        | 21.91               | 23.00               | 1.285                  | 0.18             | 0.205                  | 0.263                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 1       | 271       | DFT-30 | Back          | 15mm     | Full            | 528000 | 2640        | 22.35               | 23.00               | 1.161                  | -0.1             | 0.248                  | 0.288                  |
|          | N41_UAT | 100M     | PI/2 BPSK  | 135     | 138       | DFT-30 | Back          | 15mm     | Full            | 518600 | 2593        | 22.25               | 23.00               | 1.189                  | 0.06             | 0.274                  | 0.326                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Front         | 15mm     | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | -0.04            | 0.358                  | 0.390                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Front         | 15mm     | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | 0.07             | 0.369                  | 0.404                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 15mm     | Full            | 518600 | 2593        | 23.43               | 23.80               | 1.089                  | -0.17            | 0.436                  | 0.475                  |
| 79       | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 15mm     | Full            | 509200 | 2546        | 23.29               | 23.80               | 1.125                  | 0.07             | 0.438                  | 0.492                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 1       | 1         | DFT-30 | Back          | 15mm     | Full            | 528000 | 2640        | 23.35               | 23.80               | 1.109                  | -0.04            | 0.408                  | 0.452                  |
|          | N41_LAT | 100M     | PI/2 BPSK  | 135     | 0         | DFT-30 | Back          | 15mm     | Full            | 518600 | 2593        | 23.41               | 23.80               | 1.094                  | -0.14            | 0.422                  | 0.462                  |

| Plot No. | Band    | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|--------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 344000 | 1720        | 21.58               | 22.00               | 1.102                  | -0.14            | 0.255                  | 0.281                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Front         | 15mm     | Full            | 344000 | 1720        | 21.43               | 22.00               | 1.140                  | -0.14            | 0.264                  | 0.301                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 344000 | 1720        | 21.58               | 22.00               | 1.102                  | -0.19            | 0.263                  | 0.289                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Back          | 15mm     | Full            | 344000 | 1720        | 21.43               | 22.00               | 1.140                  | -0.11            | 0.269                  | 0.307                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Back          | 15mm     | Full            | 354000 | 1770        | 21.31               | 22.00               | 1.172                  | -0.03            | 0.325                  | 0.381                  |
|          | N66_UAT | 20M      | PI/2 BPSK  | 50      | 28        | DFT-15 | Back          | 15mm     | Full            | 349000 | 1745        | 21.22               | 22.00               | 1.197                  | -0.04            | 0.283                  | 0.339                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | -0.11            | 0.329                  | 0.372                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 15mm     | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.1             | 0.333                  | 0.378                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 349000 | 1745        | 23.27               | 23.80               | 1.130                  | -0.03            | 0.335                  | 0.379                  |
| 80       | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 344000 | 1720        | 23.22               | 23.80               | 1.143                  | -0.14            | 0.378                  | 0.432                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 354000 | 1770        | 23.07               | 23.80               | 1.183                  | -0.19            | 0.315                  | 0.373                  |
|          | N66_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 349000 | 1745        | 23.25               | 23.80               | 1.135                  | -0.11            | 0.329                  | 0.373                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 137600 | 688         | 22.91               | 23.80               | 1.227                  | -0.13            | 0.088                  | 0.108                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Front         | 15mm     | Full            | 137600 | 688         | 22.76               | 23.80               | 1.271                  | -0.19            | 0.114                  | 0.144                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 137600 | 688         | 22.91               | 23.80               | 1.227                  | -0.18            | 0.123                  | 0.150                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 15mm     | Full            | 137600 | 688         | 22.76               | 23.80               | 1.271                  | 0.02             | 0.142                  | 0.181                  |
|          | N71_UAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 134600 | 673         | 22.75               | 23.80               | 1.274                  | -0.11            | 0.186                  | 0.237                  |
| 81       | N71_UAT | 20M      | PI/2 BPSK  | 50      | 56        | DFT-15 | Back          | 15mm     | Full            | 136100 | 680.5       | 22.73               | 23.80               | 1.279                  | -0.16            | 0.201                  | 0.258                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Front         | 15mm     | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.11            | 0.154                  | 0.175                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Front         | 15mm     | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | -0.12            | 0.150                  | 0.171                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 136100 | 680.5       | 23.25               | 23.80               | 1.135                  | -0.04            | 0.201                  | 0.228                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 134600 | 673         | 23.09               | 23.80               | 1.178                  | -0.07            | 0.213                  | 0.251                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 1       | 1         | DFT-15 | Back          | 15mm     | Full            | 137600 | 673         | 23.13               | 23.80               | 1.167                  | -0.05            | 0.207                  | 0.242                  |
|          | N71_LAT | 20M      | PI/2 BPSK  | 50      | 0         | DFT-15 | Back          | 15mm     | Full            | 136100 | 680.5       | 23.23               | 23.80               | 1.140                  | -0.01            | 0.197                  | 0.224                  |

### <WLAN SAR>

| Plot No. | Band       | Mode          | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15mm     | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | 0.19             | 0.066                  | 0.104                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | -0.1             | 0.396                  | 0.628                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 1                  | 1   | 2412        | 16.71               | 18.71               | 1.585                  | 100          | 1.000                     | 0.06             | 0.312                  | 0.494                  |
| 82       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 1                  | 6   | 2437        | 16.66               | 18.66               | 1.585                  | 100          | 1.000                     | 0.15             | 0.409                  | 0.648                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15mm     | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | 0.05             | 0.054                  | 0.086                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | 0.14             | 0.306                  | 0.485                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 2                  | 1   | 2412        | 15.69               | 17.69               | 1.585                  | 100          | 1.000                     | -0.03            | 0.248                  | 0.393                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 2                  | 6   | 2437        | 15.57               | 17.57               | 1.585                  | 100          | 1.000                     | 0.12             | 0.345                  | 0.547                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15mm     | 3                  | 11  | 2462        | 13.91               | 15.91               | 1.585                  | 100          | 1.000                     | 0.05             | 0.034                  | 0.054                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 3                  | 11  | 2462        | 13.91               | 15.91               | 1.585                  | 100          | 1.000                     | 0.14             | 0.194                  | 0.307                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 3                  | 1   | 2412        | 13.71               | 15.71               | 1.585                  | 100          | 1.000                     | -0.03            | 0.157                  | 0.249                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 3                  | 6   | 2437        | 13.66               | 15.66               | 1.585                  | 100          | 1.000                     | 0.12             | 0.222                  | 0.352                  |

| Plot No. | Band     | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.09        | 1.019                     | 0.09             | 0.066                  | 0.107                  |
| 83       | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.09        | 1.019                     | 0.02             | 0.541                  | 0.874                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 62  | 5310        | 19.80               | 21.80               | 1.585                  | 98.09        | 1.019                     | 0.06             | 0.480                  | 0.775                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | -0.02            | 0.061                  | 0.099                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | -0.11            | 0.431                  | 0.697                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 46  | 5230        | 18.70               | 20.70               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.409                  | 0.661                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 3                  | 54  | 5270        | 16.83               | 18.83               | 1.585                  | 98.09        | 1.019                     | -0.02            | 0.039                  | 0.063                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 54  | 5270        | 16.83               | 18.83               | 1.585                  | 98.09        | 1.019                     | -0.11            | 0.274                  | 0.443                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 62  | 5310        | 16.82               | 18.82               | 1.585                  | 98.09        | 1.019                     | 0.16             | 0.260                  | 0.420                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.09        | 1.019                     | 0.11             | 0.011                  | 0.018                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.09        | 1.019                     | -0.01            | 0.467                  | 0.754                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 102 | 5510        | 17.40               | 19.40               | 1.585                  | 98.09        | 1.019                     | 0.01             | 0.468                  | 0.756                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 126 | 5630        | 17.22               | 19.22               | 1.585                  | 98.09        | 1.019                     | 0.05             | 0.575                  | 0.929                  |
| 84       | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 134 | 5670        | 17.01               | 19.01               | 1.585                  | 98.09        | 1.019                     | 0.03             | 0.602                  | 0.972                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | -0.03            | 0.002                  | 0.003                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | 0.05             | 0.346                  | 0.559                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 102 | 5510        | 15.34               | 17.34               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.349                  | 0.564                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 126 | 5630        | 15.19               | 17.19               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.409                  | 0.661                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 134 | 5670        | 15.00               | 17.00               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.431                  | 0.697                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 142 | 5710        | 14.79               | 16.79               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.414                  | 0.669                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.09        | 1.019                     | -0.03            | 0.001                  | 0.002                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.09        | 1.019                     | 0.05             | 0.218                  | 0.352                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 102 | 5510        | 13.42               | 15.42               | 1.585                  | 98.09        | 1.019                     | 0.14             | 0.220                  | 0.355                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 126 | 5630        | 13.25               | 15.25               | 1.585                  | 98.09        | 1.019                     | 0.09             | 0.257                  | 0.415                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 134 | 5670        | 13.01               | 15.01               | 1.585                  | 98.09        | 1.019                     | 0.06             | 0.268                  | 0.433                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 142 | 5710        | 12.85               | 14.85               | 1.585                  | 98.09        | 1.019                     | 0.14             | 0.260                  | 0.420                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.09        | 1.019                     | 0.03             | 0.001                  | 0.002                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.09        | 1.019                     | 0.06             | 0.520                  | 0.840                  |
| 85       | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 1                  | 159 | 5795        | 17.23               | 19.23               | 1.585                  | 98.09        | 1.019                     | 0.04             | 0.521                  | 0.841                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | 0.12             | 0.001                  | 0.002                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | -0.08            | 0.282                  | 0.456                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 2                  | 159 | 5795        | 15.17               | 17.17               | 1.585                  | 98.08        | 1.020                     | 0.01             | 0.281                  | 0.454                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 15mm     | 3                  | 151 | 5755        | 15.52               | 17.52               | 1.585                  | 98.09        | 1.019                     | 0.12             | 0.001                  | 0.002                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 151 | 5755        | 15.52               | 17.52               | 1.585                  | 98.09        | 1.019                     | -0.08            | 0.282                  | 0.455                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 15mm     | 3                  | 159 | 5795        | 15.23               | 17.23               | 1.585                  | 98.09        | 1.019                     | 0.01             | 0.281                  | 0.454                  |

### <Bluetooth SAR>

| Plot No. | Band      | Mode      | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-----------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | 0.06             | 0.005                  | 0.008                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 0 | Full            | 39  | 2441        | 14.07               | 16.07               | 1.585                  | 0.03             | 0.042                  | 0.067                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 0 | Full            | 0   | 2402        | 13.05               | 15.05               | 1.585                  | -0.02            | 0.036                  | 0.057                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 0 | Full            | 78  | 2480        | 12.10               | 14.10               | 1.585                  | 0.11             | 0.039                  | 0.062                  |
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.06            | 0.007                  | 0.011                  |
| 86       | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 1 | Full            | 39  | 2441        | 8.52                | 10.52               | 1.585                  | -0.14            | 0.048                  | 0.076                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 1 | Full            | 0   | 2402        | 7.72                | 9.72                | 1.585                  | 0.14             | 0.033                  | 0.052                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Chain 1 | Full            | 78  | 2480        | 6.84                | 8.84                | 1.585                  | 0.11             | 0.037                  | 0.059                  |

## 17.4 Product Specific SAR

### <WCDMA SAR>

| Plot No. | Band         | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|--------------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 87       | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 1413 | 1732.6      | 19.25               | 19.80               | 1.135                  | 0.18             | 1.670                   | 1.895                   |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Bottom Side   | 0mm      | Reduced         | 1413 | 1732.6      | 19.25               | 19.80               | 1.135                  | 0.07             | 1.150                   | 1.305                   |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 1312 | 1712.4      | 19.06               | 19.80               | 1.186                  | 0.07             | 1.530                   | 1.814                   |
|          | WCDMA IV_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 1513 | 1752.6      | 19.24               | 19.80               | 1.138                  | 0.1              | 1.630                   | 1.854                   |
|          | WCDMA II_LAT | RMC 12.2Kbps | Front         | 0mm      | Reduced         | 9400 | 1880        | 18.68               | 19.30               | 1.153                  | -0.08            | 1.130                   | 1.303                   |
| 88       | WCDMA II_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 9400 | 1880        | 18.68               | 19.30               | 1.153                  | 0.18             | 1.430                   | 1.649                   |
|          | WCDMA II_LAT | RMC 12.2Kbps | Bottom Side   | 0mm      | Reduced         | 9400 | 1880        | 18.68               | 19.30               | 1.153                  | -0.12            | 1.100                   | 1.269                   |
|          | WCDMA II_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 9262 | 1852.4      | 18.52               | 19.30               | 1.197                  | 0.04             | 1.170                   | 1.400                   |
|          | WCDMA II_LAT | RMC 12.2Kbps | Back          | 0mm      | Reduced         | 9538 | 1907.6      | 18.64               | 19.30               | 1.164                  | -0.08            | 1.330                   | 1.548                   |

### <CDMA SAR>

| Plot No. | Band             | Mode           | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | CDMA2000 BC1_LAT | RTAP 153.6Kbps | Back          | 0mm      | Reduced         | 600  | 1880        | 19.89               | 20.80               | 1.233                  | 0.19             | 1.660                   | 2.047                   |
|          | CDMA2000 BC1_LAT | RTAP 153.6Kbps | Bottom Side   | 0mm      | Reduced         | 600  | 1880        | 19.89               | 20.80               | 1.233                  | -0.02            | 1.030                   | 1.270                   |
|          | CDMA2000 BC1_LAT | RTAP 153.6Kbps | Back          | 0mm      | Reduced         | 25   | 1851.25     | 19.63               | 20.80               | 1.309                  | -0.12            | 1.510                   | 1.977                   |
| 89       | CDMA2000 BC1_LAT | RTAP 153.6Kbps | Back          | 0mm      | Reduced         | 1175 | 1908.75     | 19.78               | 20.80               | 1.265                  | 0.13             | 1.670                   | 2.112                   |

### <FDD LTE SAR>

| Plot No. | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 90       | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 0mm      | Reduced         | 26865  | 831.5       | 22.81               | 23.80               | 1.256                  | 0.09             | 1.140                   | 1.432                   |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 0mm      | Reduced         | 26765  | 821.5       | 22.76               | 23.80               | 1.271                  | -0.18            | 0.873                   | 1.109                   |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 0mm      | Reduced         | 26915  | 836.5       | 22.73               | 23.80               | 1.279                  | 0.05             | 1.080                   | 1.382                   |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 1       | 0         | Left Side     | 0mm      | Reduced         | 26965  | 841.5       | 22.78               | 23.80               | 1.265                  | 0.09             | 0.767                   | 0.970                   |
|          | LTE Band 26_UAT  | 15M      | QPSK       | 36      | 20        | Left Side     | 0mm      | Reduced         | 26865  | 831.5       | 21.88               | 22.80               | 1.236                  | 0.12             | 0.928                   | 1.147                   |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 132322 | 1745        | 19.11               | 19.80               | 1.172                  | 0.15             | 1.640                   | 1.922                   |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Reduced         | 132322 | 1745        | 19.11               | 19.80               | 1.172                  | -0.14            | 0.771                   | 0.904                   |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 132322 | 1745        | 19.09               | 19.80               | 1.178                  | -0.07            | 1.780                   | 2.096                   |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 0mm      | Reduced         | 132322 | 1745        | 19.09               | 19.80               | 1.178                  | 0.07             | 0.805                   | 0.948                   |
|          | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 132072 | 1720        | 19.05               | 19.80               | 1.189                  | 0.13             | 1.780                   | 2.116                   |
| 91       | LTE Band 66_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 132572 | 1770        | 19.08               | 19.80               | 1.180                  | 0.15             | 1.800                   | 2.125                   |
|          | LTE Band 66C_LAT | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 132572 | 1770        | 19.46               | 19.80               | 1.081                  | 0.01             | 1.770                   | 1.914                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Full            | 26340  | 1880        | 21.23               | 22.00               | 1.194                  | 0.03             | 1.740                   | 2.078                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 26340  | 1880        | 19.13               | 20.00               | 1.222                  | 0.17             | 0.856                   | 1.046                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 26340  | 1880        | 21.23               | 22.00               | 1.194                  | -0.1             | 2.090                   | 2.495                   |
| 92       | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 26140  | 1860        | 21.15               | 22.00               | 1.216                  | -0.12            | 2.130                   | 2.590                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 26590  | 1905        | 21.19               | 22.00               | 1.205                  | 0.04             | 1.830                   | 2.205                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 0mm      | Full            | 26340  | 1880        | 20.36               | 21.00               | 1.159                  | -0.14            | 1.630                   | 1.889                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 26340  | 1880        | 19.07               | 20.00               | 1.239                  | 0.11             | 0.841                   | 1.042                   |
|          | LTE Band 25_UAT  | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 26340  | 1880        | 20.36               | 21.00               | 1.159                  | -0.1             | 1.550                   | 1.796                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Reduced         | 26340  | 1880        | 18.28               | 18.80               | 1.127                  | 0.13             | 1.200                   | 1.353                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 26340  | 1880        | 18.28               | 18.80               | 1.127                  | 0.16             | 1.720                   | 1.939                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Reduced         | 26340  | 1880        | 18.28               | 18.80               | 1.127                  | -0.1             | 1.100                   | 1.240                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 0mm      | Reduced         | 26340  | 1880        | 18.25               | 18.80               | 1.135                  | -0.17            | 1.230                   | 1.396                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 26340  | 1880        | 18.25               | 18.80               | 1.135                  | 0                | 1.750                   | 1.986                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 0mm      | Reduced         | 26340  | 1880        | 18.25               | 18.80               | 1.135                  | 0.05             | 1.150                   | 1.305                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 26140  | 1860        | 18.20               | 18.80               | 1.148                  | -0.04            | 1.760                   | 2.021                   |
|          | LTE Band 25_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 26590  | 1905        | 18.20               | 18.80               | 1.148                  | -0.07            | 1.720                   | 1.975                   |



| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 27710 | 2310        | 20.30               | 20.80               | 1.122                  | 0.18             | 0.933                   | 1.047                   |
| 93       | LTE Band 30_UAT | 10M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 27710 | 2310        | 21.08               | 21.80               | 1.180                  | 0.13             | 1.560                   | 1.841                   |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Back          | 0mm      | Reduced         | 27710 | 2310        | 20.31               | 20.80               | 1.119                  | -0.06            | 0.929                   | 1.040                   |
|          | LTE Band 30_UAT | 10M      | QPSK       | 25      | 12        | Top Side      | 0mm      | Full            | 27710 | 2310        | 20.09               | 20.80               | 1.178                  | -0.01            | 1.320                   | 1.554                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Full            | 20850 | 2510        | 21.26               | 21.80               | 1.132                  | -0.02            | 1.750                   | 1.982                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.42               | 18.80               | 1.091                  | -0.18            | 0.749                   | 0.817                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 20850 | 2510        | 21.26               | 21.80               | 1.132                  | -0.08            | 1.520                   | 1.721                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Full            | 21100 | 2535        | 21.16               | 21.80               | 1.159                  | -0.15            | 1.630                   | 1.889                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Full            | 21350 | 2560        | 21.09               | 21.80               | 1.178                  | -0.08            | 1.580                   | 1.861                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Front         | 0mm      | Full            | 20850 | 2510        | 20.37               | 20.80               | 1.104                  | 0.07             | 1.450                   | 1.601                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.51               | 18.80               | 1.069                  | 0.07             | 0.717                   | 0.767                   |
|          | LTE Band 7_UAT  | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 20850 | 2510        | 20.37               | 20.80               | 1.104                  | 0.1              | 1.300                   | 1.435                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | Reduced         | 20850 | 2510        | 18.50               | 18.80               | 1.072                  | -0.16            | 1.410                   | 1.511                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.50               | 18.80               | 1.072                  | 0.08             | 1.770                   | 1.897                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Reduced         | 20850 | 2510        | 18.50               | 18.80               | 1.072                  | -0.03            | 0.643                   | 0.689                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Front         | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | 0.18             | 1.440                   | 1.554                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | -0.06            | 1.830                   | 1.974                   |
| 94       | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | 0.14             | 2.120                   | 2.287                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Bottom Side   | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | -0.05            | 0.639                   | 0.689                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 21100 | 2535        | 18.42               | 18.80               | 1.091                  | 0.12             | 1.740                   | 1.899                   |
|          | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 21350 | 2560        | 18.45               | 18.80               | 1.084                  | -0.03            | 1.650                   | 1.788                   |

## &lt;TDD LTE SAR&gt;

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 40620 | 2593        | 21.47               | 21.80               | 1.079                  | 62.9         | 1.006                     | -0.17            | 1.340                   | 1.454                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 39750 | 2506        | 21.43               | 21.80               | 1.089                  | 62.9         | 1.006                     | -0.16            | 1.330                   | 1.457                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 40185 | 2549.5      | 21.35               | 21.80               | 1.109                  | 62.9         | 1.006                     | -0.12            | 1.380                   | 1.540                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 41055 | 2636.5      | 21.27               | 21.80               | 1.130                  | 62.9         | 1.006                     | -0.19            | 1.520                   | 1.728                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 41490 | 2680        | 21.15               | 21.80               | 1.161                  | 62.9         | 1.006                     | -0.07            | 1.541                   | 1.801                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 40620 | 2593        | 20.29               | 20.80               | 1.125                  | 62.9         | 1.006                     | -0.04            | 1.220                   | 1.380                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 39750 | 2506        | 20.13               | 20.80               | 1.167                  | 62.9         | 1.006                     | 0.01             | 1.120                   | 1.315                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 40185 | 2549.5      | 20.12               | 20.80               | 1.169                  | 62.9         | 1.006                     | 0.03             | 1.130                   | 1.329                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 41055 | 2636.5      | 20.10               | 20.80               | 1.175                  | 62.9         | 1.006                     | -0.17            | 1.290                   | 1.525                   |
|          | LTE Band 41_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 41490 | 2680        | 20.05               | 20.80               | 1.189                  | 62.9         | 1.006                     | -0.17            | 1.330                   | 1.590                   |
|          | LTE Band 41C_UAT       | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 41055 | 2636.5      | 21.79               | 21.80               | 1.002                  | 62.9         | 1.006                     | 0.07             | 1.960                   | 1.976                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 40620 | 2593        | 23.84               | 24.30               | 1.112                  | 42.9         | 1.009                     | 0.06             | 1.652                   | 1.853                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 39750 | 2506        | 23.73               | 24.30               | 1.140                  | 42.9         | 1.009                     | -0.09            | 1.596                   | 1.836                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 40185 | 2549.5      | 23.77               | 24.30               | 1.130                  | 42.9         | 1.009                     | 0.05             | 1.589                   | 1.811                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 41055 | 2636.5      | 23.65               | 24.30               | 1.161                  | 42.9         | 1.009                     | 0.16             | 1.690                   | 1.981                   |
| 95       | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 41490 | 2680        | 23.64               | 24.30               | 1.164                  | 42.9         | 1.009                     | 0.09             | 1.698                   | 1.994                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 40620 | 2593        | 22.93               | 23.30               | 1.089                  | 42.9         | 1.009                     | -0.14            | 1.491                   | 1.638                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 50        | Top Side      | 0mm      | Full            | 39750 | 2506        | 22.79               | 23.30               | 1.125                  | 42.9         | 1.009                     | 0.06             | 1.384                   | 1.570                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 50        | Top Side      | 0mm      | Full            | 40185 | 2549.5      | 22.88               | 23.30               | 1.102                  | 42.9         | 1.009                     | 0.08             | 1.444                   | 1.605                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 50        | Top Side      | 0mm      | Full            | 41055 | 2636.5      | 22.72               | 23.30               | 1.143                  | 42.9         | 1.009                     | 0                | 1.369                   | 1.579                   |
|          | LTE Band 41(HPUE)_UAT  | 20M      | QPSK       | 50      | 50        | Top Side      | 0mm      | Full            | 41490 | 2680        | 22.63               | 23.30               | 1.167                  | 42.9         | 1.009                     | 0.04             | 1.453                   | 1.711                   |
|          | LTE Band 41C(HPUE)_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 40620 | 2593        | 23.15               | 24.30               | 1.303                  | 42.9         | 1.009                     | 0.14             | 0.788                   | 1.036                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Back          | 0mm      | Reduced         | 55830 | 3609        | 19.27               | 19.80               | 1.130                  | 62.9         | 1.006                     | 0.09             | 0.630                   | 0.716                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 55830 | 3609        | 22.93               | 23.80               | 1.222                  | 62.9         | 1.006                     | 0.01             | 1.380                   | 1.696                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 55340 | 3560        | 22.90               | 23.80               | 1.230                  | 62.9         | 1.006                     | 0.11             | 1.370                   | 1.696                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 56150 | 3641        | 22.68               | 23.80               | 1.294                  | 62.9         | 1.006                     | 0.06             | 1.420                   | 1.849                   |
| 96       | LTE Band 48_UAT        | 20M      | QPSK       | 1       | 49        | Top Side      | 0mm      | Full            | 56640 | 3690        | 22.46               | 23.80               | 1.361                  | 62.9         | 1.006                     | 0.11             | 1.450                   | 1.986                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 55830 | 3609        | 19.26               | 19.80               | 1.132                  | 62.9         | 1.006                     | -0.1             | 0.610                   | 0.695                   |
|          | LTE Band 48_UAT        | 20M      | QPSK       | 50      | 24        | Top Side      | 0mm      | Full            | 55830 | 3609        | 22.04               | 22.80               | 1.191                  | 62.9         | 1.006                     | 0.09             | 1.280                   | 1.534                   |
|          | LTE Band 48C_UAT       | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 56640 | 3690        | 22.92               | 23.80               | 1.225                  | 62.9         | 1.006                     | -0.03            | 1.560                   | 1.922                   |



## &lt;WLAN SAR&gt;

| Plot No. | Band       | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 97       | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 0mm      | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | 0.04             | 0.376                   | 0.596                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | -0.09            | 1.410                   | 2.235                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 0mm      | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | 0.1              | 0.640                   | 1.014                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 0mm      | 1                  | 11  | 2462        | 16.91               | 18.91               | 1.585                  | 100          | 1.000                     | -0.06            | 0.114                   | 0.181                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 1                  | 1   | 2412        | 16.71               | 18.71               | 1.585                  | 100          | 1.000                     | -0.13            | 1.120                   | 1.775                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 1                  | 6   | 2437        | 16.66               | 18.66               | 1.585                  | 100          | 1.000                     | 0.19             | 1.150                   | 1.823                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 0mm      | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | 0.08             | 0.375                   | 0.594                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | -0.01            | 0.838                   | 1.328                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 0mm      | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | 0.03             | 0.566                   | 0.897                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 0mm      | 2                  | 11  | 2462        | 15.89               | 17.89               | 1.585                  | 100          | 1.000                     | 0.13             | 0.099                   | 0.157                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 2                  | 1   | 2412        | 15.69               | 17.69               | 1.585                  | 100          | 1.000                     | 0.04             | 0.677                   | 1.073                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 2                  | 6   | 2437        | 15.57               | 17.57               | 1.585                  | 100          | 1.000                     | -0.07            | 0.694                   | 1.100                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Front         | 0mm      | 3                  | 11  | 2462        | 12.91               | 14.91               | 1.585                  | 100          | 1.000                     | 0.1              | 0.189                   | 0.300                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 3                  | 11  | 2462        | 12.91               | 14.91               | 1.585                  | 100          | 1.000                     | 0.19             | 0.422                   | 0.669                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Side    | 0mm      | 3                  | 11  | 2462        | 12.91               | 14.91               | 1.585                  | 100          | 1.000                     | 0.17             | 0.285                   | 0.452                   |
| 98       | WLAN2.4GHz | 802.11b 1Mbps     | Top Side      | 0mm      | 3                  | 11  | 2462        | 12.91               | 14.91               | 1.585                  | 100          | 1.000                     | -0.1             | 0.050                   | 0.079                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 3                  | 1   | 2412        | 12.71               | 14.71               | 1.585                  | 100          | 1.000                     | -0.13            | 0.341                   | 0.540                   |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Back          | 0mm      | 3                  | 6   | 2437        | 12.66               | 14.66               | 1.585                  | 100          | 1.000                     | 0.14             | 0.355                   | 0.563                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 1                  | 38  | 5190        | 19.72               | 21.72               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.152                   | 0.246                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 38  | 5190        | 19.72               | 21.72               | 1.585                  | 98.08        | 1.020                     | 0.06             | 1.260                   | 2.037                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 1                  | 38  | 5190        | 19.72               | 21.72               | 1.585                  | 98.08        | 1.020                     | 0.17             | 0.409                   | 0.661                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 1                  | 38  | 5190        | 19.72               | 21.72               | 1.585                  | 98.08        | 1.020                     | -0.17            | 0.297                   | 0.480                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 46  | 5230        | 19.71               | 21.71               | 1.585                  | 98.08        | 1.020                     | 0                | 1.290                   | 2.085                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.189                   | 0.306                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | -0.04            | 0.742                   | 1.200                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | 0.13             | 0.513                   | 0.829                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 2                  | 38  | 5190        | 18.71               | 20.71               | 1.585                  | 98.08        | 1.020                     | -0.01            | 0.268                   | 0.433                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 46  | 5230        | 18.70               | 20.70               | 1.585                  | 98.08        | 1.020                     | 0.08             | 1.029                   | 1.663                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 3                  | 38  | 5190        | 15.76               | 17.76               | 1.585                  | 98.08        | 1.020                     | 0.05             | 0.094                   | 0.152                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 38  | 5190        | 15.76               | 17.76               | 1.585                  | 98.08        | 1.020                     | 0.13             | 0.369                   | 0.597                   |
| 99       | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 3                  | 38  | 5190        | 15.76               | 17.76               | 1.585                  | 98.08        | 1.020                     | 0.18             | 0.255                   | 0.412                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 3                  | 38  | 5190        | 15.76               | 17.76               | 1.585                  | 98.08        | 1.020                     | -0.05            | 0.133                   | 0.215                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 46  | 5230        | 15.74               | 17.74               | 1.585                  | 98.08        | 1.020                     | -0.07            | 0.510                   | 0.824                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | -0.1             | 0.230                   | 0.372                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | 0.12             | 1.460                   | 2.360                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | -0.13            | 0.635                   | 1.027                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 1                  | 54  | 5270        | 19.91               | 21.91               | 1.585                  | 98.08        | 1.020                     | -0.03            | 0.530                   | 0.857                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 62  | 5310        | 19.80               | 21.80               | 1.585                  | 98.08        | 1.020                     | -0.11            | 1.440                   | 2.328                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 2                  | 54  | 5270        | 17.81               | 19.81               | 1.585                  | 98.08        | 1.020                     | 0.11             | 0.158                   | 0.255                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 54  | 5270        | 17.81               | 19.81               | 1.585                  | 98.08        | 1.020                     | 0.01             | 0.844                   | 1.364                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 2                  | 54  | 5270        | 17.81               | 19.81               | 1.585                  | 98.08        | 1.020                     | 0.18             | 0.551                   | 0.891                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 2                  | 54  | 5270        | 17.81               | 19.81               | 1.585                  | 98.08        | 1.020                     | -0.14            | 0.238                   | 0.385                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 62  | 5310        | 17.80               | 19.80               | 1.585                  | 98.08        | 1.020                     | -0.03            | 0.872                   | 1.410                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Front         | 0mm      | 3                  | 54  | 5270        | 15.83               | 17.83               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.098                   | 0.158                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 54  | 5270        | 15.83               | 17.83               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.524                   | 0.847                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 3                  | 54  | 5270        | 15.83               | 17.83               | 1.585                  | 98.08        | 1.020                     | -0.02            | 0.342                   | 0.553                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 3                  | 54  | 5270        | 15.83               | 17.83               | 1.585                  | 98.08        | 1.020                     | -0.15            | 0.148                   | 0.239                   |
|          | WLAN5GHz   | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 62  | 5310        | 15.82               | 17.82               | 1.585                  | 98.08        | 1.020                     | -0.17            | 0.542                   | 0.876                   |

| Plot No. | Band     | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | 0.11             | 0.108                   | 0.175                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | 0.07             | 1.190                   | 1.924                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | -0.12            | 0.261                   | 0.422                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 1                  | 110 | 5550        | 17.44               | 19.44               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.248                   | 0.401                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 102 | 5510        | 17.40               | 19.40               | 1.585                  | 98.08        | 1.020                     | 0.18             | 1.060                   | 1.714                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 126 | 5630        | 17.22               | 19.22               | 1.585                  | 98.08        | 1.020                     | 0.05             | 1.210                   | 1.956                   |
| 100      | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 134 | 5670        | 17.01               | 19.01               | 1.585                  | 98.08        | 1.020                     | 0                | 1.550                   | 2.506                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 142 | 5710        | 16.83               | 18.83               | 1.585                  | 98.08        | 1.020                     | -0.05            | 1.530                   | 2.473                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | 0.06             | 0.660                   | 1.067                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | 0.08             | 0.902                   | 1.458                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | -0.09            | 0.269                   | 0.435                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 2                  | 110 | 5550        | 15.38               | 17.38               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.156                   | 0.252                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 102 | 5510        | 15.34               | 17.34               | 1.585                  | 98.08        | 1.020                     | 0.12             | 0.914                   | 1.478                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 126 | 5630        | 15.19               | 17.19               | 1.585                  | 98.08        | 1.020                     | 0.03             | 0.847                   | 1.369                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 134 | 5670        | 15.00               | 17.00               | 1.585                  | 98.08        | 1.020                     | 0.03             | 0.922                   | 1.490                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 142 | 5710        | 14.79               | 16.79               | 1.585                  | 98.08        | 1.020                     | 0.09             | 0.932                   | 1.507                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.08        | 1.020                     | -0.12            | 0.042                   | 0.067                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.08        | 1.020                     | 0.02             | 0.567                   | 0.917                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.08        | 1.020                     | 0.19             | 0.169                   | 0.273                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 3                  | 110 | 5550        | 13.45               | 15.45               | 1.585                  | 98.08        | 1.020                     | 0.11             | 0.098                   | 0.158                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 102 | 5510        | 13.42               | 15.42               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.576                   | 0.931                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 126 | 5630        | 13.25               | 15.25               | 1.585                  | 98.08        | 1.020                     | 0.17             | 0.531                   | 0.858                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 134 | 5670        | 13.01               | 15.01               | 1.585                  | 98.08        | 1.020                     | 0.03             | 0.572                   | 0.925                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 142 | 5710        | 12.85               | 14.85               | 1.585                  | 98.08        | 1.020                     | 0.19             | 0.585                   | 0.946                   |

| Plot No. | Band     | Mode              | Test Position | Gap (mm) | output Power state | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|-------------------|---------------|----------|--------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0.15             | 0.076                   | 0.123                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0.09             | 1.240                   | 2.005                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | 0.16             | 0.371                   | 0.600                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 1                  | 151 | 5755        | 17.52               | 19.52               | 1.585                  | 98.08        | 1.020                     | -0.11            | 0.228                   | 0.369                   |
| 101      | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 1                  | 159 | 5795        | 17.23               | 19.23               | 1.585                  | 98.08        | 1.020                     | 0                | 1.510                   | 2.441                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | 0.14             | 0.083                   | 0.134                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | -0.09            | 0.858                   | 1.387                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | 0.05             | 0.268                   | 0.433                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 2                  | 151 | 5755        | 15.47               | 17.47               | 1.585                  | 98.08        | 1.020                     | 0.02             | 0.096                   | 0.155                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 2                  | 159 | 5795        | 15.17               | 17.17               | 1.585                  | 98.08        | 1.020                     | 0.03             | 0.897                   | 1.450                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | 3                  | 151 | 5755        | 13.52               | 15.52               | 1.585                  | 98.08        | 1.020                     | 0.05             | 0.052                   | 0.084                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 151 | 5755        | 13.52               | 15.52               | 1.585                  | 98.08        | 1.020                     | 0.19             | 0.537                   | 0.868                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | 3                  | 151 | 5755        | 13.52               | 15.52               | 1.585                  | 98.08        | 1.020                     | -0.01            | 0.168                   | 0.272                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | 3                  | 151 | 5755        | 13.52               | 15.52               | 1.585                  | 98.08        | 1.020                     | -0.02            | 0.060                   | 0.097                   |
|          | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | 3                  | 159 | 5795        | 13.24               | 15.24               | 1.585                  | 98.08        | 1.020                     | -0.18            | 0.564                   | 0.912                   |

### 17.5 Repeated SAR Measurement

| No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | LTE Band 48_UAT | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 56640 | 3690        | 14.00               | 14.30               | 1.072                  | 62.9         | 1.006                     | 0.1              | 0.846                  | -     | 0.912                  |
| 2nd | LTE Band 48_UAT | 20M      | QPSK       | 50      | 24        | Right Tilted  | 0mm      | Reduced         | 56640 | 3690        | 14.00               | 14.30               | 1.072                  | 62.9         | 1.006                     | 0.09             | 0.811                  | 1.04  | 0.874                  |

| No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|-----------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 26140 | 1860        | 21.15               | 22.00               | 1.216                  | -0.12            | 2.130                   | -     | 2.590                   |
| 2nd | LTE Band 25_UAT | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Full            | 26140 | 1860        | 21.15               | 22.00               | 1.216                  | 0.14             | 2.060                   | 1.03  | 2.505                   |
| 1st | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | 0.14             | 2.120                   | -     | 2.287                   |
| 2nd | LTE Band 7_LAT  | 20M      | QPSK       | 50      | 24        | Back          | 0mm      | Reduced         | 20850 | 2510        | 18.47               | 18.80               | 1.079                  | 0.1              | 2.030                   | 1.04  | 2.190                   |

#### General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8\text{W/kg}$ .
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45\text{W/kg}$ , only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

### 17.6 TDD B41 Linearity Data Analysis

**General Note:**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

| UAT Body                            | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 17.8            | 19.8            |
| Reported 1g SAR (W/kg)              | 0.792           | 0.92            |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 38.14           | 41.35           |
| Linearity SAR(W/kg)                 | 0.86            |                 |
| % deviation from expected linearity |                 | 7.15%           |

| LAT Body                            | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 20.8            | 23.3            |
| Reported 1g SAR (W/kg)              | 0.576           | 0.713           |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 76.10           | 92.57           |
| Linearity SAR(W/kg)                 | 0.70            |                 |
| % deviation from expected linearity |                 | 1.76%           |

| UAT Head                            | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 17.3            | 18.3            |
| Reported 1g SAR (W/kg)              | 0.761           | 0.714           |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 33.99           | 29.27           |
| Linearity SAR(W/kg)                 | 0.66            |                 |
| % deviation from expected linearity |                 | 8.95%           |

| LAT Body                            | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 23.8            | 24.8            |
| Reported 1g SAR (W/kg)              | 0.307           | 0.26            |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 151.85          | 130.76          |
| Linearity SAR(W/kg)                 | 0.26            |                 |
| % deviation from expected linearity |                 | -1.66%          |

| UAT Extremity                       | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 21.8            | 24.3            |
| Reported 1g SAR (W/kg)              | 1.801           | 1.994           |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 95.81           | 116.54          |
| Linearity SAR(W/kg)                 | 2.19            |                 |
| % deviation from expected linearity |                 | -8.98%          |

## 18. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations  | Portable Handset |           |         |                  |
|-----|-------------------------------------------|------------------|-----------|---------|------------------|
|     |                                           | Head             | Body-worn | Hotspot | Product Specific |
| 1.  | WWAN or WLAN2.4GHz or WLAN5GHz Standalone | Yes              | Yes       | No      | Yes              |
| 2.  | WWAN + BT                                 | Yes              | Yes       | Yes     | Yes              |
| 3.  | WLAN 5GHz + BT                            | Yes              | Yes       | No      | Yes              |
| 4.  | WLAN2.4GHz + WLAN5GHz                     | Yes              | Yes       | No      | Yes              |
| 5.  | WWAN + WLAN2.4GHz                         | Yes              | Yes       | Yes     | Yes              |
| 6.  | WWAN + WLAN5GHz + Bluetooth               | Yes              | Yes       | Yes     | Yes              |
| 7.  | WWAN + WLAN2.4GHz + WLAN5GHz              | Yes              | Yes       | Yes     | Yes              |
| 8.  | WWAN + WLAN 2.4GHz + FR1                  | Yes              | Yes       | Yes     | Yes              |
| 9.  | WWAN + WLAN5GHz + Bluetooth + FR1         | Yes              | Yes       | Yes     | Yes              |

**General Note:**

1. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
2. 2.4GHz WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. All licensed modes share the same antenna part and cannot transmit simultaneously.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation  $< 1.6\text{W/kg}$ .
  - ii)  $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where  $(x1, y1, z1)$  and  $(x2, y2, z2)$  are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $\text{SPLSR} \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR  $< 1.6\text{W/kg}$ .

**18.1 Head Exposure Conditions**

| WWAN Band         | Exposure Position | 1                | 2                | 4                | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|-------------------|-------------------|------------------|------------------|------------------|--------------------------------|--------------------------------|
|                   |                   | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        |                                |                                |
|                   |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                |                                |
| GSM850_UAT        | Right Cheek       | 0.243            | 0.136            | 0.234            | 0.379                          | 0.477                          |
|                   | Right Tilted      | 0.042            | 0.130            | 0.270            | 0.172                          | 0.312                          |
|                   | Left Cheek        | 0.486            | 0.488            | 0.322            | 0.974                          | 0.808                          |
|                   | Left Tilted       | 0.065            | 0.420            | 0.561            | 0.485                          | 0.626                          |
| GSM1900_UAT       | Right Cheek       | 0.384            | 0.136            | 0.234            | 0.520                          | 0.618                          |
|                   | Right Tilted      | 0.448            | 0.130            | 0.270            | 0.578                          | 0.718                          |
|                   | Left Cheek        | 0.264            | 0.488            | 0.322            | 0.752                          | 0.586                          |
|                   | Left Tilted       | 0.342            | 0.420            | 0.561            | 0.762                          | 0.903                          |
| WCDMA V_UAT       | Right Cheek       | 0.482            | 0.136            | 0.234            | 0.618                          | 0.716                          |
|                   | Right Tilted      | 0.089            | 0.130            | 0.270            | 0.219                          | 0.359                          |
|                   | Left Cheek        | 0.656            | 0.488            | 0.322            | 1.144                          | 0.978                          |
|                   | Left Tilted       | 0.089            | 0.420            | 0.561            | 0.509                          | 0.650                          |
| WCDMA IV_UAT      | Right Cheek       | 0.483            | 0.136            | 0.234            | 0.619                          | 0.717                          |
|                   | Right Tilted      | 0.668            | 0.130            | 0.270            | 0.798                          | 0.938                          |
|                   | Left Cheek        | 0.322            | 0.488            | 0.322            | 0.810                          | 0.644                          |
|                   | Left Tilted       | 0.416            | 0.420            | 0.561            | 0.836                          | 0.977                          |
| WCDMA II_UAT      | Right Cheek       | 0.613            | 0.136            | 0.234            | 0.749                          | 0.847                          |
|                   | Right Tilted      | 0.741            | 0.130            | 0.270            | 0.871                          | 1.011                          |
|                   | Left Cheek        | 0.459            | 0.488            | 0.322            | 0.947                          | 0.781                          |
|                   | Left Tilted       | 0.542            | 0.420            | 0.561            | 0.962                          | 1.103                          |
| CDMA2000 BC0_UAT  | Right Cheek       | 0.478            | 0.136            | 0.234            | 0.614                          | 0.712                          |
|                   | Right Tilted      | 0.094            | 0.130            | 0.270            | 0.224                          | 0.364                          |
|                   | Left Cheek        | 0.680            | 0.488            | 0.322            | 1.168                          | 1.002                          |
|                   | Left Tilted       | 0.094            | 0.420            | 0.561            | 0.514                          | 0.655                          |
| CDMA2000 BC10_UAT | Right Cheek       | 0.484            | 0.136            | 0.234            | 0.620                          | 0.718                          |
|                   | Right Tilted      | 0.093            | 0.130            | 0.270            | 0.223                          | 0.363                          |
|                   | Left Cheek        | 0.713            | 0.488            | 0.322            | 1.201                          | 1.035                          |
|                   | Left Tilted       | 0.105            | 0.420            | 0.561            | 0.525                          | 0.666                          |
| CDMA2000 BC1_UAT  | Right Cheek       | 0.795            | 0.136            | 0.234            | 0.931                          | 1.029                          |
|                   | Right Tilted      | 0.697            | 0.130            | 0.270            | 0.827                          | 0.967                          |
|                   | Left Cheek        | 0.718            | 0.488            | 0.322            | 1.206                          | 1.040                          |
|                   | Left Tilted       | 0.686            | 0.420            | 0.561            | 1.106                          | 1.247                          |
| LTE Band 71_UAT   | Right Cheek       | 0.600            | 0.136            | 0.234            | 0.736                          | 0.834                          |
|                   | Right Tilted      | 0.136            | 0.130            | 0.270            | 0.266                          | 0.406                          |
|                   | Left Cheek        | 0.707            | 0.488            | 0.322            | 1.195                          | 1.029                          |
|                   | Left Tilted       | 0.115            | 0.420            | 0.561            | 0.535                          | 0.676                          |
| LTE Band 12_UAT   | Right Cheek       | 0.519            | 0.136            | 0.234            | 0.655                          | 0.753                          |
|                   | Right Tilted      | 0.106            | 0.130            | 0.270            | 0.236                          | 0.376                          |
|                   | Left Cheek        | 0.605            | 0.488            | 0.322            | 1.093                          | 0.927                          |
|                   | Left Tilted       | 0.110            | 0.420            | 0.561            | 0.530                          | 0.671                          |
| LTE Band 13_UAT   | Right Cheek       | 0.550            | 0.136            | 0.234            | 0.686                          | 0.784                          |
|                   | Right Tilted      | 0.113            | 0.130            | 0.270            | 0.243                          | 0.383                          |
|                   | Left Cheek        | 0.714            | 0.488            | 0.322            | 1.202                          | 1.036                          |
|                   | Left Tilted       | 0.111            | 0.420            | 0.561            | 0.531                          | 0.672                          |
| LTE Band 5_UAT    | Right Cheek       | 0.413            | 0.136            | 0.234            | 0.549                          | 0.647                          |
|                   | Right Tilted      | 0.090            | 0.130            | 0.270            | 0.220                          | 0.360                          |
|                   | Left Cheek        | 0.604            | 0.488            | 0.322            | 1.092                          | 0.926                          |
|                   | Left Tilted       | 0.092            | 0.420            | 0.561            | 0.512                          | 0.653                          |
| LTE Band 26_UAT   | Right Cheek       | 0.291            | 0.136            | 0.234            | 0.427                          | 0.525                          |
|                   | Right Tilted      | 0.085            | 0.130            | 0.270            | 0.215                          | 0.355                          |
|                   | Left Cheek        | 0.712            | 0.488            | 0.322            | 1.200                          | 1.034                          |

|                       |              |       |       |       |       |       |
|-----------------------|--------------|-------|-------|-------|-------|-------|
|                       | Left Tilted  | 0.104 | 0.420 | 0.561 | 0.524 | 0.665 |
| LTE Band 66_UAT       | Right Cheek  | 0.509 | 0.136 | 0.234 | 0.645 | 0.743 |
|                       | Right Tilted | 0.736 | 0.130 | 0.270 | 0.866 | 1.006 |
|                       | Left Cheek   | 0.345 | 0.488 | 0.322 | 0.833 | 0.667 |
|                       | Left Tilted  | 0.465 | 0.420 | 0.561 | 0.885 | 1.026 |
| LTE Band 25_UAT       | Right Cheek  | 0.687 | 0.136 | 0.234 | 0.823 | 0.921 |
|                       | Right Tilted | 0.896 | 0.130 | 0.270 | 1.026 | 1.166 |
|                       | Left Cheek   | 0.533 | 0.488 | 0.322 | 1.021 | 0.855 |
|                       | Left Tilted  | 0.639 | 0.420 | 0.561 | 1.059 | 1.200 |
| LTE Band 30_UAT       | Right Cheek  | 0.775 | 0.136 | 0.234 | 0.911 | 1.009 |
|                       | Right Tilted | 0.898 | 0.130 | 0.270 | 1.028 | 1.168 |
|                       | Left Cheek   | 0.640 | 0.488 | 0.322 | 1.128 | 0.962 |
|                       | Left Tilted  | 0.677 | 0.420 | 0.561 | 1.097 | 1.238 |
| LTE Band 7_UAT        | Right Cheek  | 0.770 | 0.136 | 0.234 | 0.906 | 1.004 |
|                       | Right Tilted | 0.687 | 0.130 | 0.270 | 0.817 | 0.957 |
|                       | Left Cheek   | 0.468 | 0.488 | 0.322 | 0.956 | 0.790 |
|                       | Left Tilted  | 0.555 | 0.420 | 0.561 | 0.975 | 1.116 |
| LTE Band 41_UAT       | Right Cheek  | 0.761 | 0.136 | 0.234 | 0.897 | 0.995 |
|                       | Right Tilted | 0.467 | 0.130 | 0.270 | 0.597 | 0.737 |
|                       | Left Cheek   | 0.403 | 0.488 | 0.322 | 0.891 | 0.725 |
|                       | Left Tilted  | 0.417 | 0.420 | 0.561 | 0.837 | 0.978 |
| LTE Band 41(HPUE)_UAT | Right Cheek  | 0.714 | 0.136 | 0.234 | 0.850 | 0.948 |
|                       | Right Tilted | 0.410 | 0.130 | 0.270 | 0.540 | 0.680 |
|                       | Left Cheek   | 0.337 | 0.488 | 0.322 | 0.825 | 0.659 |
|                       | Left Tilted  | 0.343 | 0.420 | 0.561 | 0.763 | 0.904 |
| LTE Band 48_UAT       | Right Cheek  | 0.522 | 0.136 | 0.234 | 0.658 | 0.756 |
|                       | Right Tilted | 0.912 | 0.130 | 0.270 | 1.042 | 1.182 |
|                       | Left Cheek   | 0.302 | 0.488 | 0.322 | 0.790 | 0.624 |
|                       | Left Tilted  | 0.343 | 0.420 | 0.561 | 0.763 | 0.904 |

| WWAN Band        | Exposure Position | 1             | 2             | 4             | 6                 | 7                 | 1+2+4 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+4+7 Summed 1g SAR (W/kg) |
|------------------|-------------------|---------------|---------------|---------------|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
|                  |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                            |
|                  |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                            |
| GSM850_UAT       | Right Cheek       | 0.243         | 0.087         | 0.140         | 0.033             | 0.063             | 0.470                      | 0.416                      | 0.446                      |
|                  | Right Tilted      | 0.042         | 0.083         | 0.186         | 0.021             | 0.059             | 0.311                      | 0.249                      | 0.287                      |
|                  | Left Cheek        | 0.486         | 0.309         | 0.259         | 0.276             | 0.222             | 1.054                      | 1.021                      | 0.967                      |
|                  | Left Tilted       | 0.065         | 0.266         | 0.323         | 0.071             | 0.192             | 0.654                      | 0.459                      | 0.580                      |
| GSM1900_UAT      | Right Cheek       | 0.384         | 0.087         | 0.140         | 0.033             | 0.063             | 0.611                      | 0.557                      | 0.587                      |
|                  | Right Tilted      | 0.448         | 0.083         | 0.186         | 0.021             | 0.059             | 0.717                      | 0.655                      | 0.693                      |
|                  | Left Cheek        | 0.264         | 0.309         | 0.259         | 0.276             | 0.222             | 0.832                      | 0.799                      | 0.745                      |
|                  | Left Tilted       | 0.342         | 0.266         | 0.323         | 0.071             | 0.192             | 0.931                      | 0.736                      | 0.857                      |
| WCDMA V_UAT      | Right Cheek       | 0.482         | 0.087         | 0.140         | 0.033             | 0.063             | 0.709                      | 0.655                      | 0.685                      |
|                  | Right Tilted      | 0.089         | 0.083         | 0.186         | 0.021             | 0.059             | 0.358                      | 0.296                      | 0.334                      |
|                  | Left Cheek        | 0.656         | 0.309         | 0.259         | 0.276             | 0.222             | 1.224                      | 1.191                      | 1.137                      |
|                  | Left Tilted       | 0.089         | 0.266         | 0.323         | 0.071             | 0.192             | 0.678                      | 0.483                      | 0.604                      |
| WCDMA IV_UAT     | Right Cheek       | 0.483         | 0.087         | 0.140         | 0.033             | 0.063             | 0.710                      | 0.656                      | 0.686                      |
|                  | Right Tilted      | 0.668         | 0.083         | 0.186         | 0.021             | 0.059             | 0.937                      | 0.875                      | 0.913                      |
|                  | Left Cheek        | 0.322         | 0.309         | 0.259         | 0.276             | 0.222             | 0.890                      | 0.857                      | 0.803                      |
|                  | Left Tilted       | 0.416         | 0.266         | 0.323         | 0.071             | 0.192             | 1.005                      | 0.810                      | 0.931                      |
| WCDMA II_UAT     | Right Cheek       | 0.613         | 0.087         | 0.140         | 0.033             | 0.063             | 0.840                      | 0.786                      | 0.816                      |
|                  | Right Tilted      | 0.741         | 0.083         | 0.186         | 0.021             | 0.059             | 1.010                      | 0.948                      | 0.986                      |
|                  | Left Cheek        | 0.459         | 0.309         | 0.259         | 0.276             | 0.222             | 1.027                      | 0.994                      | 0.940                      |
|                  | Left Tilted       | 0.542         | 0.266         | 0.323         | 0.071             | 0.192             | 1.131                      | 0.936                      | 1.057                      |
| CDMA2000 BC0_UAT | Right Cheek       | 0.478         | 0.087         | 0.140         | 0.033             | 0.063             | 0.705                      | 0.651                      | 0.681                      |
|                  | Right Tilted      | 0.094         | 0.083         | 0.186         | 0.021             | 0.059             | 0.363                      | 0.301                      | 0.339                      |



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|--------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                          | Left Cheek   | 0.680 | 0.309 | 0.259 | 0.276 | 0.222 | 1.248 | 1.215 | 1.161 |
|                          | Left Tilted  | 0.094 | 0.266 | 0.323 | 0.071 | 0.192 | 0.683 | 0.488 | 0.609 |
| CDMA2000<br>BC10_UAT     | Right Cheek  | 0.484 | 0.087 | 0.140 | 0.033 | 0.063 | 0.711 | 0.657 | 0.687 |
|                          | Right Tilted | 0.093 | 0.083 | 0.186 | 0.021 | 0.059 | 0.362 | 0.300 | 0.338 |
|                          | Left Cheek   | 0.713 | 0.309 | 0.259 | 0.276 | 0.222 | 1.281 | 1.248 | 1.194 |
|                          | Left Tilted  | 0.105 | 0.266 | 0.323 | 0.071 | 0.192 | 0.694 | 0.499 | 0.620 |
| CDMA2000<br>BC1_UAT      | Right Cheek  | 0.795 | 0.087 | 0.140 | 0.033 | 0.063 | 1.022 | 0.968 | 0.998 |
|                          | Right Tilted | 0.697 | 0.083 | 0.186 | 0.021 | 0.059 | 0.966 | 0.904 | 0.942 |
|                          | Left Cheek   | 0.718 | 0.309 | 0.259 | 0.276 | 0.222 | 1.286 | 1.253 | 1.199 |
|                          | Left Tilted  | 0.686 | 0.266 | 0.323 | 0.071 | 0.192 | 1.275 | 1.080 | 1.201 |
| LTE Band<br>71_UAT       | Right Cheek  | 0.600 | 0.087 | 0.140 | 0.033 | 0.063 | 0.827 | 0.773 | 0.803 |
|                          | Right Tilted | 0.136 | 0.083 | 0.186 | 0.021 | 0.059 | 0.405 | 0.343 | 0.381 |
|                          | Left Cheek   | 0.707 | 0.309 | 0.259 | 0.276 | 0.222 | 1.275 | 1.242 | 1.188 |
|                          | Left Tilted  | 0.115 | 0.266 | 0.323 | 0.071 | 0.192 | 0.704 | 0.509 | 0.630 |
| LTE Band<br>12_UAT       | Right Cheek  | 0.519 | 0.087 | 0.140 | 0.033 | 0.063 | 0.746 | 0.692 | 0.722 |
|                          | Right Tilted | 0.106 | 0.083 | 0.186 | 0.021 | 0.059 | 0.375 | 0.313 | 0.351 |
|                          | Left Cheek   | 0.605 | 0.309 | 0.259 | 0.276 | 0.222 | 1.173 | 1.140 | 1.086 |
|                          | Left Tilted  | 0.110 | 0.266 | 0.323 | 0.071 | 0.192 | 0.699 | 0.504 | 0.625 |
| LTE Band<br>13_UAT       | Right Cheek  | 0.550 | 0.087 | 0.140 | 0.033 | 0.063 | 0.777 | 0.723 | 0.753 |
|                          | Right Tilted | 0.113 | 0.083 | 0.186 | 0.021 | 0.059 | 0.382 | 0.320 | 0.358 |
|                          | Left Cheek   | 0.714 | 0.309 | 0.259 | 0.276 | 0.222 | 1.282 | 1.249 | 1.195 |
|                          | Left Tilted  | 0.111 | 0.266 | 0.323 | 0.071 | 0.192 | 0.700 | 0.505 | 0.626 |
| LTE Band<br>5_UAT        | Right Cheek  | 0.413 | 0.087 | 0.140 | 0.033 | 0.063 | 0.640 | 0.586 | 0.616 |
|                          | Right Tilted | 0.090 | 0.083 | 0.186 | 0.021 | 0.059 | 0.359 | 0.297 | 0.335 |
|                          | Left Cheek   | 0.604 | 0.309 | 0.259 | 0.276 | 0.222 | 1.172 | 1.139 | 1.085 |
|                          | Left Tilted  | 0.092 | 0.266 | 0.323 | 0.071 | 0.192 | 0.681 | 0.486 | 0.607 |
| LTE Band<br>26_UAT       | Right Cheek  | 0.291 | 0.087 | 0.140 | 0.033 | 0.063 | 0.518 | 0.464 | 0.494 |
|                          | Right Tilted | 0.085 | 0.083 | 0.186 | 0.021 | 0.059 | 0.354 | 0.292 | 0.330 |
|                          | Left Cheek   | 0.712 | 0.309 | 0.259 | 0.276 | 0.222 | 1.280 | 1.247 | 1.193 |
|                          | Left Tilted  | 0.104 | 0.266 | 0.323 | 0.071 | 0.192 | 0.693 | 0.498 | 0.619 |
| LTE Band<br>66_UAT       | Right Cheek  | 0.509 | 0.087 | 0.140 | 0.033 | 0.063 | 0.736 | 0.682 | 0.712 |
|                          | Right Tilted | 0.736 | 0.083 | 0.186 | 0.021 | 0.059 | 1.005 | 0.943 | 0.981 |
|                          | Left Cheek   | 0.345 | 0.309 | 0.259 | 0.276 | 0.222 | 0.913 | 0.880 | 0.826 |
|                          | Left Tilted  | 0.465 | 0.266 | 0.323 | 0.071 | 0.192 | 1.054 | 0.859 | 0.980 |
| LTE Band<br>25_UAT       | Right Cheek  | 0.687 | 0.087 | 0.140 | 0.033 | 0.063 | 0.914 | 0.860 | 0.890 |
|                          | Right Tilted | 0.896 | 0.083 | 0.186 | 0.021 | 0.059 | 1.165 | 1.103 | 1.141 |
|                          | Left Cheek   | 0.533 | 0.309 | 0.259 | 0.276 | 0.222 | 1.101 | 1.068 | 1.014 |
|                          | Left Tilted  | 0.639 | 0.266 | 0.323 | 0.071 | 0.192 | 1.228 | 1.033 | 1.154 |
| LTE Band<br>30_UAT       | Right Cheek  | 0.775 | 0.087 | 0.140 | 0.033 | 0.063 | 1.002 | 0.948 | 0.978 |
|                          | Right Tilted | 0.898 | 0.083 | 0.186 | 0.021 | 0.059 | 1.167 | 1.105 | 1.143 |
|                          | Left Cheek   | 0.640 | 0.309 | 0.259 | 0.276 | 0.222 | 1.208 | 1.175 | 1.121 |
|                          | Left Tilted  | 0.677 | 0.266 | 0.323 | 0.071 | 0.192 | 1.266 | 1.071 | 1.192 |
| LTE Band<br>7_UAT        | Right Cheek  | 0.770 | 0.087 | 0.140 | 0.033 | 0.063 | 0.997 | 0.943 | 0.973 |
|                          | Right Tilted | 0.687 | 0.083 | 0.186 | 0.021 | 0.059 | 0.956 | 0.894 | 0.932 |
|                          | Left Cheek   | 0.468 | 0.309 | 0.259 | 0.276 | 0.222 | 1.036 | 1.003 | 0.949 |
|                          | Left Tilted  | 0.555 | 0.266 | 0.323 | 0.071 | 0.192 | 1.144 | 0.949 | 1.070 |
| LTE Band<br>41_UAT       | Right Cheek  | 0.761 | 0.087 | 0.140 | 0.033 | 0.063 | 0.988 | 0.934 | 0.964 |
|                          | Right Tilted | 0.467 | 0.083 | 0.186 | 0.021 | 0.059 | 0.736 | 0.674 | 0.712 |
|                          | Left Cheek   | 0.403 | 0.309 | 0.259 | 0.276 | 0.222 | 0.971 | 0.938 | 0.884 |
|                          | Left Tilted  | 0.417 | 0.266 | 0.323 | 0.071 | 0.192 | 1.006 | 0.811 | 0.932 |
| LTE Band<br>41(HPUE)_UAT | Right Cheek  | 0.714 | 0.087 | 0.140 | 0.033 | 0.063 | 0.941 | 0.887 | 0.917 |
|                          | Right Tilted | 0.410 | 0.083 | 0.186 | 0.021 | 0.059 | 0.679 | 0.617 | 0.655 |
|                          | Left Cheek   | 0.337 | 0.309 | 0.259 | 0.276 | 0.222 | 0.905 | 0.872 | 0.818 |
|                          | Left Tilted  | 0.343 | 0.266 | 0.323 | 0.071 | 0.192 | 0.932 | 0.737 | 0.858 |
| LTE Band<br>48_UAT       | Right Cheek  | 0.522 | 0.087 | 0.140 | 0.033 | 0.063 | 0.749 | 0.695 | 0.725 |
|                          | Right Tilted | 0.912 | 0.083 | 0.186 | 0.021 | 0.059 | 1.181 | 1.119 | 1.157 |



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|  |             |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | Left Cheek  | 0.302 | 0.309 | 0.259 | 0.276 | 0.222 | 0.870 | 0.837 | 0.783 |
|  | Left Tilted | 0.343 | 0.266 | 0.323 | 0.071 | 0.192 | 0.932 | 0.737 | 0.858 |

| WWAN Band         | Exposure Position | 1             | 2             | 4             | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|-------------------|-------------------|---------------|---------------|---------------|--------------------------------|--------------------------------|
|                   |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     |                                |                                |
|                   |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |                                |                                |
| GSM850_LAT        | Right Cheek       | 0.126         | 0.136         | 0.234         | 0.262                          | 0.360                          |
|                   | Right Tilted      | 0.078         | 0.130         | 0.270         | 0.208                          | 0.348                          |
|                   | Left Cheek        | 0.207         | 0.488         | 0.322         | 0.695                          | 0.529                          |
|                   | Left Tilted       | 0.061         | 0.420         | 0.561         | 0.481                          | 0.622                          |
| GSM1900_LAT       | Right Cheek       | 0.142         | 0.136         | 0.234         | 0.278                          | 0.376                          |
|                   | Right Tilted      | 0.122         | 0.130         | 0.270         | 0.252                          | 0.392                          |
|                   | Left Cheek        | 0.099         | 0.488         | 0.322         | 0.587                          | 0.421                          |
|                   | Left Tilted       | 0.097         | 0.420         | 0.561         | 0.517                          | 0.658                          |
| WCDMA V_LAT       | Right Cheek       | 0.144         | 0.136         | 0.234         | 0.280                          | 0.378                          |
|                   | Right Tilted      | 0.073         | 0.130         | 0.270         | 0.203                          | 0.343                          |
|                   | Left Cheek        | 0.192         | 0.488         | 0.322         | 0.680                          | 0.514                          |
|                   | Left Tilted       | 0.089         | 0.420         | 0.561         | 0.509                          | 0.650                          |
| WCDMA IV_LAT      | Right Cheek       | 0.218         | 0.136         | 0.234         | 0.354                          | 0.452                          |
|                   | Right Tilted      | 0.120         | 0.130         | 0.270         | 0.250                          | 0.390                          |
|                   | Left Cheek        | 0.295         | 0.488         | 0.322         | 0.783                          | 0.617                          |
|                   | Left Tilted       | 0.118         | 0.420         | 0.561         | 0.538                          | 0.679                          |
| WCDMA II_LAT      | Right Cheek       | 0.288         | 0.136         | 0.234         | 0.424                          | 0.522                          |
|                   | Right Tilted      | 0.231         | 0.130         | 0.270         | 0.361                          | 0.501                          |
|                   | Left Cheek        | 0.209         | 0.488         | 0.322         | 0.697                          | 0.531                          |
|                   | Left Tilted       | 0.175         | 0.420         | 0.561         | 0.595                          | 0.736                          |
| CDMA2000 BC0_LAT  | Right Cheek       | 0.152         | 0.136         | 0.234         | 0.288                          | 0.386                          |
|                   | Right Tilted      | 0.095         | 0.130         | 0.270         | 0.225                          | 0.365                          |
|                   | Left Cheek        | 0.177         | 0.488         | 0.322         | 0.665                          | 0.499                          |
|                   | Left Tilted       | 0.069         | 0.420         | 0.561         | 0.489                          | 0.630                          |
| CDMA2000 BC10_LAT | Right Cheek       | 0.149         | 0.136         | 0.234         | 0.285                          | 0.383                          |
|                   | Right Tilted      | 0.093         | 0.130         | 0.270         | 0.223                          | 0.363                          |
|                   | Left Cheek        | 0.167         | 0.488         | 0.322         | 0.655                          | 0.489                          |
|                   | Left Tilted       | 0.072         | 0.420         | 0.561         | 0.492                          | 0.633                          |
| CDMA2000 BC1_LAT  | Right Cheek       | 0.330         | 0.136         | 0.234         | 0.466                          | 0.564                          |
|                   | Right Tilted      | 0.214         | 0.130         | 0.270         | 0.344                          | 0.484                          |
|                   | Left Cheek        | 0.191         | 0.488         | 0.322         | 0.679                          | 0.513                          |
|                   | Left Tilted       | 0.172         | 0.420         | 0.561         | 0.592                          | 0.733                          |
| LTE Band 71_LAT   | Right Cheek       | 0.109         | 0.136         | 0.234         | 0.245                          | 0.343                          |
|                   | Right Tilted      | 0.054         | 0.130         | 0.270         | 0.184                          | 0.324                          |
|                   | Left Cheek        | 0.115         | 0.488         | 0.322         | 0.603                          | 0.437                          |
|                   | Left Tilted       | 0.051         | 0.420         | 0.561         | 0.471                          | 0.612                          |
| LTE Band 12_LAT   | Right Cheek       | 0.168         | 0.136         | 0.234         | 0.304                          | 0.402                          |
|                   | Right Tilted      | 0.095         | 0.130         | 0.270         | 0.225                          | 0.365                          |
|                   | Left Cheek        | 0.206         | 0.488         | 0.322         | 0.694                          | 0.528                          |
|                   | Left Tilted       | 0.084         | 0.420         | 0.561         | 0.504                          | 0.645                          |
| LTE Band 13_LAT   | Right Cheek       | 0.116         | 0.136         | 0.234         | 0.252                          | 0.350                          |
|                   | Right Tilted      | 0.056         | 0.130         | 0.270         | 0.186                          | 0.326                          |
|                   | Left Cheek        | 0.148         | 0.488         | 0.322         | 0.636                          | 0.470                          |
|                   | Left Tilted       | 0.050         | 0.420         | 0.561         | 0.470                          | 0.611                          |
| LTE Band 5_LAT    | Right Cheek       | 0.145         | 0.136         | 0.234         | 0.281                          | 0.379                          |
|                   | Right Tilted      | 0.089         | 0.130         | 0.270         | 0.219                          | 0.359                          |
|                   | Left Cheek        | 0.205         | 0.488         | 0.322         | 0.693                          | 0.527                          |
|                   | Left Tilted       | 0.088         | 0.420         | 0.561         | 0.508                          | 0.649                          |
| LTE Band 26_LAT   | Right Cheek       | 0.082         | 0.136         | 0.234         | 0.218                          | 0.316                          |
|                   | Right Tilted      | 0.091         | 0.130         | 0.270         | 0.221                          | 0.361                          |



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|                       |              |       |       |       |       |       |
|-----------------------|--------------|-------|-------|-------|-------|-------|
|                       | Left Cheek   | 0.199 | 0.488 | 0.322 | 0.687 | 0.521 |
|                       | Left Tilted  | 0.073 | 0.420 | 0.561 | 0.493 | 0.634 |
| LTE Band 66_LAT       | Right Cheek  | 0.272 | 0.136 | 0.234 | 0.408 | 0.506 |
|                       | Right Tilted | 0.141 | 0.130 | 0.270 | 0.271 | 0.411 |
|                       | Left Cheek   | 0.228 | 0.488 | 0.322 | 0.716 | 0.550 |
|                       | Left Tilted  | 0.099 | 0.420 | 0.561 | 0.519 | 0.660 |
| LTE Band 25_LAT       | Right Cheek  | 0.355 | 0.136 | 0.234 | 0.491 | 0.589 |
|                       | Right Tilted | 0.184 | 0.130 | 0.270 | 0.314 | 0.454 |
|                       | Left Cheek   | 0.178 | 0.488 | 0.322 | 0.666 | 0.500 |
|                       | Left Tilted  | 0.137 | 0.420 | 0.561 | 0.557 | 0.698 |
| LTE Band 30_LAT       | Right Cheek  | 0.235 | 0.136 | 0.234 | 0.371 | 0.469 |
|                       | Right Tilted | 0.104 | 0.130 | 0.270 | 0.234 | 0.374 |
|                       | Left Cheek   | 0.382 | 0.488 | 0.322 | 0.870 | 0.704 |
|                       | Left Tilted  | 0.139 | 0.420 | 0.561 | 0.559 | 0.700 |
| LTE Band 7_LAT        | Right Cheek  | 0.200 | 0.136 | 0.234 | 0.336 | 0.434 |
|                       | Right Tilted | 0.194 | 0.130 | 0.270 | 0.324 | 0.464 |
|                       | Left Cheek   | 0.357 | 0.488 | 0.322 | 0.845 | 0.679 |
|                       | Left Tilted  | 0.115 | 0.420 | 0.561 | 0.535 | 0.676 |
| LTE Band 41_LAT       | Right Cheek  | 0.125 | 0.136 | 0.234 | 0.261 | 0.359 |
|                       | Right Tilted | 0.098 | 0.130 | 0.270 | 0.228 | 0.368 |
|                       | Left Cheek   | 0.307 | 0.488 | 0.322 | 0.795 | 0.629 |
|                       | Left Tilted  | 0.046 | 0.420 | 0.561 | 0.466 | 0.607 |
| LTE Band 41(HPUE)_LAT | Right Cheek  | 0.155 | 0.136 | 0.234 | 0.291 | 0.389 |
|                       | Right Tilted | 0.115 | 0.130 | 0.270 | 0.245 | 0.385 |
|                       | Left Cheek   | 0.260 | 0.488 | 0.322 | 0.748 | 0.582 |
|                       | Left Tilted  | 0.076 | 0.420 | 0.561 | 0.496 | 0.637 |

| WWAN Band        | Exposure Position | 1             | 2             | 4             | 6                 | 7                 | 1+2+4 Summed<br>1g SAR (W/kg) | 1+4+6 Summed<br>1g SAR (W/kg) | 1+4+7 Summed<br>1g SAR (W/kg) |
|------------------|-------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
|                  |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                               |                               |                               |
|                  |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                               |                               |                               |
| GSM850_LAT       | Right Cheek       | 0.126         | 0.087         | 0.140         | 0.033             | 0.063             | 0.353                         | 0.299                         | 0.329                         |
|                  | Right Tilted      | 0.078         | 0.083         | 0.186         | 0.021             | 0.059             | 0.347                         | 0.285                         | 0.323                         |
|                  | Left Cheek        | 0.207         | 0.309         | 0.259         | 0.276             | 0.222             | 0.775                         | 0.742                         | 0.688                         |
|                  | Left Tilted       | 0.061         | 0.266         | 0.323         | 0.071             | 0.192             | 0.650                         | 0.455                         | 0.576                         |
| GSM1900_LAT      | Right Cheek       | 0.142         | 0.087         | 0.140         | 0.033             | 0.063             | 0.369                         | 0.315                         | 0.345                         |
|                  | Right Tilted      | 0.122         | 0.083         | 0.186         | 0.021             | 0.059             | 0.391                         | 0.329                         | 0.367                         |
|                  | Left Cheek        | 0.099         | 0.309         | 0.259         | 0.276             | 0.222             | 0.667                         | 0.634                         | 0.580                         |
|                  | Left Tilted       | 0.097         | 0.266         | 0.323         | 0.071             | 0.192             | 0.686                         | 0.491                         | 0.612                         |
| WCDMA V_LAT      | Right Cheek       | 0.144         | 0.087         | 0.140         | 0.033             | 0.063             | 0.371                         | 0.317                         | 0.347                         |
|                  | Right Tilted      | 0.073         | 0.083         | 0.186         | 0.021             | 0.059             | 0.342                         | 0.280                         | 0.318                         |
|                  | Left Cheek        | 0.192         | 0.309         | 0.259         | 0.276             | 0.222             | 0.760                         | 0.727                         | 0.673                         |
|                  | Left Tilted       | 0.089         | 0.266         | 0.323         | 0.071             | 0.192             | 0.678                         | 0.483                         | 0.604                         |
| WCDMA IV_LAT     | Right Cheek       | 0.218         | 0.087         | 0.140         | 0.033             | 0.063             | 0.445                         | 0.391                         | 0.421                         |
|                  | Right Tilted      | 0.120         | 0.083         | 0.186         | 0.021             | 0.059             | 0.389                         | 0.327                         | 0.365                         |
|                  | Left Cheek        | 0.295         | 0.309         | 0.259         | 0.276             | 0.222             | 0.863                         | 0.830                         | 0.776                         |
|                  | Left Tilted       | 0.118         | 0.266         | 0.323         | 0.071             | 0.192             | 0.707                         | 0.512                         | 0.633                         |
| WCDMA II_LAT     | Right Cheek       | 0.288         | 0.087         | 0.140         | 0.033             | 0.063             | 0.515                         | 0.461                         | 0.491                         |
|                  | Right Tilted      | 0.231         | 0.083         | 0.186         | 0.021             | 0.059             | 0.500                         | 0.438                         | 0.476                         |
|                  | Left Cheek        | 0.209         | 0.309         | 0.259         | 0.276             | 0.222             | 0.777                         | 0.744                         | 0.690                         |
|                  | Left Tilted       | 0.175         | 0.266         | 0.323         | 0.071             | 0.192             | 0.764                         | 0.569                         | 0.690                         |
| CDMA2000 BCO_LAT | Right Cheek       | 0.152         | 0.087         | 0.140         | 0.033             | 0.063             | 0.379                         | 0.325                         | 0.355                         |
|                  | Right Tilted      | 0.095         | 0.083         | 0.186         | 0.021             | 0.059             | 0.364                         | 0.302                         | 0.340                         |
|                  | Left Cheek        | 0.177         | 0.309         | 0.259         | 0.276             | 0.222             | 0.745                         | 0.712                         | 0.658                         |
|                  | Left Tilted       | 0.069         | 0.266         | 0.323         | 0.071             | 0.192             | 0.658                         | 0.463                         | 0.584                         |
| CDMA2000         | Right Cheek       | 0.149         | 0.087         | 0.140         | 0.033             | 0.063             | 0.376                         | 0.322                         | 0.352                         |



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|                          |              |       |       |       |       |       |       |       |       |
|--------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| BC10_LAT                 | Right Tilted | 0.093 | 0.083 | 0.186 | 0.021 | 0.059 | 0.362 | 0.300 | 0.338 |
|                          | Left Cheek   | 0.167 | 0.309 | 0.259 | 0.276 | 0.222 | 0.735 | 0.702 | 0.648 |
|                          | Left Tilted  | 0.072 | 0.266 | 0.323 | 0.071 | 0.192 | 0.661 | 0.466 | 0.587 |
| CDMA2000<br>BC1_LAT      | Right Cheek  | 0.330 | 0.087 | 0.140 | 0.033 | 0.063 | 0.557 | 0.503 | 0.533 |
|                          | Right Tilted | 0.214 | 0.083 | 0.186 | 0.021 | 0.059 | 0.483 | 0.421 | 0.459 |
|                          | Left Cheek   | 0.191 | 0.309 | 0.259 | 0.276 | 0.222 | 0.759 | 0.726 | 0.672 |
|                          | Left Tilted  | 0.172 | 0.266 | 0.323 | 0.071 | 0.192 | 0.761 | 0.566 | 0.687 |
| LTE Band 71_LAT          | Right Cheek  | 0.109 | 0.087 | 0.140 | 0.033 | 0.063 | 0.336 | 0.282 | 0.312 |
|                          | Right Tilted | 0.054 | 0.083 | 0.186 | 0.021 | 0.059 | 0.323 | 0.261 | 0.299 |
|                          | Left Cheek   | 0.115 | 0.309 | 0.259 | 0.276 | 0.222 | 0.683 | 0.650 | 0.596 |
|                          | Left Tilted  | 0.051 | 0.266 | 0.323 | 0.071 | 0.192 | 0.640 | 0.445 | 0.566 |
| LTE Band 12_LAT          | Right Cheek  | 0.168 | 0.087 | 0.140 | 0.033 | 0.063 | 0.395 | 0.341 | 0.371 |
|                          | Right Tilted | 0.095 | 0.083 | 0.186 | 0.021 | 0.059 | 0.364 | 0.302 | 0.340 |
|                          | Left Cheek   | 0.206 | 0.309 | 0.259 | 0.276 | 0.222 | 0.774 | 0.741 | 0.687 |
|                          | Left Tilted  | 0.084 | 0.266 | 0.323 | 0.071 | 0.192 | 0.673 | 0.478 | 0.599 |
| LTE Band 13_LAT          | Right Cheek  | 0.116 | 0.087 | 0.140 | 0.033 | 0.063 | 0.343 | 0.289 | 0.319 |
|                          | Right Tilted | 0.056 | 0.083 | 0.186 | 0.021 | 0.059 | 0.325 | 0.263 | 0.301 |
|                          | Left Cheek   | 0.148 | 0.309 | 0.259 | 0.276 | 0.222 | 0.716 | 0.683 | 0.629 |
|                          | Left Tilted  | 0.050 | 0.266 | 0.323 | 0.071 | 0.192 | 0.639 | 0.444 | 0.565 |
| LTE Band 5_LAT           | Right Cheek  | 0.145 | 0.087 | 0.140 | 0.033 | 0.063 | 0.372 | 0.318 | 0.348 |
|                          | Right Tilted | 0.089 | 0.083 | 0.186 | 0.021 | 0.059 | 0.358 | 0.296 | 0.334 |
|                          | Left Cheek   | 0.205 | 0.309 | 0.259 | 0.276 | 0.222 | 0.773 | 0.740 | 0.686 |
|                          | Left Tilted  | 0.088 | 0.266 | 0.323 | 0.071 | 0.192 | 0.677 | 0.482 | 0.603 |
| LTE Band 26_LAT          | Right Cheek  | 0.082 | 0.087 | 0.140 | 0.033 | 0.063 | 0.309 | 0.255 | 0.285 |
|                          | Right Tilted | 0.091 | 0.083 | 0.186 | 0.021 | 0.059 | 0.360 | 0.298 | 0.336 |
|                          | Left Cheek   | 0.199 | 0.309 | 0.259 | 0.276 | 0.222 | 0.767 | 0.734 | 0.680 |
|                          | Left Tilted  | 0.073 | 0.266 | 0.323 | 0.071 | 0.192 | 0.662 | 0.467 | 0.588 |
| LTE Band 66_LAT          | Right Cheek  | 0.272 | 0.087 | 0.140 | 0.033 | 0.063 | 0.499 | 0.445 | 0.475 |
|                          | Right Tilted | 0.141 | 0.083 | 0.186 | 0.021 | 0.059 | 0.410 | 0.348 | 0.386 |
|                          | Left Cheek   | 0.228 | 0.309 | 0.259 | 0.276 | 0.222 | 0.796 | 0.763 | 0.709 |
|                          | Left Tilted  | 0.099 | 0.266 | 0.323 | 0.071 | 0.192 | 0.688 | 0.493 | 0.614 |
| LTE Band 25_LAT          | Right Cheek  | 0.355 | 0.087 | 0.140 | 0.033 | 0.063 | 0.582 | 0.528 | 0.558 |
|                          | Right Tilted | 0.184 | 0.083 | 0.186 | 0.021 | 0.059 | 0.453 | 0.391 | 0.429 |
|                          | Left Cheek   | 0.178 | 0.309 | 0.259 | 0.276 | 0.222 | 0.746 | 0.713 | 0.659 |
|                          | Left Tilted  | 0.137 | 0.266 | 0.323 | 0.071 | 0.192 | 0.726 | 0.531 | 0.652 |
| LTE Band 30_LAT          | Right Cheek  | 0.235 | 0.087 | 0.140 | 0.033 | 0.063 | 0.462 | 0.408 | 0.438 |
|                          | Right Tilted | 0.104 | 0.083 | 0.186 | 0.021 | 0.059 | 0.373 | 0.311 | 0.349 |
|                          | Left Cheek   | 0.382 | 0.309 | 0.259 | 0.276 | 0.222 | 0.950 | 0.917 | 0.863 |
|                          | Left Tilted  | 0.139 | 0.266 | 0.323 | 0.071 | 0.192 | 0.728 | 0.533 | 0.654 |
| LTE Band 7_LAT           | Right Cheek  | 0.200 | 0.087 | 0.140 | 0.033 | 0.063 | 0.427 | 0.373 | 0.403 |
|                          | Right Tilted | 0.194 | 0.083 | 0.186 | 0.021 | 0.059 | 0.463 | 0.401 | 0.439 |
|                          | Left Cheek   | 0.357 | 0.309 | 0.259 | 0.276 | 0.222 | 0.925 | 0.892 | 0.838 |
|                          | Left Tilted  | 0.115 | 0.266 | 0.323 | 0.071 | 0.192 | 0.704 | 0.509 | 0.630 |
| LTE Band 41_LAT          | Right Cheek  | 0.125 | 0.087 | 0.140 | 0.033 | 0.063 | 0.352 | 0.298 | 0.328 |
|                          | Right Tilted | 0.098 | 0.083 | 0.186 | 0.021 | 0.059 | 0.367 | 0.305 | 0.343 |
|                          | Left Cheek   | 0.307 | 0.309 | 0.259 | 0.276 | 0.222 | 0.875 | 0.842 | 0.788 |
|                          | Left Tilted  | 0.046 | 0.266 | 0.323 | 0.071 | 0.192 | 0.635 | 0.440 | 0.561 |
| LTE Band<br>41(HPUE)_LAT | Right Cheek  | 0.155 | 0.087 | 0.140 | 0.033 | 0.063 | 0.382 | 0.328 | 0.358 |
|                          | Right Tilted | 0.115 | 0.083 | 0.186 | 0.021 | 0.059 | 0.384 | 0.322 | 0.360 |
|                          | Left Cheek   | 0.260 | 0.309 | 0.259 | 0.276 | 0.222 | 0.828 | 0.795 | 0.741 |
|                          | Left Tilted  | 0.076 | 0.266 | 0.323 | 0.071 | 0.192 | 0.665 | 0.470 | 0.591 |

## 18.2 Hotspot Exposure Conditions

| WWAN Band         | Exposure Position | 1                        | 2                               | 4                             | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|-------------------|-------------------|--------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|
|                   |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz WLAN<br>1g SAR<br>(W/kg) | 5GHz WLAN<br>1g SAR<br>(W/kg) |                                |                                |
| GSM850_UAT        | Front             | 0.432                    | 0.122                           | 0.003                         | 0.554                          | 0.435                          |
|                   | Back              | 0.499                    | 0.618                           | 0.585                         | 1.117                          | 1.084                          |
|                   | Left side         | 0.852                    |                                 |                               | 0.852                          | 0.852                          |
|                   | Right side        | 0.015                    | 0.238                           | 0.674                         | 0.253                          | 0.689                          |
|                   | Top side          | 0.017                    | 0.158                           | 0.108                         | 0.175                          | 0.125                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| GSM1900_UAT       | Front             | 0.245                    | 0.122                           | 0.003                         | 0.367                          | 0.248                          |
|                   | Back              | 0.231                    | 0.618                           | 0.585                         | 0.849                          | 0.816                          |
|                   | Left side         | 0.001                    |                                 |                               | 0.001                          | 0.001                          |
|                   | Right side        | 0.001                    | 0.238                           | 0.674                         | 0.239                          | 0.675                          |
|                   | Top side          | 0.454                    | 0.158                           | 0.108                         | 0.612                          | 0.562                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| WCDMA V_UAT       | Front             | 0.481                    | 0.122                           | 0.003                         | 0.603                          | 0.484                          |
|                   | Back              | 0.581                    | 0.618                           | 0.585                         | 1.199                          | 1.166                          |
|                   | Left side         | 0.862                    |                                 |                               | 0.862                          | 0.862                          |
|                   | Right side        | 0.022                    | 0.238                           | 0.674                         | 0.260                          | 0.696                          |
|                   | Top side          | 0.016                    | 0.158                           | 0.108                         | 0.174                          | 0.124                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| WCDMA IV_UAT      | Front             | 0.536                    | 0.122                           | 0.003                         | 0.658                          | 0.539                          |
|                   | Back              | 0.610                    | 0.618                           | 0.585                         | 1.228                          | 1.195                          |
|                   | Left side         | 0.208                    |                                 |                               | 0.208                          | 0.208                          |
|                   | Right side        | 0.001                    | 0.238                           | 0.674                         | 0.239                          | 0.675                          |
|                   | Top side          | 0.823                    | 0.158                           | 0.108                         | 0.981                          | 0.931                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| WCDMA II_UAT      | Front             | 0.414                    | 0.122                           | 0.003                         | 0.536                          | 0.417                          |
|                   | Back              | 0.570                    | 0.618                           | 0.585                         | 1.188                          | 1.155                          |
|                   | Left side         | 0.127                    |                                 |                               | 0.127                          | 0.127                          |
|                   | Right side        | 0.074                    | 0.238                           | 0.674                         | 0.312                          | 0.748                          |
|                   | Top side          | 0.843                    | 0.158                           | 0.108                         | 1.001                          | 0.951                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| CDMA2000 BC0_UAT  | Front             | 0.405                    | 0.122                           | 0.003                         | 0.527                          | 0.408                          |
|                   | Back              | 0.439                    | 0.618                           | 0.585                         | 1.057                          | 1.024                          |
|                   | Left side         | 0.719                    |                                 |                               | 0.719                          | 0.719                          |
|                   | Right side        | 0.023                    | 0.238                           | 0.674                         | 0.261                          | 0.697                          |
|                   | Top side          | 0.018                    | 0.158                           | 0.108                         | 0.176                          | 0.126                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| CDMA2000 BC10_UAT | Front             | 0.436                    | 0.122                           | 0.003                         | 0.558                          | 0.439                          |
|                   | Back              | 0.488                    | 0.618                           | 0.585                         | 1.106                          | 1.073                          |
|                   | Left side         | 0.726                    |                                 |                               | 0.726                          | 0.726                          |
|                   | Right side        | 0.026                    | 0.238                           | 0.674                         | 0.264                          | 0.700                          |
|                   | Top side          | 0.019                    | 0.158                           | 0.108                         | 0.177                          | 0.127                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| CDMA2000 BC1_UAT  | Front             | 0.166                    | 0.122                           | 0.003                         | 0.288                          | 0.169                          |
|                   | Back              | 0.187                    | 0.618                           | 0.585                         | 0.805                          | 0.772                          |
|                   | Left side         | 0.034                    |                                 |                               | 0.034                          | 0.034                          |
|                   | Right side        | 0.024                    | 0.238                           | 0.674                         | 0.262                          | 0.698                          |
|                   | Top side          | 0.307                    | 0.158                           | 0.108                         | 0.465                          | 0.415                          |
|                   | Bottom side       |                          |                                 |                               | 0.000                          | 0.000                          |
| LTE Band 71_UAT   | Front             | 0.456                    | 0.122                           | 0.003                         | 0.578                          | 0.459                          |
|                   | Back              | 0.535                    | 0.618                           | 0.585                         | 1.153                          | 1.120                          |
|                   | Left side         | 0.655                    |                                 |                               | 0.655                          | 0.655                          |



|                 |             |       |       |       |       |       |
|-----------------|-------------|-------|-------|-------|-------|-------|
|                 | Right side  | 0.137 | 0.238 | 0.674 | 0.375 | 0.811 |
|                 | Top side    | 0.024 | 0.158 | 0.108 | 0.182 | 0.132 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 12_UAT | Front       | 0.621 | 0.122 | 0.003 | 0.743 | 0.624 |
|                 | Back        | 0.641 | 0.618 | 0.585 | 1.259 | 1.226 |
|                 | Left side   | 0.890 |       |       | 0.890 | 0.890 |
|                 | Right side  | 0.048 | 0.238 | 0.674 | 0.286 | 0.722 |
|                 | Top side    | 0.012 | 0.158 | 0.108 | 0.170 | 0.120 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 13_UAT | Front       | 0.472 | 0.122 | 0.003 | 0.594 | 0.475 |
|                 | Back        | 0.519 | 0.618 | 0.585 | 1.137 | 1.104 |
|                 | Left side   | 0.764 |       |       | 0.764 | 0.764 |
|                 | Right side  | 0.031 | 0.238 | 0.674 | 0.269 | 0.705 |
|                 | Top side    | 0.069 | 0.158 | 0.108 | 0.227 | 0.177 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 5_UAT  | Front       | 0.619 | 0.122 | 0.003 | 0.741 | 0.622 |
|                 | Back        | 0.617 | 0.618 | 0.585 | 1.235 | 1.202 |
|                 | Left side   | 0.882 |       |       | 0.882 | 0.882 |
|                 | Right side  | 0.020 | 0.238 | 0.674 | 0.258 | 0.694 |
|                 | Top side    | 0.014 | 0.158 | 0.108 | 0.172 | 0.122 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 26_UAT | Front       | 0.466 | 0.122 | 0.003 | 0.588 | 0.469 |
|                 | Back        | 0.501 | 0.618 | 0.585 | 1.119 | 1.086 |
|                 | Left side   | 0.838 |       |       | 0.838 | 0.838 |
|                 | Right side  | 0.020 | 0.238 | 0.674 | 0.258 | 0.694 |
|                 | Top side    | 0.009 | 0.158 | 0.108 | 0.167 | 0.117 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 66_UAT | Front       | 0.515 | 0.122 | 0.003 | 0.637 | 0.518 |
|                 | Back        | 0.555 | 0.618 | 0.585 | 1.173 | 1.140 |
|                 | Left side   | 0.163 |       |       | 0.163 | 0.163 |
|                 | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                 | Top side    | 0.918 | 0.158 | 0.108 | 1.076 | 1.026 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 25_UAT | Front       | 0.388 | 0.122 | 0.003 | 0.510 | 0.391 |
|                 | Back        | 0.466 | 0.618 | 0.585 | 1.084 | 1.051 |
|                 | Left side   | 0.096 |       |       | 0.096 | 0.096 |
|                 | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                 | Top side    | 0.653 | 0.158 | 0.108 | 0.811 | 0.761 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 30_UAT | Front       | 0.474 | 0.122 | 0.003 | 0.596 | 0.477 |
|                 | Back        | 0.560 | 0.618 | 0.585 | 1.178 | 1.145 |
|                 | Left side   | 0.115 |       |       | 0.115 | 0.115 |
|                 | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                 | Top side    | 0.919 | 0.158 | 0.108 | 1.077 | 1.027 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 7_UAT  | Front       | 0.417 | 0.122 | 0.003 | 0.539 | 0.420 |
|                 | Back        | 0.444 | 0.618 | 0.585 | 1.062 | 1.029 |
|                 | Left side   | 0.001 |       |       | 0.001 | 0.001 |
|                 | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                 | Top side    | 0.919 | 0.158 | 0.108 | 1.077 | 1.027 |
|                 | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 41_UAT | Front       | 0.162 | 0.122 | 0.003 | 0.284 | 0.165 |
|                 | Back        | 0.272 | 0.618 | 0.585 | 0.890 | 0.857 |
|                 | Left side   | 0.001 |       |       | 0.001 | 0.001 |
|                 | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                 | Top side    | 0.792 | 0.158 | 0.108 | 0.950 | 0.900 |



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|                       |             |       |       |       |       |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|
|                       | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 41(HPUE)_UAT | Front       | 0.187 | 0.122 | 0.003 | 0.309 | 0.190 |
|                       | Back        | 0.337 | 0.618 | 0.585 | 0.955 | 0.922 |
|                       | Left side   | 0.001 |       |       | 0.001 | 0.001 |
|                       | Right side  | 0.001 | 0.238 | 0.674 | 0.239 | 0.675 |
|                       | Top side    | 0.920 | 0.158 | 0.108 | 1.078 | 1.028 |
|                       | Bottom side |       |       |       | 0.000 | 0.000 |
| LTE Band 48_UAT       | Front       | 0.267 | 0.122 | 0.003 | 0.389 | 0.270 |
|                       | Back        | 0.429 | 0.618 | 0.585 | 1.047 | 1.014 |
|                       | Left side   | 0.100 |       |       | 0.100 | 0.100 |
|                       | Right side  | 0.061 | 0.238 | 0.674 | 0.299 | 0.735 |
|                       | Top side    | 0.728 | 0.158 | 0.108 | 0.886 | 0.836 |
|                       | Bottom side |       |       |       | 0.000 | 0.000 |

| WWAN Band         | Exposure Position | 1                  | 2                         | 4                       | 6                               | 7                               | 1+2+4 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+4+7 Summed 1g SAR (W/kg) |
|-------------------|-------------------|--------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|
|                   |                   | WWAN 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                            |                            |
| GSM850_UAT        | Front             | 0.432              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.495                      | 0.482                      | 0.475                      |
|                   | Back              | 0.499              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.156                      | 1.039                      | 1.032                      |
|                   | Left side         | 0.852              |                           |                         |                                 |                                 | 0.852                      | 0.852                      | 0.852                      |
|                   | Right side        | 0.015              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.555                      | 0.562                      | 0.568                      |
|                   | Top side          | 0.017              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.166                      | 0.394                      | 0.139                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| GSM1900_UAT       | Front             | 0.245              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.308                      | 0.295                      | 0.288                      |
|                   | Back              | 0.231              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.888                      | 0.771                      | 0.764                      |
|                   | Left side         | 0.001              |                           |                         |                                 |                                 | 0.001                      | 0.001                      | 0.001                      |
|                   | Right side        | 0.001              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.541                      | 0.548                      | 0.554                      |
|                   | Top side          | 0.454              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.603                      | 0.831                      | 0.576                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| WCDMA V_UAT       | Front             | 0.481              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.544                      | 0.531                      | 0.524                      |
|                   | Back              | 0.581              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.238                      | 1.121                      | 1.114                      |
|                   | Left side         | 0.862              |                           |                         |                                 |                                 | 0.862                      | 0.862                      | 0.862                      |
|                   | Right side        | 0.022              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.562                      | 0.569                      | 0.575                      |
|                   | Top side          | 0.016              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.165                      | 0.393                      | 0.138                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| WCDMA IV_UAT      | Front             | 0.536              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.599                      | 0.586                      | 0.579                      |
|                   | Back              | 0.610              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.267                      | 1.150                      | 1.143                      |
|                   | Left side         | 0.208              |                           |                         |                                 |                                 | 0.208                      | 0.208                      | 0.208                      |
|                   | Right side        | 0.001              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.541                      | 0.548                      | 0.554                      |
|                   | Top side          | 0.823              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.972                      | 1.200                      | 0.945                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| WCDMA II_UAT      | Front             | 0.414              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.477                      | 0.464                      | 0.457                      |
|                   | Back              | 0.570              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.227                      | 1.110                      | 1.103                      |
|                   | Left side         | 0.127              |                           |                         |                                 |                                 | 0.127                      | 0.127                      | 0.127                      |
|                   | Right side        | 0.074              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.614                      | 0.621                      | 0.627                      |
|                   | Top side          | 0.843              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.992                      | 1.220                      | 0.965                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| CDMA2000 BC0_UAT  | Front             | 0.405              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.468                      | 0.455                      | 0.448                      |
|                   | Back              | 0.439              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.096                      | 0.979                      | 0.972                      |
|                   | Left side         | 0.719              |                           |                         |                                 |                                 | 0.719                      | 0.719                      | 0.719                      |
|                   | Right side        | 0.023              | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.563                      | 0.570                      | 0.576                      |
|                   | Top side          | 0.018              | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.167                      | 0.395                      | 0.140                      |
|                   | Bottom side       |                    |                           |                         |                                 |                                 | 0.000                      | 0.000                      | 0.000                      |
| CDMA2000 BC10_UAT | Front             | 0.436              | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.499                      | 0.486                      | 0.479                      |
|                   | Back              | 0.488              | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.145                      | 1.028                      | 1.021                      |
|                   | Left side         | 0.726              |                           |                         |                                 |                                 | 0.726                      | 0.726                      | 0.726                      |



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|                     |             |       |       |       |       |       |       |       |       |
|---------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     | Right side  | 0.026 | 0.120 | 0.420 | 0.127 | 0.133 | 0.566 | 0.573 | 0.579 |
|                     | Top side    | 0.019 | 0.081 | 0.068 | 0.309 | 0.054 | 0.168 | 0.396 | 0.141 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| CDMA2000<br>BC1_UAT | Front       | 0.166 | 0.061 | 0.002 | 0.048 | 0.041 | 0.229 | 0.216 | 0.209 |
|                     | Back        | 0.187 | 0.314 | 0.343 | 0.197 | 0.190 | 0.844 | 0.727 | 0.720 |
|                     | Left side   | 0.034 |       |       |       |       | 0.034 | 0.034 | 0.034 |
|                     | Right side  | 0.024 | 0.120 | 0.420 | 0.127 | 0.133 | 0.564 | 0.571 | 0.577 |
|                     | Top side    | 0.307 | 0.081 | 0.068 | 0.309 | 0.054 | 0.456 | 0.684 | 0.429 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>71_UAT  | Front       | 0.456 | 0.061 | 0.002 | 0.048 | 0.041 | 0.519 | 0.506 | 0.499 |
|                     | Back        | 0.535 | 0.314 | 0.343 | 0.197 | 0.190 | 1.192 | 1.075 | 1.068 |
|                     | Left side   | 0.655 |       |       |       |       | 0.655 | 0.655 | 0.655 |
|                     | Right side  | 0.137 | 0.120 | 0.420 | 0.127 | 0.133 | 0.677 | 0.684 | 0.690 |
|                     | Top side    | 0.024 | 0.081 | 0.068 | 0.309 | 0.054 | 0.173 | 0.401 | 0.146 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>12_UAT  | Front       | 0.621 | 0.061 | 0.002 | 0.048 | 0.041 | 0.684 | 0.671 | 0.664 |
|                     | Back        | 0.641 | 0.314 | 0.343 | 0.197 | 0.190 | 1.298 | 1.181 | 1.174 |
|                     | Left side   | 0.890 |       |       |       |       | 0.890 | 0.890 | 0.890 |
|                     | Right side  | 0.048 | 0.120 | 0.420 | 0.127 | 0.133 | 0.588 | 0.595 | 0.601 |
|                     | Top side    | 0.012 | 0.081 | 0.068 | 0.309 | 0.054 | 0.161 | 0.389 | 0.134 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>13_UAT  | Front       | 0.472 | 0.061 | 0.002 | 0.048 | 0.041 | 0.535 | 0.522 | 0.515 |
|                     | Back        | 0.519 | 0.314 | 0.343 | 0.197 | 0.190 | 1.176 | 1.059 | 1.052 |
|                     | Left side   | 0.764 |       |       |       |       | 0.764 | 0.764 | 0.764 |
|                     | Right side  | 0.031 | 0.120 | 0.420 | 0.127 | 0.133 | 0.571 | 0.578 | 0.584 |
|                     | Top side    | 0.069 | 0.081 | 0.068 | 0.309 | 0.054 | 0.218 | 0.446 | 0.191 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>5_UAT   | Front       | 0.619 | 0.061 | 0.002 | 0.048 | 0.041 | 0.682 | 0.669 | 0.662 |
|                     | Back        | 0.617 | 0.314 | 0.343 | 0.197 | 0.190 | 1.274 | 1.157 | 1.150 |
|                     | Left side   | 0.882 |       |       |       |       | 0.882 | 0.882 | 0.882 |
|                     | Right side  | 0.020 | 0.120 | 0.420 | 0.127 | 0.133 | 0.560 | 0.567 | 0.573 |
|                     | Top side    | 0.014 | 0.081 | 0.068 | 0.309 | 0.054 | 0.163 | 0.391 | 0.136 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>26_UAT  | Front       | 0.466 | 0.061 | 0.002 | 0.048 | 0.041 | 0.529 | 0.516 | 0.509 |
|                     | Back        | 0.501 | 0.314 | 0.343 | 0.197 | 0.190 | 1.158 | 1.041 | 1.034 |
|                     | Left side   | 0.838 |       |       |       |       | 0.838 | 0.838 | 0.838 |
|                     | Right side  | 0.020 | 0.120 | 0.420 | 0.127 | 0.133 | 0.560 | 0.567 | 0.573 |
|                     | Top side    | 0.009 | 0.081 | 0.068 | 0.309 | 0.054 | 0.158 | 0.386 | 0.131 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>66_UAT  | Front       | 0.515 | 0.061 | 0.002 | 0.048 | 0.041 | 0.578 | 0.565 | 0.558 |
|                     | Back        | 0.555 | 0.314 | 0.343 | 0.197 | 0.190 | 1.212 | 1.095 | 1.088 |
|                     | Left side   | 0.163 |       |       |       |       | 0.163 | 0.163 | 0.163 |
|                     | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                     | Top side    | 0.918 | 0.081 | 0.068 | 0.309 | 0.054 | 1.067 | 1.295 | 1.040 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>25_UAT  | Front       | 0.388 | 0.061 | 0.002 | 0.048 | 0.041 | 0.451 | 0.438 | 0.431 |
|                     | Back        | 0.466 | 0.314 | 0.343 | 0.197 | 0.190 | 1.123 | 1.006 | 0.999 |
|                     | Left side   | 0.096 |       |       |       |       | 0.096 | 0.096 | 0.096 |
|                     | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                     | Top side    | 0.653 | 0.081 | 0.068 | 0.309 | 0.054 | 0.802 | 1.030 | 0.775 |
|                     | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band<br>30_UAT  | Front       | 0.474 | 0.061 | 0.002 | 0.048 | 0.041 | 0.537 | 0.524 | 0.517 |
|                     | Back        | 0.560 | 0.314 | 0.343 | 0.197 | 0.190 | 1.217 | 1.100 | 1.093 |
|                     | Left side   | 0.115 |       |       |       |       | 0.115 | 0.115 | 0.115 |
|                     | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                     | Top side    | 0.919 | 0.081 | 0.068 | 0.309 | 0.054 | 1.068 | 1.296 | 1.041 |



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|                       |             |       |       |       |       |       |       |       |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band 7_UAT        | Front       | 0.417 | 0.061 | 0.002 | 0.048 | 0.041 | 0.480 | 0.467 | 0.460 |
|                       | Back        | 0.444 | 0.314 | 0.343 | 0.197 | 0.190 | 1.101 | 0.984 | 0.977 |
|                       | Left side   | 0.001 |       |       |       |       | 0.001 | 0.001 | 0.001 |
|                       | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                       | Top side    | 0.919 | 0.081 | 0.068 | 0.309 | 0.054 | 1.068 | 1.296 | 1.041 |
|                       | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band 41_UAT       | Front       | 0.162 | 0.061 | 0.002 | 0.048 | 0.041 | 0.225 | 0.212 | 0.205 |
|                       | Back        | 0.272 | 0.314 | 0.343 | 0.197 | 0.190 | 0.929 | 0.812 | 0.805 |
|                       | Left side   | 0.001 |       |       |       |       | 0.001 | 0.001 | 0.001 |
|                       | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                       | Top side    | 0.792 | 0.081 | 0.068 | 0.309 | 0.054 | 0.941 | 1.169 | 0.914 |
|                       | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band 41(HPUE)_UAT | Front       | 0.187 | 0.061 | 0.002 | 0.048 | 0.041 | 0.250 | 0.237 | 0.230 |
|                       | Back        | 0.337 | 0.314 | 0.343 | 0.197 | 0.190 | 0.994 | 0.877 | 0.870 |
|                       | Left side   | 0.001 |       |       |       |       | 0.001 | 0.001 | 0.001 |
|                       | Right side  | 0.001 | 0.120 | 0.420 | 0.127 | 0.133 | 0.541 | 0.548 | 0.554 |
|                       | Top side    | 0.920 | 0.081 | 0.068 | 0.309 | 0.054 | 1.069 | 1.297 | 1.042 |
|                       | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |
| LTE Band 48_UAT       | Front       | 0.267 | 0.061 | 0.002 | 0.048 | 0.041 | 0.330 | 0.317 | 0.310 |
|                       | Back        | 0.429 | 0.314 | 0.343 | 0.197 | 0.190 | 1.086 | 0.969 | 0.962 |
|                       | Left side   | 0.100 |       |       |       |       | 0.100 | 0.100 | 0.100 |
|                       | Right side  | 0.061 | 0.120 | 0.420 | 0.127 | 0.133 | 0.601 | 0.608 | 0.614 |
|                       | Top side    | 0.728 | 0.081 | 0.068 | 0.309 | 0.054 | 0.877 | 1.105 | 0.850 |
|                       | Bottom side |       |       |       |       |       | 0.000 | 0.000 | 0.000 |

| WWAN Band    | Exposure Position | 1             | 2             | 4             | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|--------------|-------------------|---------------|---------------|---------------|--------------------------------|--------------------------------|
|              |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     |                                |                                |
|              |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |                                |                                |
| GSM850_LAT   | Front             | 0.312         | 0.122         | 0.003         | 0.434                          | 0.315                          |
|              | Back              | 0.422         | 0.618         | 0.585         | 1.040                          | 1.007                          |
|              | Left side         | 0.022         |               |               | 0.022                          | 0.022                          |
|              | Right side        | 0.094         | 0.238         | 0.674         | 0.332                          | 0.768                          |
|              | Top side          |               | 0.158         | 0.108         | 0.158                          | 0.108                          |
|              | Bottom side       | 0.236         |               |               | 0.236                          | 0.236                          |
| GSM1900_LAT  | Front             | 0.389         | 0.122         | 0.003         | 0.511                          | 0.392                          |
|              | Back              | 0.457         | 0.618         | 0.585         | 1.075                          | 1.042                          |
|              | Left side         | 0.082         |               |               | 0.082                          | 0.082                          |
|              | Right side        | 0.097         | 0.238         | 0.674         | 0.335                          | 0.771                          |
|              | Top side          |               | 0.158         | 0.108         | 0.158                          | 0.108                          |
|              | Bottom side       | 0.639         |               |               | 0.639                          | 0.639                          |
| WCDMA V_LAT  | Front             | 0.332         | 0.122         | 0.003         | 0.454                          | 0.335                          |
|              | Back              | 0.509         | 0.618         | 0.585         | 1.127                          | 1.094                          |
|              | Left side         | 0.237         |               |               | 0.237                          | 0.237                          |
|              | Right side        | 0.256         | 0.238         | 0.674         | 0.494                          | 0.930                          |
|              | Top side          |               | 0.158         | 0.108         | 0.158                          | 0.108                          |
|              | Bottom side       | 0.268         |               |               | 0.268                          | 0.268                          |
| WCDMA IV_LAT | Front             | 0.577         | 0.122         | 0.003         | 0.699                          | 0.580                          |
|              | Back              | 0.653         | 0.618         | 0.585         | 1.271                          | 1.238                          |
|              | Left side         | 0.187         |               |               | 0.187                          | 0.187                          |
|              | Right side        | 0.117         | 0.238         | 0.674         | 0.355                          | 0.791                          |
|              | Top side          |               | 0.158         | 0.108         | 0.158                          | 0.108                          |
|              | Bottom side       | 0.880         |               |               | 0.880                          | 0.880                          |
| WCDMA II_LAT | Front             | 0.363         | 0.122         | 0.003         | 0.485                          | 0.366                          |
|              | Back              | 0.437         | 0.618         | 0.585         | 1.055                          | 1.022                          |
|              | Left side         | 0.074         |               |               | 0.074                          | 0.074                          |



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|                   |             |       |       |       |       |       |
|-------------------|-------------|-------|-------|-------|-------|-------|
|                   | Right side  | 0.105 | 0.238 | 0.674 | 0.343 | 0.779 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.576 |       |       | 0.576 | 0.576 |
| CDMA2000 BC0_LAT  | Front       | 0.356 | 0.122 | 0.003 | 0.478 | 0.359 |
|                   | Back        | 0.518 | 0.618 | 0.585 | 1.136 | 1.103 |
|                   | Left side   | 0.191 |       |       | 0.191 | 0.191 |
|                   | Right side  | 0.261 | 0.238 | 0.674 | 0.499 | 0.935 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.253 |       |       | 0.253 | 0.253 |
| CDMA2000 BC10_LAT | Front       | 0.340 | 0.122 | 0.003 | 0.462 | 0.343 |
|                   | Back        | 0.499 | 0.618 | 0.585 | 1.117 | 1.084 |
|                   | Left side   | 0.183 |       |       | 0.183 | 0.183 |
|                   | Right side  | 0.234 | 0.238 | 0.674 | 0.472 | 0.908 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.222 |       |       | 0.222 | 0.222 |
| CDMA2000 BC1_LAT  | Front       | 0.501 | 0.122 | 0.003 | 0.623 | 0.504 |
|                   | Back        | 0.638 | 0.618 | 0.585 | 1.256 | 1.223 |
|                   | Left side   | 0.100 |       |       | 0.100 | 0.100 |
|                   | Right side  | 0.135 | 0.238 | 0.674 | 0.373 | 0.809 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.817 |       |       | 0.817 | 0.817 |
| LTE Band 71_LAT   | Front       | 0.263 | 0.122 | 0.003 | 0.385 | 0.266 |
|                   | Back        | 0.399 | 0.618 | 0.585 | 1.017 | 0.984 |
|                   | Left side   | 0.214 |       |       | 0.214 | 0.214 |
|                   | Right side  | 0.278 | 0.238 | 0.674 | 0.516 | 0.952 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.154 |       |       | 0.154 | 0.154 |
| LTE Band 12_LAT   | Front       | 0.296 | 0.122 | 0.003 | 0.418 | 0.299 |
|                   | Back        | 0.563 | 0.618 | 0.585 | 1.181 | 1.148 |
|                   | Left side   | 0.275 |       |       | 0.275 | 0.275 |
|                   | Right side  | 0.232 | 0.238 | 0.674 | 0.470 | 0.906 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.188 |       |       | 0.188 | 0.188 |
| LTE Band 13_LAT   | Front       | 0.299 | 0.122 | 0.003 | 0.421 | 0.302 |
|                   | Back        | 0.387 | 0.618 | 0.585 | 1.005 | 0.972 |
|                   | Left side   | 0.228 |       |       | 0.228 | 0.228 |
|                   | Right side  | 0.196 | 0.238 | 0.674 | 0.434 | 0.870 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.175 |       |       | 0.175 | 0.175 |
| LTE Band 5_LAT    | Front       | 0.334 | 0.122 | 0.003 | 0.456 | 0.337 |
|                   | Back        | 0.414 | 0.618 | 0.585 | 1.032 | 0.999 |
|                   | Left side   | 0.172 |       |       | 0.172 | 0.172 |
|                   | Right side  | 0.210 | 0.238 | 0.674 | 0.448 | 0.884 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.259 |       |       | 0.259 | 0.259 |
| LTE Band 26_LAT   | Front       | 0.382 | 0.122 | 0.003 | 0.504 | 0.385 |
|                   | Back        | 0.536 | 0.618 | 0.585 | 1.154 | 1.121 |
|                   | Left side   | 0.186 |       |       | 0.186 | 0.186 |
|                   | Right side  | 0.221 | 0.238 | 0.674 | 0.459 | 0.895 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                   | Bottom side | 0.196 |       |       | 0.196 | 0.196 |
| LTE Band 66_LAT   | Front       | 0.463 | 0.122 | 0.003 | 0.585 | 0.466 |
|                   | Back        | 0.711 | 0.618 | 0.585 | 1.329 | 1.296 |
|                   | Left side   | 0.171 |       |       | 0.171 | 0.171 |
|                   | Right side  | 0.098 | 0.238 | 0.674 | 0.336 | 0.772 |
|                   | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |

|                       |             |       |       |       |       |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|
|                       | Bottom side | 0.874 |       |       | 0.874 | 0.874 |
| LTE Band 25_LAT       | Front       | 0.316 | 0.122 | 0.003 | 0.438 | 0.319 |
|                       | Back        | 0.470 | 0.618 | 0.585 | 1.088 | 1.055 |
|                       | Left side   | 0.054 |       |       | 0.054 | 0.054 |
|                       | Right side  | 0.079 | 0.238 | 0.674 | 0.317 | 0.753 |
|                       | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                       | Bottom side | 0.517 |       |       | 0.517 | 0.517 |
| LTE Band 30_LAT       | Front       | 0.372 | 0.122 | 0.003 | 0.494 | 0.375 |
|                       | Back        | 0.552 | 0.618 | 0.585 | 1.170 | 1.137 |
|                       | Left side   | 0.120 |       |       | 0.120 | 0.120 |
|                       | Right side  | 0.077 | 0.238 | 0.674 | 0.315 | 0.751 |
|                       | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                       | Bottom side | 0.349 |       |       | 0.349 | 0.349 |
| LTE Band 7_LAT        | Front       | 0.279 | 0.122 | 0.003 | 0.401 | 0.282 |
|                       | Back        | 0.552 | 0.618 | 0.585 | 1.170 | 1.137 |
|                       | Left side   | 0.103 |       |       | 0.103 | 0.103 |
|                       | Right side  | 0.073 | 0.238 | 0.674 | 0.311 | 0.747 |
|                       | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                       | Bottom side | 0.340 |       |       | 0.340 | 0.340 |
| LTE Band 41_LAT       | Front       | 0.281 | 0.122 | 0.003 | 0.403 | 0.284 |
|                       | Back        | 0.576 | 0.618 | 0.585 | 1.194 | 1.161 |
|                       | Left side   | 0.089 |       |       | 0.089 | 0.089 |
|                       | Right side  | 0.085 | 0.238 | 0.674 | 0.323 | 0.759 |
|                       | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                       | Bottom side | 0.302 |       |       | 0.302 | 0.302 |
| LTE Band 41(HPUE)_LAT | Front       | 0.395 | 0.122 | 0.003 | 0.517 | 0.398 |
|                       | Back        | 0.713 | 0.618 | 0.585 | 1.331 | 1.298 |
|                       | Left side   | 0.120 |       |       | 0.120 | 0.120 |
|                       | Right side  | 0.118 | 0.238 | 0.674 | 0.356 | 0.792 |
|                       | Top side    |       | 0.158 | 0.108 | 0.158 | 0.108 |
|                       | Bottom side | 0.397 |       |       | 0.397 | 0.397 |

| WWAN Band    | Exposure Position | 1             | 2             | 4             | 6                 | 7                 | 1+2+4 Summed<br>1g SAR (W/kg) | 1+4+6 Summed<br>1g SAR (W/kg) | 1+4+7 Summed<br>1g SAR (W/kg) |
|--------------|-------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
|              |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                               |                               |                               |
|              |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                               |                               |                               |
| GSM850_LAT   | Front             | 0.312         | 0.061         | 0.002         | 0.048             | 0.041             | 0.375                         | 0.362                         | 0.355                         |
|              | Back              | 0.422         | 0.314         | 0.343         | 0.197             | 0.190             | 1.079                         | 0.962                         | 0.955                         |
|              | Left side         | 0.022         |               |               |                   |                   | 0.022                         | 0.022                         | 0.022                         |
|              | Right side        | 0.094         | 0.120         | 0.420         | 0.127             | 0.133             | 0.634                         | 0.641                         | 0.647                         |
|              | Top side          |               | 0.081         | 0.068         | 0.309             | 0.054             | 0.149                         | 0.377                         | 0.122                         |
|              | Bottom side       | 0.236         |               |               |                   |                   | 0.236                         | 0.236                         | 0.236                         |
| GSM1900_LAT  | Front             | 0.389         | 0.061         | 0.002         | 0.048             | 0.041             | 0.452                         | 0.439                         | 0.432                         |
|              | Back              | 0.457         | 0.314         | 0.343         | 0.197             | 0.190             | 1.114                         | 0.997                         | 0.990                         |
|              | Left side         | 0.082         |               |               |                   |                   | 0.082                         | 0.082                         | 0.082                         |
|              | Right side        | 0.097         | 0.120         | 0.420         | 0.127             | 0.133             | 0.637                         | 0.644                         | 0.650                         |
|              | Top side          |               | 0.081         | 0.068         | 0.309             | 0.054             | 0.149                         | 0.377                         | 0.122                         |
|              | Bottom side       | 0.639         |               |               |                   |                   | 0.639                         | 0.639                         | 0.639                         |
| WCDMA V_LAT  | Front             | 0.332         | 0.061         | 0.002         | 0.048             | 0.041             | 0.395                         | 0.382                         | 0.375                         |
|              | Back              | 0.509         | 0.314         | 0.343         | 0.197             | 0.190             | 1.166                         | 1.049                         | 1.042                         |
|              | Left side         | 0.237         |               |               |                   |                   | 0.237                         | 0.237                         | 0.237                         |
|              | Right side        | 0.256         | 0.120         | 0.420         | 0.127             | 0.133             | 0.796                         | 0.803                         | 0.809                         |
|              | Top side          |               | 0.081         | 0.068         | 0.309             | 0.054             | 0.149                         | 0.377                         | 0.122                         |
|              | Bottom side       | 0.268         |               |               |                   |                   | 0.268                         | 0.268                         | 0.268                         |
| WCDMA IV_LAT | Front             | 0.577         | 0.061         | 0.002         | 0.048             | 0.041             | 0.640                         | 0.627                         | 0.620                         |
|              | Back              | 0.653         | 0.314         | 0.343         | 0.197             | 0.190             | 1.310                         | 1.193                         | 1.186                         |



|                   |             |       |       |       |       |       |       |       |       |
|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | Left side   | 0.187 |       |       |       |       | 0.187 | 0.187 | 0.187 |
|                   | Right side  | 0.117 | 0.120 | 0.420 | 0.127 | 0.133 | 0.657 | 0.664 | 0.670 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.880 |       |       |       |       | 0.880 | 0.880 | 0.880 |
| WCDMA II_LAT      | Front       | 0.363 | 0.061 | 0.002 | 0.048 | 0.041 | 0.426 | 0.413 | 0.406 |
|                   | Back        | 0.437 | 0.314 | 0.343 | 0.197 | 0.190 | 1.094 | 0.977 | 0.970 |
|                   | Left side   | 0.074 |       |       |       |       | 0.074 | 0.074 | 0.074 |
|                   | Right side  | 0.105 | 0.120 | 0.420 | 0.127 | 0.133 | 0.645 | 0.652 | 0.658 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.576 |       |       |       |       | 0.576 | 0.576 | 0.576 |
| CDMA2000 BC0_LAT  | Front       | 0.356 | 0.061 | 0.002 | 0.048 | 0.041 | 0.419 | 0.406 | 0.399 |
|                   | Back        | 0.518 | 0.314 | 0.343 | 0.197 | 0.190 | 1.175 | 1.058 | 1.051 |
|                   | Left side   | 0.191 |       |       |       |       | 0.191 | 0.191 | 0.191 |
|                   | Right side  | 0.261 | 0.120 | 0.420 | 0.127 | 0.133 | 0.801 | 0.808 | 0.814 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.253 |       |       |       |       | 0.253 | 0.253 | 0.253 |
| CDMA2000 BC10_LAT | Front       | 0.340 | 0.061 | 0.002 | 0.048 | 0.041 | 0.403 | 0.390 | 0.383 |
|                   | Back        | 0.499 | 0.314 | 0.343 | 0.197 | 0.190 | 1.156 | 1.039 | 1.032 |
|                   | Left side   | 0.183 |       |       |       |       | 0.183 | 0.183 | 0.183 |
|                   | Right side  | 0.234 | 0.120 | 0.420 | 0.127 | 0.133 | 0.774 | 0.781 | 0.787 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.222 |       |       |       |       | 0.222 | 0.222 | 0.222 |
| CDMA2000 BC1_LAT  | Front       | 0.501 | 0.061 | 0.002 | 0.048 | 0.041 | 0.564 | 0.551 | 0.544 |
|                   | Back        | 0.638 | 0.314 | 0.343 | 0.197 | 0.190 | 1.295 | 1.178 | 1.171 |
|                   | Left side   | 0.100 |       |       |       |       | 0.100 | 0.100 | 0.100 |
|                   | Right side  | 0.135 | 0.120 | 0.420 | 0.127 | 0.133 | 0.675 | 0.682 | 0.688 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.817 |       |       |       |       | 0.817 | 0.817 | 0.817 |
| LTE Band 71_LAT   | Front       | 0.263 | 0.061 | 0.002 | 0.048 | 0.041 | 0.326 | 0.313 | 0.306 |
|                   | Back        | 0.399 | 0.314 | 0.343 | 0.197 | 0.190 | 1.056 | 0.939 | 0.932 |
|                   | Left side   | 0.214 |       |       |       |       | 0.214 | 0.214 | 0.214 |
|                   | Right side  | 0.278 | 0.120 | 0.420 | 0.127 | 0.133 | 0.818 | 0.825 | 0.831 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.154 |       |       |       |       | 0.154 | 0.154 | 0.154 |
| LTE Band 12_LAT   | Front       | 0.296 | 0.061 | 0.002 | 0.048 | 0.041 | 0.359 | 0.346 | 0.339 |
|                   | Back        | 0.563 | 0.314 | 0.343 | 0.197 | 0.190 | 1.220 | 1.103 | 1.096 |
|                   | Left side   | 0.275 |       |       |       |       | 0.275 | 0.275 | 0.275 |
|                   | Right side  | 0.232 | 0.120 | 0.420 | 0.127 | 0.133 | 0.772 | 0.779 | 0.785 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.188 |       |       |       |       | 0.188 | 0.188 | 0.188 |
| LTE Band 13_LAT   | Front       | 0.299 | 0.061 | 0.002 | 0.048 | 0.041 | 0.362 | 0.349 | 0.342 |
|                   | Back        | 0.387 | 0.314 | 0.343 | 0.197 | 0.190 | 1.044 | 0.927 | 0.920 |
|                   | Left side   | 0.228 |       |       |       |       | 0.228 | 0.228 | 0.228 |
|                   | Right side  | 0.196 | 0.120 | 0.420 | 0.127 | 0.133 | 0.736 | 0.743 | 0.749 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.175 |       |       |       |       | 0.175 | 0.175 | 0.175 |
| LTE Band 5_LAT    | Front       | 0.334 | 0.061 | 0.002 | 0.048 | 0.041 | 0.397 | 0.384 | 0.377 |
|                   | Back        | 0.414 | 0.314 | 0.343 | 0.197 | 0.190 | 1.071 | 0.954 | 0.947 |
|                   | Left side   | 0.172 |       |       |       |       | 0.172 | 0.172 | 0.172 |
|                   | Right side  | 0.210 | 0.120 | 0.420 | 0.127 | 0.133 | 0.750 | 0.757 | 0.763 |
|                   | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                   | Bottom side | 0.259 |       |       |       |       | 0.259 | 0.259 | 0.259 |
| LTE Band 26_LAT   | Front       | 0.382 | 0.061 | 0.002 | 0.048 | 0.041 | 0.445 | 0.432 | 0.425 |
|                   | Back        | 0.536 | 0.314 | 0.343 | 0.197 | 0.190 | 1.193 | 1.076 | 1.069 |
|                   | Left side   | 0.186 |       |       |       |       | 0.186 | 0.186 | 0.186 |
|                   | Right side  | 0.221 | 0.120 | 0.420 | 0.127 | 0.133 | 0.761 | 0.768 | 0.774 |

|                       |             |       |       |       |       |       |       |       |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.196 |       |       |       |       | 0.196 | 0.196 | 0.196 |
| LTE Band 66_LAT       | Front       | 0.463 | 0.061 | 0.002 | 0.048 | 0.041 | 0.526 | 0.513 | 0.506 |
|                       | Back        | 0.711 | 0.314 | 0.343 | 0.197 | 0.190 | 1.368 | 1.251 | 1.244 |
|                       | Left side   | 0.171 |       |       |       |       | 0.171 | 0.171 | 0.171 |
|                       | Right side  | 0.098 | 0.120 | 0.420 | 0.127 | 0.133 | 0.638 | 0.645 | 0.651 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.874 |       |       |       |       | 0.874 | 0.874 | 0.874 |
| LTE Band 25_LAT       | Front       | 0.316 | 0.061 | 0.002 | 0.048 | 0.041 | 0.379 | 0.366 | 0.359 |
|                       | Back        | 0.470 | 0.314 | 0.343 | 0.197 | 0.190 | 1.127 | 1.010 | 1.003 |
|                       | Left side   | 0.054 |       |       |       |       | 0.054 | 0.054 | 0.054 |
|                       | Right side  | 0.079 | 0.120 | 0.420 | 0.127 | 0.133 | 0.619 | 0.626 | 0.632 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.517 |       |       |       |       | 0.517 | 0.517 | 0.517 |
| LTE Band 30_LAT       | Front       | 0.372 | 0.061 | 0.002 | 0.048 | 0.041 | 0.435 | 0.422 | 0.415 |
|                       | Back        | 0.552 | 0.314 | 0.343 | 0.197 | 0.190 | 1.209 | 1.092 | 1.085 |
|                       | Left side   | 0.120 |       |       |       |       | 0.120 | 0.120 | 0.120 |
|                       | Right side  | 0.077 | 0.120 | 0.420 | 0.127 | 0.133 | 0.617 | 0.624 | 0.630 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.349 |       |       |       |       | 0.349 | 0.349 | 0.349 |
| LTE Band 7_LAT        | Front       | 0.279 | 0.061 | 0.002 | 0.048 | 0.041 | 0.342 | 0.329 | 0.322 |
|                       | Back        | 0.552 | 0.314 | 0.343 | 0.197 | 0.190 | 1.209 | 1.092 | 1.085 |
|                       | Left side   | 0.103 |       |       |       |       | 0.103 | 0.103 | 0.103 |
|                       | Right side  | 0.073 | 0.120 | 0.420 | 0.127 | 0.133 | 0.613 | 0.620 | 0.626 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.340 |       |       |       |       | 0.340 | 0.340 | 0.340 |
| LTE Band 41_LAT       | Front       | 0.281 | 0.061 | 0.002 | 0.048 | 0.041 | 0.344 | 0.331 | 0.324 |
|                       | Back        | 0.576 | 0.314 | 0.343 | 0.197 | 0.190 | 1.233 | 1.116 | 1.109 |
|                       | Left side   | 0.089 |       |       |       |       | 0.089 | 0.089 | 0.089 |
|                       | Right side  | 0.085 | 0.120 | 0.420 | 0.127 | 0.133 | 0.625 | 0.632 | 0.638 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.302 |       |       |       |       | 0.302 | 0.302 | 0.302 |
| LTE Band 41(HPUE)_LAT | Front       | 0.395 | 0.061 | 0.002 | 0.048 | 0.041 | 0.458 | 0.445 | 0.438 |
|                       | Back        | 0.713 | 0.314 | 0.343 | 0.197 | 0.190 | 1.370 | 1.253 | 1.246 |
|                       | Left side   | 0.120 |       |       |       |       | 0.120 | 0.120 | 0.120 |
|                       | Right side  | 0.118 | 0.120 | 0.420 | 0.127 | 0.133 | 0.658 | 0.665 | 0.671 |
|                       | Top side    |       | 0.081 | 0.068 | 0.309 | 0.054 | 0.149 | 0.377 | 0.122 |
|                       | Bottom side | 0.397 |       |       |       |       | 0.397 | 0.397 | 0.397 |

### 18.3 Body-Worn Accessory Exposure Conditions

| WWAN Band             | Exposure Position | 1                | 2                | 4                | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|-----------------------|-------------------|------------------|------------------|------------------|--------------------------------|--------------------------------|
|                       |                   | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        |                                |                                |
|                       |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                |                                |
| GSM850_UAT            | Front             | 0.311            | 0.086            | 0.099            | 0.397                          | 0.410                          |
|                       | Back              | 0.420            | 0.547            | 0.697            | 0.967                          | 1.117                          |
| GSM1900_UAT           | Front             | 0.290            | 0.086            | 0.099            | 0.376                          | 0.389                          |
|                       | Back              | 0.320            | 0.547            | 0.697            | 0.867                          | 1.017                          |
| WCDMA V_UAT           | Front             | 0.170            | 0.086            | 0.099            | 0.256                          | 0.269                          |
|                       | Back              | 0.400            | 0.547            | 0.697            | 0.947                          | 1.097                          |
| WCDMA IV_UAT          | Front             | 0.384            | 0.086            | 0.099            | 0.470                          | 0.483                          |
|                       | Back              | 0.454            | 0.547            | 0.697            | 1.001                          | 1.151                          |
| WCDMA II_UAT          | Front             | 0.369            | 0.086            | 0.099            | 0.455                          | 0.468                          |
|                       | Back              | 0.417            | 0.547            | 0.697            | 0.964                          | 1.114                          |
| CDMA2000 BC0_UAT      | Front             | 0.196            | 0.086            | 0.099            | 0.282                          | 0.295                          |
|                       | Back              | 0.258            | 0.547            | 0.697            | 0.805                          | 0.955                          |
| CDMA2000 BC10_UAT     | Front             | 0.155            | 0.086            | 0.099            | 0.241                          | 0.254                          |
|                       | Back              | 0.198            | 0.547            | 0.697            | 0.745                          | 0.895                          |
| CDMA2000 BC1_UAT      | Front             | 0.096            | 0.086            | 0.099            | 0.182                          | 0.195                          |
|                       | Back              | 0.109            | 0.547            | 0.697            | 0.656                          | 0.806                          |
| LTE Band 71_UAT       | Front             | 0.240            | 0.086            | 0.099            | 0.326                          | 0.339                          |
|                       | Back              | 0.286            | 0.547            | 0.697            | 0.833                          | 0.983                          |
| LTE Band 12_UAT       | Front             | 0.345            | 0.086            | 0.099            | 0.431                          | 0.444                          |
|                       | Back              | 0.384            | 0.547            | 0.697            | 0.931                          | 1.081                          |
| LTE Band 13_UAT       | Front             | 0.353            | 0.086            | 0.099            | 0.439                          | 0.452                          |
|                       | Back              | 0.408            | 0.547            | 0.697            | 0.955                          | 1.105                          |
| LTE Band 5_UAT        | Front             | 0.309            | 0.086            | 0.099            | 0.395                          | 0.408                          |
|                       | Back              | 0.379            | 0.547            | 0.697            | 0.926                          | 1.076                          |
| LTE Band 26_UAT       | Front             | 0.340            | 0.086            | 0.099            | 0.426                          | 0.439                          |
|                       | Back              | 0.424            | 0.547            | 0.697            | 0.971                          | 1.121                          |
| LTE Band 66_UAT       | Front             | 0.219            | 0.086            | 0.099            | 0.305                          | 0.318                          |
|                       | Back              | 0.313            | 0.547            | 0.697            | 0.860                          | 1.010                          |
| LTE Band 25_UAT       | Front             | 0.353            | 0.086            | 0.099            | 0.439                          | 0.452                          |
|                       | Back              | 0.462            | 0.547            | 0.697            | 1.009                          | 1.159                          |
| LTE Band 30_UAT       | Front             | 0.408            | 0.086            | 0.099            | 0.494                          | 0.507                          |
|                       | Back              | 0.457            | 0.547            | 0.697            | 1.004                          | 1.154                          |
| LTE Band 7_UAT        | Front             | 0.404            | 0.086            | 0.099            | 0.490                          | 0.503                          |
|                       | Back              | 0.480            | 0.547            | 0.697            | 1.027                          | 1.177                          |
| LTE Band 41_UAT       | Front             | 0.220            | 0.086            | 0.099            | 0.306                          | 0.319                          |
|                       | Back              | 0.420            | 0.547            | 0.697            | 0.967                          | 1.117                          |
| LTE Band 41(HPUE)_UAT | Front             | 0.286            | 0.086            | 0.099            | 0.372                          | 0.385                          |
|                       | Back              | 0.385            | 0.547            | 0.697            | 0.932                          | 1.082                          |
| LTE Band 48_UAT       | Front             | 0.262            | 0.086            | 0.099            | 0.348                          | 0.361                          |
|                       | Back              | 0.452            | 0.547            | 0.697            | 0.999                          | 1.149                          |



| WWAN Band             | Exposure Position | 1             | 2             | 4             | 6                 | 7                 | 1+2+4 Summed<br>1g SAR (W/kg) | 1+4+6 Summed<br>1g SAR (W/kg) | 1+4+7 Summed<br>1g SAR (W/kg) |
|-----------------------|-------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
|                       |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                               |                               |                               |
|                       |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                               |                               |                               |
| GSM850_UAT            | Front             | 0.311         | 0.054         | 0.063         | 0.008             | 0.011             | 0.428                         | 0.382                         | 0.385                         |
|                       | Back              | 0.420         | 0.352         | 0.455         | 0.067             | 0.076             | 1.227                         | 0.942                         | 0.951                         |
| GSM1900_UAT           | Front             | 0.290         | 0.054         | 0.063         | 0.008             | 0.011             | 0.407                         | 0.361                         | 0.364                         |
|                       | Back              | 0.320         | 0.352         | 0.455         | 0.067             | 0.076             | 1.127                         | 0.842                         | 0.851                         |
| WCDMA V_UAT           | Front             | 0.170         | 0.054         | 0.063         | 0.008             | 0.011             | 0.287                         | 0.241                         | 0.244                         |
|                       | Back              | 0.400         | 0.352         | 0.455         | 0.067             | 0.076             | 1.207                         | 0.922                         | 0.931                         |
| WCDMA IV_UAT          | Front             | 0.384         | 0.054         | 0.063         | 0.008             | 0.011             | 0.501                         | 0.455                         | 0.458                         |
|                       | Back              | 0.454         | 0.352         | 0.455         | 0.067             | 0.076             | 1.261                         | 0.976                         | 0.985                         |
| WCDMA II_UAT          | Front             | 0.369         | 0.054         | 0.063         | 0.008             | 0.011             | 0.486                         | 0.440                         | 0.443                         |
|                       | Back              | 0.417         | 0.352         | 0.455         | 0.067             | 0.076             | 1.224                         | 0.939                         | 0.948                         |
| CDMA2000 BC0_UAT      | Front             | 0.196         | 0.054         | 0.063         | 0.008             | 0.011             | 0.313                         | 0.267                         | 0.270                         |
|                       | Back              | 0.258         | 0.352         | 0.455         | 0.067             | 0.076             | 1.065                         | 0.780                         | 0.789                         |
| CDMA2000 BC10_UAT     | Front             | 0.155         | 0.054         | 0.063         | 0.008             | 0.011             | 0.272                         | 0.226                         | 0.229                         |
|                       | Back              | 0.198         | 0.352         | 0.455         | 0.067             | 0.076             | 1.005                         | 0.720                         | 0.729                         |
| CDMA2000 BC1_UAT      | Front             | 0.096         | 0.054         | 0.063         | 0.008             | 0.011             | 0.213                         | 0.167                         | 0.170                         |
|                       | Back              | 0.109         | 0.352         | 0.455         | 0.067             | 0.076             | 0.916                         | 0.631                         | 0.640                         |
| LTE Band 71_UAT       | Front             | 0.240         | 0.054         | 0.063         | 0.008             | 0.011             | 0.357                         | 0.311                         | 0.314                         |
|                       | Back              | 0.286         | 0.352         | 0.455         | 0.067             | 0.076             | 1.093                         | 0.808                         | 0.817                         |
| LTE Band 12_UAT       | Front             | 0.345         | 0.054         | 0.063         | 0.008             | 0.011             | 0.462                         | 0.416                         | 0.419                         |
|                       | Back              | 0.384         | 0.352         | 0.455         | 0.067             | 0.076             | 1.191                         | 0.906                         | 0.915                         |
| LTE Band 13_UAT       | Front             | 0.353         | 0.054         | 0.063         | 0.008             | 0.011             | 0.470                         | 0.424                         | 0.427                         |
|                       | Back              | 0.408         | 0.352         | 0.455         | 0.067             | 0.076             | 1.215                         | 0.930                         | 0.939                         |
| LTE Band 5_UAT        | Front             | 0.309         | 0.054         | 0.063         | 0.008             | 0.011             | 0.426                         | 0.380                         | 0.383                         |
|                       | Back              | 0.379         | 0.352         | 0.455         | 0.067             | 0.076             | 1.186                         | 0.901                         | 0.910                         |
| LTE Band 26_UAT       | Front             | 0.340         | 0.054         | 0.063         | 0.008             | 0.011             | 0.457                         | 0.411                         | 0.414                         |
|                       | Back              | 0.424         | 0.352         | 0.455         | 0.067             | 0.076             | 1.231                         | 0.946                         | 0.955                         |
| LTE Band 66_UAT       | Front             | 0.219         | 0.054         | 0.063         | 0.008             | 0.011             | 0.336                         | 0.290                         | 0.293                         |
|                       | Back              | 0.313         | 0.352         | 0.455         | 0.067             | 0.076             | 1.120                         | 0.835                         | 0.844                         |
| LTE Band 25_UAT       | Front             | 0.353         | 0.054         | 0.063         | 0.008             | 0.011             | 0.470                         | 0.424                         | 0.427                         |
|                       | Back              | 0.462         | 0.352         | 0.455         | 0.067             | 0.076             | 1.269                         | 0.984                         | 0.993                         |
| LTE Band 30_UAT       | Front             | 0.408         | 0.054         | 0.063         | 0.008             | 0.011             | 0.525                         | 0.479                         | 0.482                         |
|                       | Back              | 0.457         | 0.352         | 0.455         | 0.067             | 0.076             | 1.264                         | 0.979                         | 0.988                         |
| LTE Band 7_UAT        | Front             | 0.404         | 0.054         | 0.063         | 0.008             | 0.011             | 0.521                         | 0.475                         | 0.478                         |
|                       | Back              | 0.480         | 0.352         | 0.455         | 0.067             | 0.076             | 1.287                         | 1.002                         | 1.011                         |
| LTE Band 41_UAT       | Front             | 0.220         | 0.054         | 0.063         | 0.008             | 0.011             | 0.337                         | 0.291                         | 0.294                         |
|                       | Back              | 0.420         | 0.352         | 0.455         | 0.067             | 0.076             | 1.227                         | 0.942                         | 0.951                         |
| LTE Band 41(HPUE)_UAT | Front             | 0.286         | 0.054         | 0.063         | 0.008             | 0.011             | 0.403                         | 0.357                         | 0.360                         |
|                       | Back              | 0.385         | 0.352         | 0.455         | 0.067             | 0.076             | 1.192                         | 0.907                         | 0.916                         |
| LTE Band 48_UAT       | Front             | 0.262         | 0.054         | 0.063         | 0.008             | 0.011             | 0.379                         | 0.333                         | 0.336                         |
|                       | Back              | 0.452         | 0.352         | 0.455         | 0.067             | 0.076             | 1.259                         | 0.974                         | 0.983                         |

| WWAN Band         | Exposure Position | 1                | 2                | 4                | 1+2<br>Summed<br>1g SAR (W/kg) | 1+4<br>Summed<br>1g SAR (W/kg) |
|-------------------|-------------------|------------------|------------------|------------------|--------------------------------|--------------------------------|
|                   |                   | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        |                                |                                |
|                   |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                |                                |
| GSM850_LAT        | Front             | 0.212            | 0.086            | 0.099            | 0.298                          | 0.311                          |
|                   | Back              | 0.368            | 0.547            | 0.697            | 0.915                          | 1.065                          |
| GSM1900_LAT       | Front             | 0.276            | 0.086            | 0.099            | 0.362                          | 0.375                          |
|                   | Back              | 0.351            | 0.547            | 0.697            | 0.898                          | 1.048                          |
| WCDMA V_LAT       | Front             | 0.101            | 0.086            | 0.099            | 0.187                          | 0.200                          |
|                   | Back              | 0.354            | 0.547            | 0.697            | 0.901                          | 1.051                          |
| WCDMA IV_LAT      | Front             | 0.574            | 0.086            | 0.099            | 0.660                          | 0.673                          |
|                   | Back              | 0.625            | 0.547            | 0.697            | 1.172                          | 1.322                          |
| WCDMA II_LAT      | Front             | 0.619            | 0.086            | 0.099            | 0.705                          | 0.718                          |
|                   | Back              | 0.642            | 0.547            | 0.697            | 1.189                          | 1.339                          |
| CDMA2000 BC0_LAT  | Front             | 0.216            | 0.086            | 0.099            | 0.302                          | 0.315                          |
|                   | Back              | 0.327            | 0.547            | 0.697            | 0.874                          | 1.024                          |
| CDMA2000 BC10_LAT | Front             | 0.242            | 0.086            | 0.099            | 0.328                          | 0.341                          |
|                   | Back              | 0.325            | 0.547            | 0.697            | 0.872                          | 1.022                          |
| CDMA2000 BC1_LAT  | Front             | 0.685            | 0.086            | 0.099            | 0.771                          | 0.784                          |
|                   | Back              | 0.784            | 0.547            | 0.697            | 1.331                          | 1.481                          |
| LTE Band 71_LAT   | Front             | 0.205            | 0.086            | 0.099            | 0.291                          | 0.304                          |
|                   | Back              | 0.269            | 0.547            | 0.697            | 0.816                          | 0.966                          |
| LTE Band 12_LAT   | Front             | 0.286            | 0.086            | 0.099            | 0.372                          | 0.385                          |
|                   | Back              | 0.394            | 0.547            | 0.697            | 0.941                          | 1.091                          |
| LTE Band 13_LAT   | Front             | 0.285            | 0.086            | 0.099            | 0.371                          | 0.384                          |
|                   | Back              | 0.387            | 0.547            | 0.697            | 0.934                          | 1.084                          |
| LTE Band 5_LAT    | Front             | 0.235            | 0.086            | 0.099            | 0.321                          | 0.334                          |
|                   | Back              | 0.331            | 0.547            | 0.697            | 0.878                          | 1.028                          |
| LTE Band 26_LAT   | Front             | 0.249            | 0.086            | 0.099            | 0.335                          | 0.348                          |
|                   | Back              | 0.403            | 0.547            | 0.697            | 0.950                          | 1.100                          |
| LTE Band 66_LAT   | Front             | 0.583            | 0.086            | 0.099            | 0.669                          | 0.682                          |
|                   | Back              | 0.651            | 0.547            | 0.697            | 1.198                          | 1.348                          |
| LTE Band 25_LAT   | Front             | 0.656            | 0.086            | 0.099            | 0.742                          | 0.755                          |
|                   | Back              | 0.669            | 0.547            | 0.697            | 1.216                          | 1.366                          |
| LTE Band 30_LAT   | Front             | 0.674            | 0.086            | 0.099            | 0.760                          | 0.773                          |
|                   | Back              | 0.747            | 0.547            | 0.697            | 1.294                          | 1.444                          |
| LTE Band 7_LAT    | Front             | 0.614            | 0.086            | 0.099            | 0.700                          | 0.713                          |
|                   | Back              | 0.784            | 0.547            | 0.697            | 1.331                          | 1.481                          |
| LTE Band 41_LAT   | Front             | 0.134            | 0.086            | 0.099            | 0.220                          | 0.233                          |
|                   | Back              | 0.505            | 0.547            | 0.697            | 1.052                          | 1.202                          |

| WWAN Band         | Exposure Position | 1             | 2             | 4             | 6                 | 7                 | 1+2+4 Summed<br>1g SAR (W/kg) | 1+4+6 Summed<br>1g SAR (W/kg) | 1+4+7 Summed<br>1g SAR (W/kg) |
|-------------------|-------------------|---------------|---------------|---------------|-------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
|                   |                   | WWAN          | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                               |                               |                               |
|                   |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                               |                               |                               |
| GSM850_LAT        | Front             | 0.212         | 0.054         | 0.063         | 0.008             | 0.011             | 0.329                         | 0.283                         | 0.286                         |
|                   | Back              | 0.368         | 0.352         | 0.455         | 0.067             | 0.076             | 1.175                         | 0.890                         | 0.899                         |
| GSM1900_LAT       | Front             | 0.276         | 0.054         | 0.063         | 0.008             | 0.011             | 0.393                         | 0.347                         | 0.350                         |
|                   | Back              | 0.351         | 0.352         | 0.455         | 0.067             | 0.076             | 1.158                         | 0.873                         | 0.882                         |
| WCDMA V_LAT       | Front             | 0.101         | 0.054         | 0.063         | 0.008             | 0.011             | 0.218                         | 0.172                         | 0.175                         |
|                   | Back              | 0.354         | 0.352         | 0.455         | 0.067             | 0.076             | 1.161                         | 0.876                         | 0.885                         |
| WCDMA IV_LAT      | Front             | 0.574         | 0.054         | 0.063         | 0.008             | 0.011             | 0.691                         | 0.645                         | 0.648                         |
|                   | Back              | 0.625         | 0.352         | 0.455         | 0.067             | 0.076             | 1.432                         | 1.147                         | 1.156                         |
| WCDMA II_LAT      | Front             | 0.619         | 0.054         | 0.063         | 0.008             | 0.011             | 0.736                         | 0.690                         | 0.693                         |
|                   | Back              | 0.642         | 0.352         | 0.455         | 0.067             | 0.076             | 1.449                         | 1.164                         | 1.173                         |
| CDMA2000 BC0_LAT  | Front             | 0.216         | 0.054         | 0.063         | 0.008             | 0.011             | 0.333                         | 0.287                         | 0.290                         |
|                   | Back              | 0.327         | 0.352         | 0.455         | 0.067             | 0.076             | 1.134                         | 0.849                         | 0.858                         |
| CDMA2000 BC10_LAT | Front             | 0.242         | 0.054         | 0.063         | 0.008             | 0.011             | 0.359                         | 0.313                         | 0.316                         |
|                   | Back              | 0.325         | 0.352         | 0.455         | 0.067             | 0.076             | 1.132                         | 0.847                         | 0.856                         |
| CDMA2000 BC1_LAT  | Front             | 0.685         | 0.054         | 0.063         | 0.008             | 0.011             | 0.802                         | 0.756                         | 0.759                         |
|                   | Back              | 0.784         | 0.352         | 0.455         | 0.067             | 0.076             | 1.591                         | 1.306                         | 1.315                         |
| LTE Band 71_LAT   | Front             | 0.205         | 0.054         | 0.063         | 0.008             | 0.011             | 0.322                         | 0.276                         | 0.279                         |
|                   | Back              | 0.269         | 0.352         | 0.455         | 0.067             | 0.076             | 1.076                         | 0.791                         | 0.800                         |
| LTE Band 12_LAT   | Front             | 0.286         | 0.054         | 0.063         | 0.008             | 0.011             | 0.403                         | 0.357                         | 0.360                         |
|                   | Back              | 0.394         | 0.352         | 0.455         | 0.067             | 0.076             | 1.201                         | 0.916                         | 0.925                         |
| LTE Band 13_LAT   | Front             | 0.285         | 0.054         | 0.063         | 0.008             | 0.011             | 0.402                         | 0.356                         | 0.359                         |
|                   | Back              | 0.387         | 0.352         | 0.455         | 0.067             | 0.076             | 1.194                         | 0.909                         | 0.918                         |
| LTE Band 5_LAT    | Front             | 0.235         | 0.054         | 0.063         | 0.008             | 0.011             | 0.352                         | 0.306                         | 0.309                         |
|                   | Back              | 0.331         | 0.352         | 0.455         | 0.067             | 0.076             | 1.138                         | 0.853                         | 0.862                         |
| LTE Band 26_LAT   | Front             | 0.249         | 0.054         | 0.063         | 0.008             | 0.011             | 0.366                         | 0.320                         | 0.323                         |
|                   | Back              | 0.403         | 0.352         | 0.455         | 0.067             | 0.076             | 1.210                         | 0.925                         | 0.934                         |
| LTE Band 66_LAT   | Front             | 0.583         | 0.054         | 0.063         | 0.008             | 0.011             | 0.700                         | 0.654                         | 0.657                         |
|                   | Back              | 0.651         | 0.352         | 0.455         | 0.067             | 0.076             | 1.458                         | 1.173                         | 1.182                         |
| LTE Band 25_LAT   | Front             | 0.656         | 0.054         | 0.063         | 0.008             | 0.011             | 0.773                         | 0.727                         | 0.730                         |
|                   | Back              | 0.669         | 0.352         | 0.455         | 0.067             | 0.076             | 1.476                         | 1.191                         | 1.200                         |
| LTE Band 30_LAT   | Front             | 0.674         | 0.054         | 0.063         | 0.008             | 0.011             | 0.791                         | 0.745                         | 0.748                         |
|                   | Back              | 0.747         | 0.352         | 0.455         | 0.067             | 0.076             | 1.554                         | 1.269                         | 1.278                         |
| LTE Band 7_LAT    | Front             | 0.614         | 0.054         | 0.063         | 0.008             | 0.011             | 0.731                         | 0.685                         | 0.688                         |
|                   | Back              | 0.784         | 0.352         | 0.455         | 0.067             | 0.076             | 1.591                         | 1.306                         | 1.315                         |
| LTE Band 41_LAT   | Front             | 0.134         | 0.054         | 0.063         | 0.008             | 0.011             | 0.251                         | 0.205                         | 0.208                         |
|                   | Back              | 0.505         | 0.352         | 0.455         | 0.067             | 0.076             | 1.312                         | 1.027                         | 1.036                         |

**18.4 Product Specific Exposure Conditions**

| WWAN Band             | Exposure Position | 1                         | 2                                | 4                              | 1+2<br>Summed<br>10g SAR (W/kg) | 1+4<br>Summed<br>10g SAR (W/kg) |
|-----------------------|-------------------|---------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|
|                       |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>10g SAR<br>(W/kg) |                                 |                                 |
| CDMA2000 BC1_UAT      | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              |                           | 1.328                            | 1.663                          | 1.328                           | 1.663                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 26_UAT       | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              |                           | 1.328                            | 1.663                          | 1.328                           | 1.663                           |
|                       | Left side         | 1.432                     |                                  |                                | 1.432                           | 1.432                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 25_UAT       | Front             | 2.078                     | 0.594                            | 1.067                          | 2.672                           | 3.145                           |
|                       | Back              | 1.046                     | 1.328                            | 1.663                          | 2.374                           | 2.709                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 2.59                      | 0.157                            | 0.433                          | 2.747                           | 3.023                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 30_UAT       | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              | 1.047                     | 1.328                            | 1.663                          | 2.375                           | 2.710                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 1.841                     | 0.157                            | 0.433                          | 1.998                           | 2.274                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 7_UAT        | Front             | 1.982                     | 0.594                            | 1.067                          | 2.576                           | 3.049                           |
|                       | Back              | 0.817                     | 1.328                            | 1.663                          | 2.145                           | 2.480                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 1.721                     | 0.157                            | 0.433                          | 1.878                           | 2.154                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 41_UAT       | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              |                           | 1.328                            | 1.663                          | 1.328                           | 1.663                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 1.801                     | 0.157                            | 0.433                          | 1.958                           | 2.234                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 41(HPUE)_UAT | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              |                           | 1.328                            | 1.663                          | 1.328                           | 1.663                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 1.994                     | 0.157                            | 0.433                          | 2.151                           | 2.427                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |
| LTE Band 48_UAT       | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                       | Back              | 0.716                     | 1.328                            | 1.663                          | 2.044                           | 2.379                           |
|                       | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                       | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                       | Top side          | 1.986                     | 0.157                            | 0.433                          | 2.143                           | 2.419                           |
|                       | Bottom side       |                           |                                  |                                | 0.000                           | 0.000                           |

| WWAN Band             | Exposure Position | 1                         | 2                                | 4                              | 1+2+4<br>Summed<br>10g SAR (W/kg) |
|-----------------------|-------------------|---------------------------|----------------------------------|--------------------------------|-----------------------------------|
|                       |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>10g SAR<br>(W/kg) |                                   |
| CDMA2000 BC1_UAT      | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              |                           | 0.669                            | 0.946                          | 1.615                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 26_UAT       | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              |                           | 0.669                            | 0.946                          | 1.615                             |
|                       | Left side         | 1.432                     |                                  |                                | 1.432                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 25_UAT       | Front             | 2.078                     | 0.300                            | 0.158                          | 2.536                             |
|                       | Back              | 1.046                     | 0.669                            | 0.946                          | 2.661                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 2.590                     | 0.079                            | 0.239                          | 2.908                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 30_UAT       | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              | 1.047                     | 0.669                            | 0.946                          | 2.662                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 1.841                     | 0.079                            | 0.239                          | 2.159                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 7_UAT        | Front             | 1.982                     | 0.300                            | 0.158                          | 2.440                             |
|                       | Back              | 0.817                     | 0.669                            | 0.946                          | 2.432                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 1.721                     | 0.079                            | 0.239                          | 2.039                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 41_UAT       | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              |                           | 0.669                            | 0.946                          | 1.615                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 1.801                     | 0.079                            | 0.239                          | 2.119                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 41(HPUE)_UAT | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              |                           | 0.669                            | 0.946                          | 1.615                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 1.994                     | 0.079                            | 0.239                          | 2.312                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |
| LTE Band 48_UAT       | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                       | Back              | 0.716                     | 0.669                            | 0.946                          | 2.331                             |
|                       | Left side         |                           |                                  |                                | 0.000                             |
|                       | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                       | Top side          | 1.986                     | 0.079                            | 0.239                          | 2.304                             |
|                       | Bottom side       |                           |                                  |                                | 0.000                             |

| WWAN Band        | Exposure Position | 1                         | 2                                | 4                              | 1+2<br>Summed<br>10g SAR (W/kg) | 1+4<br>Summed<br>10g SAR (W/kg) |
|------------------|-------------------|---------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|
|                  |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>10g SAR<br>(W/kg) |                                 |                                 |
| WCDMA IV_LAT     | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                  | Back              | 1.895                     | 1.328                            | 1.663                          | 3.223                           | 3.558                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 1.305                     |                                  |                                | 1.305                           | 1.305                           |
| WCDMA II_LAT     | Front             | 1.303                     | 0.594                            | 1.067                          | 1.897                           | 2.370                           |
|                  | Back              | 1.649                     | 1.328                            | 1.663                          | 2.977                           | 3.312                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 1.269                     |                                  |                                | 1.269                           | 1.269                           |
| CDMA2000 BC1_LAT | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                  | Back              | 2.112                     | 1.328                            | 1.663                          | 3.440                           | 3.775                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 1.27                      |                                  |                                | 1.270                           | 1.270                           |
| LTE Band 66_LAT  | Front             |                           | 0.594                            | 1.067                          | 0.594                           | 1.067                           |
|                  | Back              | 2.116                     | 1.328                            | 1.663                          | 3.444                           | 3.779                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 0.948                     |                                  |                                | 0.948                           | 0.948                           |
| LTE Band 25_LAT  | Front             | 1.396                     | 0.594                            | 1.067                          | 1.990                           | 2.463                           |
|                  | Back              | 2.021                     | 1.328                            | 1.663                          | 3.349                           | 3.684                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 1.305                     |                                  |                                | 1.305                           | 1.305                           |
| LTE Band 7_LAT   | Front             | 1.554                     | 0.594                            | 1.067                          | 2.148                           | 2.621                           |
|                  | Back              | 2.287                     | 1.328                            | 1.663                          | 3.615                           | 3.950                           |
|                  | Left side         |                           |                                  |                                | 0.000                           | 0.000                           |
|                  | Right side        |                           | 0.897                            | 0.891                          | 0.897                           | 0.891                           |
|                  | Top side          |                           | 0.157                            | 0.433                          | 0.157                           | 0.433                           |
|                  | Bottom side       | 0.689                     |                                  |                                | 0.689                           | 0.689                           |

| WWAN Band        | Exposure Position | 1                         | 2                                | 4                              | 1+2+4<br>Summed<br>10g SAR (W/kg) |
|------------------|-------------------|---------------------------|----------------------------------|--------------------------------|-----------------------------------|
|                  |                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>10g SAR<br>(W/kg) |                                   |
| WCDMA IV_LAT     | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                  | Back              | 1.895                     | 0.669                            | 0.946                          | 3.510                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 1.305                     |                                  |                                | 1.305                             |
| WCDMA II_LAT     | Front             | 1.303                     | 0.300                            | 0.158                          | 1.761                             |
|                  | Back              | 1.649                     | 0.669                            | 0.946                          | 3.264                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 1.269                     |                                  |                                | 1.269                             |
| CDMA2000 BC1_LAT | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                  | Back              | 2.112                     | 0.669                            | 0.946                          | 3.727                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 1.270                     |                                  |                                | 1.270                             |
| LTE Band 66_LAT  | Front             |                           | 0.300                            | 0.158                          | 0.458                             |
|                  | Back              | 2.116                     | 0.669                            | 0.946                          | 3.731                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 0.948                     |                                  |                                | 0.948                             |
| LTE Band 25_LAT  | Front             | 1.396                     | 0.300                            | 0.158                          | 1.854                             |
|                  | Back              | 2.021                     | 0.669                            | 0.946                          | 3.636                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 1.305                     |                                  |                                | 1.305                             |
| LTE Band 7_LAT   | Front             | 1.554                     | 0.300                            | 0.158                          | 2.012                             |
|                  | Back              | 2.287                     | 0.669                            | 0.946                          | 3.902                             |
|                  | Left side         |                           |                                  |                                | 0.000                             |
|                  | Right side        |                           | 0.452                            | 0.553                          | 1.005                             |
|                  | Top side          |                           | 0.079                            | 0.239                          | 0.318                             |
|                  | Bottom side       | 0.689                     |                                  |                                | 0.689                             |

## 18.5 Inter-Band uplink CA consideration

### <Inter-band uplink CA combination>

| 2CC Uplink Carrier Aggregation |             |          |             |                                 |
|--------------------------------|-------------|----------|-------------|---------------------------------|
| Number                         | Combination | 4X4 MIMO | Restriction | Covered by Measurement Superset |
| 4                              | 2A-12A      | 2A       |             |                                 |
| 5                              | 2A-13A      | 2A       |             |                                 |
| 6                              | 4A-12A      | 4A       |             |                                 |
| 7                              | 4A-13A      | 4A       |             |                                 |
| 8                              | 12A-66A     | 66A      |             |                                 |
| 9                              | 13A-66A     | 66A      |             |                                 |

#### General Note:

- According to October 2018 TCB workshop, uplink CA SAR test guidance as follows:
  - Provide the single uplink SAR values you have obtained for the relevant SAR configuration and frequency bands that employ inter-band uplink carrier aggregation.
  - If the single uplink 1g SAR values for each band are both less than 0.8W/kg and the algebraic summation of the 1g SAR values are less than 1.45W/kg no additional measurements need to be performed.
  - If one on the single uplink 1g SAR values is greater than 0.8W/kg, instead of algebraically summing the 1g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB publication 865664 D01 SAR measurement 100MHz to 6GHz V01r04
  - If the algebraic sum of the 1g SAR values is > 1.45W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.
- Test positions and test channels used for the testing below are based on the standalone SAR result. When the UL CA active reduced by 3dB for each frequency bands, therefore power and SAR was estimated based on standalone results to performed sim-Tx analysis with WiFi and Bluetooth.
- The single uplink 1g SAR values for each band are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg, additional measurements are not required

### <Inter-band uplink CA Sim-Tx analysis>

#### <UAT antenna>

| Head            |                   | Standalone          |                     |                    |                       | UL CA active        |                     |                    |                       | WLAN                              |                                 |                                 |                                 | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|--------------------|-----------------------|---------------------|---------------------|--------------------|-----------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1                | CC2                   | CC1                 | CC2                 | 1                  | 8                     | 2                                 | 4                               | 6                               | 7                               | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN 1g SAR (W/kg) | LTE B12 1g SAR (W/kg) | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN 1g SAR (W/kg) | LTE B12 1g SAR (W/kg) | 2.4GHz WLAN Ant 1+2 1g SAR (W/kg) | 5GHz WLAN Ant 1+2 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Right Cheek       | 13.50               | 20.30               | 0.687              | 0.519                 | 10.50               | 17.30               | 0.344              | 0.260                 | 0.087                             | 0.140                           | 0.033                           | 0.063                           | 0.690                      | 0.743                      | 0.830                        | 0.776                        | 0.806                        |
|                 | Right Tilted      | 13.50               | 20.30               | 0.896              | 0.106                 | 10.50               | 17.30               | 0.448              | 0.053                 | 0.083                             | 0.186                           | 0.021                           | 0.059                           | 0.584                      | 0.687                      | 0.770                        | 0.708                        | 0.746                        |
|                 | Left Cheek        | 13.50               | 20.30               | 0.533              | 0.605                 | 10.50               | 17.30               | 0.267              | 0.303                 | 0.309                             | 0.259                           | 0.276                           | 0.222                           | 0.878                      | 0.828                      | 1.137                        | 1.104                        | 1.050                        |
|                 | Left Tilted       | 13.50               | 20.30               | 0.639              | 0.110                 | 10.50               | 17.30               | 0.320              | 0.055                 | 0.266                             | 0.323                           | 0.071                           | 0.192                           | 0.641                      | 0.698                      | 0.964                        | 0.769                        | 0.890                        |
| LTE Band 66_UAT | Right Cheek       | 13.00               | 20.30               | 0.509              | 0.519                 | 10.00               | 17.30               | 0.255              | 0.260                 | 0.087                             | 0.140                           | 0.033                           | 0.063                           | 0.601                      | 0.654                      | 0.741                        | 0.687                        | 0.717                        |
|                 | Right Tilted      | 13.00               | 20.30               | 0.736              | 0.106                 | 10.00               | 17.30               | 0.368              | 0.053                 | 0.083                             | 0.186                           | 0.021                           | 0.059                           | 0.504                      | 0.607                      | 0.690                        | 0.628                        | 0.666                        |
|                 | Left Cheek        | 13.00               | 20.30               | 0.345              | 0.605                 | 10.00               | 17.30               | 0.173              | 0.303                 | 0.309                             | 0.259                           | 0.276                           | 0.222                           | 0.784                      | 0.734                      | 1.043                        | 1.010                        | 0.956                        |
|                 | Left Tilted       | 13.00               | 20.30               | 0.465              | 0.110                 | 10.00               | 17.30               | 0.233              | 0.055                 | 0.266                             | 0.323                           | 0.071                           | 0.192                           | 0.554                      | 0.611                      | 0.877                        | 0.682                        | 0.803                        |



| Head            |                   | Standalone          |                     |               |               | UL CA active          |                       |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|                 |                   | CC1                 | CC2                 | 1g SAR (W/kg) | 1g SAR (W/kg) | CC1                   | CC2                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Right Cheek       | 13.50               | 21.30               | 0.687         | 0.550         | 10.50                 | 18.30                 | 0.344         | 0.275         | 0.087               | 0.140             | 0.033             | 0.063             | 0.706                      | 0.759                      | 0.846                        | 0.792                        | 0.822                        |
|                 | Right Tilted      | 13.50               | 21.30               | 0.896         | 0.113         | 10.50                 | 18.30                 | 0.448         | 0.057         | 0.083               | 0.186             | 0.021             | 0.059             | 0.588                      | 0.691                      | 0.774                        | 0.712                        | 0.750                        |
|                 | Left Cheek        | 13.50               | 21.30               | 0.533         | 0.714         | 10.50                 | 18.30                 | 0.267         | 0.357         | 0.309               | 0.259             | 0.276             | 0.222             | 0.933                      | 0.883                      | 1.192                        | 1.159                        | 1.105                        |
|                 | Left Tilted       | 13.50               | 21.30               | 0.639         | 0.111         | 10.50                 | 18.30                 | 0.320         | 0.056         | 0.266               | 0.323             | 0.071             | 0.192             | 0.641                      | 0.698                      | 0.964                        | 0.769                        | 0.890                        |
| LTE Band 66_UAT | Right Cheek       | 13.00               | 21.30               | 0.509         | 0.550         | 10.00                 | 18.30                 | 0.255         | 0.275         | 0.087               | 0.140             | 0.033             | 0.063             | 0.617                      | 0.670                      | 0.757                        | 0.703                        | 0.733                        |
|                 | Right Tilted      | 13.00               | 21.30               | 0.736         | 0.113         | 10.00                 | 18.30                 | 0.368         | 0.057         | 0.083               | 0.186             | 0.021             | 0.059             | 0.508                      | 0.611                      | 0.694                        | 0.632                        | 0.670                        |
|                 | Left Cheek        | 13.00               | 21.30               | 0.345         | 0.714         | 10.00                 | 18.30                 | 0.173         | 0.357         | 0.309               | 0.259             | 0.276             | 0.222             | 0.839                      | 0.789                      | 1.098                        | 1.065                        | 1.011                        |
|                 | Left Tilted       | 13.00               | 21.30               | 0.465         | 0.111         | 10.00                 | 18.30                 | 0.233         | 0.056         | 0.266               | 0.323             | 0.071             | 0.192             | 0.554                      | 0.611                      | 0.877                        | 0.682                        | 0.803                        |

| Hotspot         |                   | Standalone          |                     |               |               | UL CA active        |                     |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                 | CC2                 | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|                 |                   |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Front             | 16.50               | 23.80               | 0.388         | 0.621         | 13.50               | 20.80               | 0.194         | 0.311         | 0.061               | 0.002             | 0.048             | 0.041             | 0.566                      | 0.507                      | 0.568                        | 0.555                        | 0.548                        |
|                 | Back              | 16.50               | 23.80               | 0.466         | 0.641         | 13.50               | 20.80               | 0.233         | 0.321         | 0.314               | 0.343             | 0.197             | 0.190             | 0.868                      | 0.897                      | 1.211                        | 1.094                        | 1.087                        |
|                 | Left side         | 16.50               | 23.80               | 0.096         | 0.890         | 13.50               | 20.80               | 0.048         | 0.445         |                     |                   |                   |                   | 0.493                      | 0.493                      | 0.493                        | 0.493                        | 0.493                        |
|                 | Right side        | 16.50               | 23.80               | 0.001         | 0.048         | 13.50               | 20.80               | 0.001         | 0.024         | 0.120               | 0.420             | 0.127             | 0.133             | 0.145                      | 0.445                      | 0.565                        | 0.572                        | 0.578                        |
|                 | Top side          | 16.50               | 23.80               | 0.653         | 0.012         | 13.50               | 20.80               | 0.327         | 0.006         | 0.081               | 0.068             | 0.309             | 0.054             | 0.414                      | 0.401                      | 0.482                        | 0.710                        | 0.455                        |
|                 | Bottom side       |                     |                     |               |               |                     |                     |               |               |                     |                   |                   |                   | 0.000                      | 0.000                      | 0.000                        | 0.000                        | 0.000                        |
| LTE Band 66_UAT | Front             | 22.00               | 23.80               | 0.515         | 0.621         | 19.00               | 20.80               | 0.258         | 0.311         | 0.061               | 0.002             | 0.048             | 0.041             | 0.629                      | 0.570                      | 0.631                        | 0.618                        | 0.611                        |
|                 | Back              | 22.00               | 23.80               | 0.555         | 0.641         | 19.00               | 20.80               | 0.278         | 0.321         | 0.314               | 0.343             | 0.197             | 0.190             | 0.912                      | 0.941                      | 1.255                        | 1.138                        | 1.131                        |
|                 | Left side         | 22.00               | 23.80               | 0.163         | 0.890         | 19.00               | 20.80               | 0.082         | 0.445         |                     |                   |                   |                   | 0.527                      | 0.527                      | 0.527                        | 0.527                        | 0.527                        |
|                 | Right side        | 22.00               | 23.80               | 0.001         | 0.048         | 19.00               | 20.80               | 0.001         | 0.024         | 0.120               | 0.420             | 0.127             | 0.133             | 0.145                      | 0.445                      | 0.565                        | 0.572                        | 0.578                        |
|                 | Top side          | 22.00               | 23.80               | 0.918         | 0.012         | 19.00               | 20.80               | 0.459         | 0.006         | 0.081               | 0.068             | 0.309             | 0.054             | 0.546                      | 0.533                      | 0.614                        | 0.842                        | 0.587                        |
|                 | Bottom side       |                     |                     |               |               |                     |                     |               |               |                     |                   |                   |                   | 0.000                      | 0.000                      | 0.000                        | 0.000                        | 0.000                        |

| Hotspot         |                   | Standalone          |                     |               |               | UL CA active          |                       |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|                 |                   | CC1                 | CC2                 | 1g SAR (W/kg) | 1g SAR (W/kg) | CC1                   | CC2                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Front             | 16.50               | 22.30               | 0.388         | 0.472         | 13.50                 | 19.30                 | 0.194         | 0.236         | 0.061               | 0.002             | 0.048             | 0.041             | 0.491                      | 0.432                      | 0.493                        | 0.480                        | 0.473                        |
|                 | Back              | 16.50               | 22.30               | 0.466         | 0.519         | 13.50                 | 19.30                 | 0.233         | 0.260         | 0.314               | 0.343             | 0.197             | 0.190             | 0.807                      | 0.836                      | 1.150                        | 1.033                        | 1.026                        |
|                 | Left side         | 16.50               | 22.30               | 0.096         | 0.764         | 13.50                 | 19.30                 | 0.048         | 0.382         |                     |                   |                   |                   | 0.430                      | 0.430                      | 0.430                        | 0.430                        | 0.430                        |
|                 | Right side        | 16.50               | 22.30               | 0.001         | 0.031         | 13.50                 | 19.30                 | 0.001         | 0.016         | 0.120               | 0.420             | 0.127             | 0.133             | 0.136                      | 0.436                      | 0.556                        | 0.563                        | 0.569                        |
|                 | Top side          | 16.50               | 22.30               | 0.653         | 0.069         | 13.50                 | 19.30                 | 0.327         | 0.035         | 0.081               | 0.068             | 0.309             | 0.054             | 0.442                      | 0.429                      | 0.510                        | 0.738                        | 0.483                        |
|                 | Bottom side       |                     |                     |               |               |                       |                       |               |               |                     |                   |                   |                   | 0.000                      | 0.000                      | 0.000                        | 0.000                        | 0.000                        |
| LTE Band 66_UAT | Front             | 22.00               | 22.30               | 0.515         | 0.472         | 19.00                 | 19.30                 | 0.258         | 0.236         | 0.061               | 0.002             | 0.048             | 0.041             | 0.555                      | 0.496                      | 0.557                        | 0.544                        | 0.537                        |
|                 | Back              | 22.00               | 22.30               | 0.555         | 0.519         | 19.00                 | 19.30                 | 0.278         | 0.260         | 0.314               | 0.343             | 0.197             | 0.190             | 0.851                      | 0.880                      | 1.194                        | 1.077                        | 1.070                        |
|                 | Left side         | 22.00               | 22.30               | 0.163         | 0.764         | 19.00                 | 19.30                 | 0.082         | 0.382         |                     |                   |                   |                   | 0.464                      | 0.464                      | 0.464                        | 0.464                        | 0.464                        |
|                 | Right side        | 22.00               | 22.30               | 0.001         | 0.031         | 19.00                 | 19.30                 | 0.001         | 0.016         | 0.120               | 0.420             | 0.127             | 0.133             | 0.136                      | 0.436                      | 0.556                        | 0.563                        | 0.569                        |
|                 | Top side          | 22.00               | 22.30               | 0.918         | 0.069         | 19.00                 | 19.30                 | 0.459         | 0.035         | 0.081               | 0.068             | 0.309             | 0.054             | 0.575                      | 0.562                      | 0.643                        | 0.871                        | 0.616                        |
|                 | Bottom side       |                     |                     |               |               |                       |                       |               |               |                     |                   |                   |                   | 0.000                      | 0.000                      | 0.000                        | 0.000                        | 0.000                        |



| Body-worn       |                   | Standalone          |                     |               |               | UL CA active        |                     |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                 | CC2                 | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|                 |                   |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Front             | 22.00               | 23.80               | 0.353         | 0.345         | 19.00               | 20.80               | 0.177         | 0.173         | 0.054               | 0.063             | 0.008             | 0.011             | 0.403                      | 0.412                      | 0.466                        | 0.420                        | 0.423                        |
|                 | Back              | 22.00               | 23.80               | 0.462         | 0.384         | 19.00               | 20.80               | 0.231         | 0.192         | 0.352               | 0.455             | 0.067             | 0.076             | 0.775                      | 0.878                      | 1.230                        | 0.945                        | 0.954                        |
| LTE Band 66_UAT | Front             | 22.00               | 23.80               | 0.219         | 0.345         | 19.00               | 20.80               | 0.110         | 0.173         | 0.054               | 0.063             | 0.008             | 0.011             | 0.336                      | 0.345                      | 0.399                        | 0.353                        | 0.356                        |
|                 | Back              | 22.00               | 23.80               | 0.313         | 0.384         | 19.00               | 20.80               | 0.157         | 0.192         | 0.352               | 0.455             | 0.067             | 0.076             | 0.701                      | 0.804                      | 1.156                        | 0.871                        | 0.880                        |

| Body-worn       |                   | Standalone          |                     |               |               | UL CA active          |                       |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------------|-------------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band       | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|                 |                   |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) |                       |                       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE Band 2_UAT  | Front             | 22.00               | 23.80               | 0.353         | 0.353         | 19.00                 | 20.80                 | 0.177         | 0.177         | 0.054               | 0.063             | 0.008             | 0.011             | 0.407                      | 0.416                      | 0.470                        | 0.424                        | 0.427                        |
|                 | Back              | 22.00               | 23.80               | 0.462         | 0.408         | 19.00                 | 20.80                 | 0.231         | 0.204         | 0.352               | 0.455             | 0.067             | 0.076             | 0.787                      | 0.890                      | 1.242                        | 0.957                        | 0.966                        |
| LTE Band 66_UAT | Front             | 22.00               | 23.80               | 0.219         | 0.353         | 19.00                 | 20.80                 | 0.110         | 0.177         | 0.054               | 0.063             | 0.008             | 0.011             | 0.340                      | 0.349                      | 0.403                        | 0.357                        | 0.360                        |
|                 | Back              | 22.00               | 23.80               | 0.313         | 0.408         | 19.00                 | 20.80                 | 0.157         | 0.204         | 0.352               | 0.455             | 0.067             | 0.076             | 0.713                      | 0.816                      | 1.168                        | 0.883                        | 0.892                        |

## &lt;LAT antenna&gt;

| Head      |                   | Standalone          |                     |               |               | UL CA active        |                     |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |       |
|-----------|-------------------|---------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|-------|
| WWAN Band | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                 | CC2                 | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |       |
|           |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |       |
|           |                   | 1g SAR (W/kg)       | 1g SAR (W/kg)       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     |                   |                   |                            |                            |                              |                              |                              |       |
| LTE       | LTE Band 2_LAT    | Right Cheek         | 23.80               | 23.80         | 0.355         | 0.168               | 20.80               | 20.80         | 0.178         | 0.084               | 0.087             | 0.140             | 0.033             | 0.063                      | 0.349                      | 0.402                        | 0.489                        | 0.435                        | 0.465 |
|           |                   | Right Tilted        | 23.80               | 23.80         | 0.184         | 0.095               | 20.80               | 20.80         | 0.092         | 0.048               | 0.083             | 0.186             | 0.021             | 0.059                      | 0.223                      | 0.326                        | 0.409                        | 0.347                        | 0.385 |
|           |                   | Left Cheek          | 23.80               | 23.80         | 0.178         | 0.206               | 20.80               | 20.80         | 0.089         | 0.103               | 0.309             | 0.259             | 0.276             | 0.222                      | 0.501                      | 0.451                        | 0.760                        | 0.727                        | 0.673 |
|           |                   | Left Tilted         | 23.80               | 23.80         | 0.137         | 0.084               | 20.80               | 20.80         | 0.069         | 0.042               | 0.266             | 0.323             | 0.071             | 0.192                      | 0.377                      | 0.434                        | 0.700                        | 0.505                        | 0.626 |
|           | LTE Band 66_LAT   | Right Cheek         | 23.80               | 23.80         | 0.272         | 0.168               | 20.80               | 20.80         | 0.136         | 0.084               | 0.087             | 0.140             | 0.033             | 0.063                      | 0.307                      | 0.360                        | 0.447                        | 0.393                        | 0.423 |
|           |                   | Right Tilted        | 23.80               | 23.80         | 0.141         | 0.095               | 20.80               | 20.80         | 0.071         | 0.048               | 0.083             | 0.186             | 0.021             | 0.059                      | 0.201                      | 0.304                        | 0.387                        | 0.325                        | 0.363 |
|           |                   | Left Cheek          | 23.80               | 23.80         | 0.228         | 0.206               | 20.80               | 20.80         | 0.114         | 0.103               | 0.309             | 0.259             | 0.276             | 0.222                      | 0.526                      | 0.476                        | 0.785                        | 0.752                        | 0.698 |
|           |                   | Left Tilted         | 23.80               | 23.80         | 0.099         | 0.084               | 20.80               | 20.80         | 0.050         | 0.042               | 0.266             | 0.323             | 0.071             | 0.192                      | 0.358                      | 0.415                        | 0.681                        | 0.486                        | 0.607 |



| Head      |                   |              | Standalone          |                     |               |               | UL CA active          |                       |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------|-------------------|--------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band | Exposure Position |              | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|           |                   |              | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|           |                   |              | CC1                 | CC2                 | 1g SAR (W/kg) | 1g SAR (W/kg) | CC1                   | CC2                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE       | LTE Band 2_LAT    | Right Cheek  | 23.80               | 23.80               | 0.355         | 0.116         | 20.80                 | 20.80                 | 0.178         | 0.058         | 0.087               | 0.140             | 0.033             | 0.063             | 0.323                      | 0.376                      | 0.463                        | 0.409                        | 0.439                        |
|           |                   | Right Tilted | 23.80               | 23.80               | 0.184         | 0.056         | 20.80                 | 20.80                 | 0.092         | 0.028         | 0.083               | 0.186             | 0.021             | 0.059             | 0.203                      | 0.306                      | 0.389                        | 0.327                        | 0.365                        |
|           |                   | Left Cheek   | 23.80               | 23.80               | 0.178         | 0.148         | 20.80                 | 20.80                 | 0.089         | 0.074         | 0.309               | 0.259             | 0.276             | 0.222             | 0.472                      | 0.422                      | 0.731                        | 0.698                        | 0.644                        |
|           |                   | Left Tilted  | 23.80               | 23.80               | 0.137         | 0.050         | 20.80                 | 20.80                 | 0.069         | 0.025         | 0.266               | 0.323             | 0.071             | 0.192             | 0.360                      | 0.417                      | 0.683                        | 0.488                        | 0.609                        |
|           | LTE Band 66_LAT   | Right Cheek  | 23.80               | 23.80               | 0.272         | 0.116         | 20.80                 | 20.80                 | 0.136         | 0.058         | 0.087               | 0.140             | 0.033             | 0.063             | 0.281                      | 0.334                      | 0.421                        | 0.367                        | 0.397                        |
|           |                   | Right Tilted | 23.80               | 23.80               | 0.141         | 0.056         | 20.80                 | 20.80                 | 0.071         | 0.028         | 0.083               | 0.186             | 0.021             | 0.059             | 0.182                      | 0.285                      | 0.368                        | 0.306                        | 0.344                        |
|           |                   | Left Cheek   | 23.80               | 23.80               | 0.228         | 0.148         | 20.80                 | 20.80                 | 0.114         | 0.074         | 0.309               | 0.259             | 0.276             | 0.222             | 0.497                      | 0.447                      | 0.756                        | 0.723                        | 0.669                        |
|           |                   | Left Tilted  | 23.80               | 23.80               | 0.099         | 0.050         | 20.80                 | 20.80                 | 0.050         | 0.025         | 0.266               | 0.323             | 0.071             | 0.192             | 0.341                      | 0.398                      | 0.664                        | 0.469                        | 0.590                        |

| Body      |                   |             | Standalone          |                     |               |               | UL CA active        |                     |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------|-------------------|-------------|---------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band | Exposure Position |             | CC1                 | CC2                 | CC1           | CC2           | CC1                 | CC2                 | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|           |                   |             | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|           |                   |             |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) |                     |                     | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE       | LTE Band 2_LAT    | Front       | 18.30               | 23.80               | 0.316         | 0.296         | 15.30               | 20.80               | 0.158         | 0.148         | 0.061               | 0.002             | 0.048             | 0.041             | 0.367                      | 0.308                      | 0.369                        | 0.356                        | 0.349                        |
|           |                   | Back        | 18.30               | 23.80               | 0.470         | 0.563         | 15.30               | 20.80               | 0.235         | 0.282         | 0.314               | 0.343             | 0.197             | 0.190             | 0.831                      | 0.860                      | 1.174                        | 1.057                        | 1.050                        |
|           |                   | Left side   | 18.30               | 23.80               | 0.054         | 0.275         | 15.30               | 20.80               | 0.027         | 0.138         |                     |                   |                   |                   | 0.165                      | 0.165                      | 0.165                        | 0.165                        | 0.165                        |
|           |                   | Right side  | 18.30               | 23.80               | 0.079         | 0.232         | 15.30               | 20.80               | 0.040         | 0.116         | 0.120               | 0.420             | 0.127             | 0.133             | 0.276                      | 0.576                      | 0.696                        | 0.703                        | 0.709                        |
|           |                   | Top side    |                     |                     |               |               |                     |                     |               |               | 0.081               | 0.068             | 0.309             | 0.054             | 0.081                      | 0.068                      | 0.149                        | 0.377                        | 0.122                        |
|           |                   | Bottom side | 18.30               | 23.80               | 0.517         | 0.188         | 15.30               | 20.80               | 0.259         | 0.094         |                     |                   |                   |                   | 0.353                      | 0.353                      | 0.353                        | 0.353                        | 0.353                        |
|           | LTE Band 66_LAT   | Front       | 20.80               | 23.80               | 0.463         | 0.296         | 17.80               | 20.80               | 0.232         | 0.148         | 0.061               | 0.002             | 0.048             | 0.041             | 0.441                      | 0.382                      | 0.443                        | 0.430                        | 0.423                        |
|           |                   | Back        | 20.80               | 23.80               | 0.711         | 0.563         | 17.80               | 20.80               | 0.356         | 0.282         | 0.314               | 0.343             | 0.197             | 0.190             | 0.951                      | 0.980                      | 1.294                        | 1.177                        | 1.170                        |
|           |                   | Left side   | 20.80               | 23.80               | 0.171         | 0.275         | 17.80               | 20.80               | 0.086         | 0.138         |                     |                   |                   |                   | 0.223                      | 0.223                      | 0.223                        | 0.223                        | 0.223                        |
|           |                   | Right side  | 20.80               | 23.80               | 0.098         | 0.232         | 17.80               | 20.80               | 0.049         | 0.116         | 0.120               | 0.420             | 0.127             | 0.133             | 0.285                      | 0.585                      | 0.705                        | 0.712                        | 0.718                        |
|           |                   | Top side    |                     |                     |               |               |                     |                     |               |               | 0.081               | 0.068             | 0.309             | 0.054             | 0.081                      | 0.068                      | 0.149                        | 0.377                        | 0.122                        |
|           |                   | Bottom side | 20.80               | 23.80               | 0.874         | 0.188         | 17.80               | 20.80               | 0.437         | 0.094         |                     |                   |                   |                   | 0.531                      | 0.531                      | 0.531                        | 0.531                        | 0.531                        |

| Body      |                   |             | Standalone          |                     |               |               | UL CA active          |                       |               |               | WLAN                |                   |                   |                   | Inter-band UL CA summation |                            |                              |                              |                              |
|-----------|-------------------|-------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band | Exposure Position |             | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                 | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|           |                   |             | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                            |                              |                              |                              |
|           |                   |             | CC1                 | CC2                 | 1g SAR (W/kg) | 1g SAR (W/kg) | CC1                   | CC2                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                            |                              |                              |                              |
| LTE       | LTE Band 2_LAT    | Front       | 18.30               | 23.80               | 0.316         | 0.299         | 15.30                 | 20.80                 | 0.158         | 0.150         | 0.061               | 0.002             | 0.048             | 0.041             | 0.369                      | 0.310                      | 0.371                        | 0.358                        | 0.351                        |
|           |                   | Back        | 18.30               | 23.80               | 0.470         | 0.387         | 15.30                 | 20.80                 | 0.235         | 0.194         | 0.314               | 0.343             | 0.197             | 0.190             | 0.743                      | 0.772                      | 1.086                        | 0.969                        | 0.962                        |
|           |                   | Left side   | 18.30               | 23.80               | 0.054         | 0.228         | 15.30                 | 20.80                 | 0.027         | 0.114         |                     |                   |                   |                   | 0.141                      | 0.141                      | 0.141                        | 0.141                        | 0.141                        |
|           |                   | Right side  | 18.30               | 23.80               | 0.079         | 0.196         | 15.30                 | 20.80                 | 0.040         | 0.098         | 0.120               | 0.420             | 0.127             | 0.133             | 0.258                      | 0.558                      | 0.678                        | 0.685                        | 0.691                        |
|           |                   | Top side    |                     |                     |               |               |                       |                       |               |               | 0.081               | 0.068             | 0.309             | 0.054             | 0.081                      | 0.068                      | 0.149                        | 0.377                        | 0.122                        |
|           |                   | Bottom side | 18.30               | 23.80               | 0.517         | 0.175         | 15.30                 | 20.80                 | 0.259         | 0.088         |                     |                   |                   |                   | 0.346                      | 0.346                      | 0.346                        | 0.346                        | 0.346                        |
|           | LTE Band 66_LAT   | Front       | 20.80               | 23.80               | 0.463         | 0.299         | 17.80                 | 20.80                 | 0.232         | 0.150         | 0.061               | 0.002             | 0.048             | 0.041             | 0.442                      | 0.383                      | 0.444                        | 0.431                        | 0.424                        |
|           |                   | Back        | 20.80               | 23.80               | 0.711         | 0.387         | 17.80                 | 20.80                 | 0.356         | 0.194         | 0.314               | 0.343             | 0.197             | 0.190             | 0.863                      | 0.892                      | 1.206                        | 1.089                        | 1.082                        |
|           |                   | Left side   | 20.80               | 23.80               | 0.171         | 0.228         | 17.80                 | 20.80                 | 0.086         | 0.114         |                     |                   |                   |                   | 0.200                      | 0.200                      | 0.200                        | 0.200                        | 0.200                        |
|           |                   | Right side  | 20.80               | 23.80               | 0.098         | 0.196         | 17.80                 | 20.80                 | 0.049         | 0.098         | 0.120               | 0.420             | 0.127             | 0.133             | 0.267                      | 0.567                      | 0.687                        | 0.694                        | 0.700                        |
|           |                   | Top side    |                     |                     |               |               |                       |                       |               |               | 0.081               | 0.068             | 0.309             | 0.054             | 0.081                      | 0.068                      | 0.149                        | 0.377                        | 0.122                        |
|           |                   | Bottom side | 20.80               | 23.80               | 0.874         | 0.175         | 17.80                 | 20.80                 | 0.437         | 0.088         |                     |                   |                   |                   | 0.525                      | 0.525                      | 0.525                        | 0.525                        | 0.525                        |



| Body-worn |                 | Standalone        |                     |                     |               | UL CA active  |                     |                     |               | WLAN          |                     |                   |                   | Inter-band UL CA summation |                            |                            |                              |                              |                              |
|-----------|-----------------|-------------------|---------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|-------------------|-------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band |                 | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                 | CC2                 | 1             | 8             | 2                   | 4                 | 6                 | 7                          | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|           |                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B12       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1          |                            |                            |                              |                              |                              |
|           |                 |                   | 1g SAR (W/kg)       | 1g SAR (W/kg)       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)              |                            |                            |                              |                              |                              |
| LTE       | LTE Band 2_LAT  | Front             | 23.80               | 23.80               | 0.656         | 0.286         | 20.80               | 20.80               | 0.328         | 0.143         | 0.054               | 0.063             | 0.008             | 0.011                      | 0.525                      | 0.534                      | 0.588                        | 0.542                        | 0.545                        |
|           | Back            | 23.80             | 23.80               | 0.669               | 0.394         | 20.80         | 20.80               | 0.335               | 0.197         | 0.352         | 0.455               | 0.067             | 0.076             | 0.884                      | 0.987                      | 1.339                      | 1.054                        | 1.063                        |                              |
|           | LTE Band 66_LAT | Front             | 23.80               | 23.80               | 0.583         | 0.286         | 20.80               | 20.80               | 0.292         | 0.143         | 0.054               | 0.063             | 0.008             | 0.011                      | 0.489                      | 0.498                      | 0.552                        | 0.506                        | 0.509                        |
|           | Back            | 23.80             | 23.80               | 0.651               | 0.394         | 20.80         | 20.80               | 0.326               | 0.197         | 0.352         | 0.455               | 0.067             | 0.076             | 0.875                      | 0.978                      | 1.330                      | 1.045                        | 1.054                        |                              |

| Body-worn |                 | Standalone        |                     |                     |               | UL CA active  |                       |                       |               | WLAN          |                     |                   |                   | Inter-band UL CA summation |                            |                            |                              |                              |                              |
|-----------|-----------------|-------------------|---------------------|---------------------|---------------|---------------|-----------------------|-----------------------|---------------|---------------|---------------------|-------------------|-------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| WWAN Band |                 | Exposure Position | CC1                 | CC2                 | CC1           | CC2           | CC1                   | CC2                   | 1             | 8             | 2                   | 4                 | 6                 | 7                          | 1+2+8 Summed 1g SAR (W/kg) | 1+4+8 Summed 1g SAR (W/kg) | 1+2+4+8 Summed 1g SAR (W/kg) | 1+4+6+8 Summed 1g SAR (W/kg) | 1+4+7+8 Summed 1g SAR (W/kg) |
|           |                 |                   | Tune-up Limit (dBm) | Tune-up Limit (dBm) | WWAN          | LTE B13       | Tune-up Limit-3 (dBm) | Tune-up Limit-3 (dBm) | WWAN          | LTE B13       | 2.4GHz WLAN Ant 1+2 | 5GHz WLAN Ant 1+2 | Bluetooth Chain 0 | Bluetooth Chain 1          |                            |                            |                              |                              |                              |
|           |                 |                   | CC1                 | CC2                 | 1g SAR (W/kg) | 1g SAR (W/kg) | CC1                   | CC2                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)              |                            |                            |                              |                              |                              |
| LTE       | LTE Band 2_LAT  | Front             | 23.80               | 23.80               | 0.656         | 0.285         | 20.80                 | 20.80                 | 0.328         | 0.143         | 0.054               | 0.063             | 0.008             | 0.011                      | 0.525                      | 0.534                      | 0.588                        | 0.542                        | 0.545                        |
|           |                 | Back              | 23.80               | 23.80               | 0.669         | 0.387         | 20.80                 | 20.80                 | 0.335         | 0.194         | 0.352               | 0.455             | 0.067             | 0.076                      | 0.880                      | 0.983                      | 1.335                        | 1.050                        | 1.059                        |
|           | LTE Band 66_LAT | Front             | 23.80               | 23.80               | 0.583         | 0.285         | 20.80                 | 20.80                 | 0.292         | 0.143         | 0.054               | 0.063             | 0.008             | 0.011                      | 0.488                      | 0.497                      | 0.551                        | 0.505                        | 0.508                        |
|           |                 | Back              | 23.80               | 23.80               | 0.651         | 0.387         | 20.80                 | 20.80                 | 0.326         | 0.194         | 0.352               | 0.455             | 0.067             | 0.076                      | 0.871                      | 0.974                      | 1.326                        | 1.041                        | 1.050                        |

## 18.6 5G NR EN-DC consideration

### <EN-DC combination and Maximum Power>

#### General Note:

- NR implementation of n71, n5, n66, n2, and n41 is limited to EN-DC operations only (NSA), with LTE Bands 2/5/12/13/25/26/66/41 acting as anchor bands, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
- Following 5G NR n2/n5/n66/n71 support SCS 15KHz DFT/CP-OFDM, PI/2 BPSK/QPSK/16QAM/64QAM/256QAM, Bandwidth 5M/10M/15M/20M.
- Following 5G NR n41 support SCS 30KHz DFT/CP-OFDM, PI/2 BPSK/QPSK/16QAM/64QAM/256QAM, Bandwidth 20M/40M/50M/60M/80M/90M/100M.
- Test positions and test channels used for the testing below are based on the standalone SAR result. When the EN-DC active the LTE Anchors Band output power is equal or less than the standalone output power for each frequency bands, therefore, LTE Anchors Band power and SAR was estimated based on standalone results to performed sim-Tx analysis with 5G NR and WiFi and Bluetooth.
- The single uplink 1g SAR values for each LTE Anchors Bands and 5G NR are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg, additional measurements are not required according to TCBC workshop guidance, the detail sim-Tx analysis as following.

| Exposure position | LAT EN-DC 5G NR combination |                                |                                  |                   |                                  | Combination                        |
|-------------------|-----------------------------|--------------------------------|----------------------------------|-------------------|----------------------------------|------------------------------------|
|                   | LTE Single Carrier          |                                |                                  | NR Single Carrier |                                  |                                    |
|                   | LTE Anchors Band            | Standalone Maximum Power (dBm) | EN-DC Active Maximum Power (dBm) | Band              | EN-DC Active Maximum Power (dBm) |                                    |
| Head              | LTE Band 12_LAT             | 23.80                          | 23.80                            | N2_LAT            | 23.80                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_LAT              | 23.80                          | 23.80                            | N2_LAT            | 23.80                            |                                    |
|                   | LTE Band 66_LAT             | 23.80                          | 23.80                            | N5_LAT            | 23.80                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 2/25_LAT           | 23.80                          | 23.80                            | N5_LAT            | 23.80                            |                                    |
|                   | LTE Band 12_LAT             | 23.80                          | 23.80                            | N66_LAT           | 23.80                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 13_LAT             | 23.80                          | 23.80                            | N66_LAT           | 23.80                            |                                    |
|                   | LTE Band 5_LAT              | 23.80                          | 23.80                            | N66_LAT           | 23.80                            |                                    |
|                   | LTE Band 66_LAT             | 23.80                          | 23.80                            | N71_LAT           | 23.80                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 2/25_UAT           | 23.80                          | 23.80                            | N71_LAT           | 23.80                            |                                    |
|                   | LTE Band 26_LAT             | 23.80                          | 23.80                            | N41_TX0_LAT       | 23.80                            | DC_26A_n41A                        |
| Hotspot           | LTE Band 12_LAT             | 23.80                          | 22.30                            | N2_LAT            | 21.00                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_LAT              | 23.80                          | 23.80                            | N2_LAT            | 21.00                            |                                    |
|                   | LTE Band 2/25_LAT           | 18.30                          | 17.00                            | N5_LAT            | 23.30                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 66_LAT             | 20.80                          | 17.80                            | N5_LAT            | 23.30                            |                                    |
|                   | LTE Band 13_LAT             | 23.80                          | 23.80                            | N66_LAT           | 23.00                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 5_LAT              | 23.80                          | 23.80                            | N66_LAT           | 23.00                            |                                    |
|                   | LTE Band 12_LAT             | 23.80                          | 22.30                            | N66_LAT           | 23.00                            |                                    |
|                   | LTE Band 2/25_LAT           | 18.30                          | 17.00                            | N71_LAT           | 22.30                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 66_LAT             | 20.80                          | 17.80                            | N71_LAT           | 22.30                            |                                    |
|                   | LTE Band 26_LAT             | 23.80                          | 23.80                            | N41_TX0_LAT       | 21.00                            | DC_26A_n41A                        |
| Body-worn         | LTE Band 12_LAT             | 23.80                          | 23.80                            | N2_LAT            | 23.80                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_LAT              | 23.80                          | 22.80                            | N2_LAT            | 23.80                            |                                    |
|                   | LTE Band 2/25_LAT           | 23.80                          | 21.50                            | N5_LAT            | 23.80                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 66_LAT             | 23.80                          | 21.50                            | N5_LAT            | 23.80                            |                                    |
|                   | LTE Band 13_LAT             | 23.80                          | 22.80                            | N66_LAT           | 23.80                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 5_LAT              | 23.80                          | 22.80                            | N66_LAT           | 23.80                            |                                    |
|                   | LTE Band 12_LAT             | 23.80                          | 23.80                            | N66_LAT           | 23.80                            |                                    |
|                   | LTE Band 2/25_LAT           | 23.80                          | 21.50                            | N71_LAT           | 23.80                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 66_LAT             | 23.80                          | 21.50                            | N71_LAT           | 23.80                            |                                    |
|                   | LTE Band 26_LAT             | 23.80                          | 22.80                            | N41_TX0_LAT       | 23.80                            | DC_26A_n41A                        |

**<Head exposure condition>**

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n2_LAT  | LTE Band 12_LAT | Right Cheek       | 23.8                               | 0.168                        | 23.80                                | 0.168                                            | 0.216              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.471                      | 0.557                        | 0.587                        |
|         |                 | Right Tilted      | 23.8                               | 0.095                        | 23.80                                | 0.095                                            | 0.128              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.306                      | 0.430                        | 0.468                        |
|         |                 | Left Cheek        | 23.8                               | 0.206                        | 23.80                                | 0.206                                            | 0.140              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.655                      | 0.881                        | 0.827                        |
|         |                 | Left Tilted       | 23.8                               | 0.084                        | 23.80                                | 0.084                                            | 0.105              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.455                      | 0.583                        | 0.704                        |
| n2_LAT  | LTE Band 5_LAT  | Right Cheek       | 23.8                               | 0.145                        | 23.80                                | 0.145                                            | 0.216              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.448                      | 0.534                        | 0.564                        |
|         |                 | Right Tilted      | 23.8                               | 0.089                        | 23.80                                | 0.089                                            | 0.128              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.300                      | 0.424                        | 0.462                        |
|         |                 | Left Cheek        | 23.8                               | 0.205                        | 23.80                                | 0.205                                            | 0.140              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.654                      | 0.880                        | 0.826                        |
|         |                 | Left Tilted       | 23.8                               | 0.088                        | 23.80                                | 0.088                                            | 0.105              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.459                      | 0.587                        | 0.708                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n5_LAT  | LTE Band 66_LAT   | Right Cheek       | 23.8                               | 0.272                        | 23.80                                | 0.272                                            | 0.111              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.470                      | 0.556                        | 0.586                        |
|         |                   | Right Tilted      | 23.8                               | 0.141                        | 23.80                                | 0.141                                            | 0.070              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.294                      | 0.418                        | 0.456                        |
|         |                   | Left Cheek        | 23.8                               | 0.228                        | 23.80                                | 0.228                                            | 0.157              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.694                      | 0.920                        | 0.866                        |
|         |                   | Left Tilted       | 23.8                               | 0.099                        | 23.80                                | 0.099                                            | 0.068              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.433                      | 0.561                        | 0.682                        |
| n5_LAT  | LTE Band 2/25_LAT | Right Cheek       | 23.8                               | 0.355                        | 23.80                                | 0.355                                            | 0.111              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.553                      | 0.639                        | 0.669                        |
|         |                   | Right Tilted      | 23.8                               | 0.184                        | 23.80                                | 0.184                                            | 0.070              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.337                      | 0.461                        | 0.499                        |
|         |                   | Left Cheek        | 23.8                               | 0.178                        | 23.80                                | 0.178                                            | 0.157              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.644                      | 0.870                        | 0.816                        |
|         |                   | Left Tilted       | 23.8                               | 0.137                        | 23.80                                | 0.137                                            | 0.068              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.471                      | 0.599                        | 0.720                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n66_LAT | LTE Band 12_LAT | Right Cheek       | 23.8                               | 0.168                        | 23.80                                | 0.168                                            | 0.134              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.389                      | 0.475                        | 0.505                        |
|         |                 | Right Tilted      | 23.8                               | 0.095                        | 23.80                                | 0.095                                            | 0.127              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.305                      | 0.429                        | 0.467                        |
|         |                 | Left Cheek        | 23.8                               | 0.206                        | 23.80                                | 0.206                                            | 0.213              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.728                      | 0.954                        | 0.900                        |
|         |                 | Left Tilted       | 23.8                               | 0.084                        | 23.80                                | 0.084                                            | 0.119              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.469                      | 0.597                        | 0.718                        |
| n66_LAT | LTE Band 13_LAT | Right Cheek       | 23.8                               | 0.116                        | 23.80                                | 0.116                                            | 0.134              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.337                      | 0.423                        | 0.453                        |
|         |                 | Right Tilted      | 23.8                               | 0.056                        | 23.80                                | 0.056                                            | 0.127              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.266                      | 0.390                        | 0.428                        |
|         |                 | Left Cheek        | 23.8                               | 0.148                        | 23.80                                | 0.148                                            | 0.213              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.670                      | 0.896                        | 0.842                        |
|         |                 | Left Tilted       | 23.8                               | 0.050                        | 23.80                                | 0.050                                            | 0.119              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.435                      | 0.563                        | 0.684                        |
| n66_LAT | LTE Band 5_LAT  | Right Cheek       | 23.8                               | 0.145                        | 23.80                                | 0.145                                            | 0.134              | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.366                      | 0.452                        | 0.482                        |
|         |                 | Right Tilted      | 23.8                               | 0.089                        | 23.80                                | 0.089                                            | 0.127              | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.299                      | 0.423                        | 0.461                        |
|         |                 | Left Cheek        | 23.8                               | 0.205                        | 23.80                                | 0.205                                            | 0.213              | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.727                      | 0.953                        | 0.899                        |
|         |                 | Left Tilted       | 23.8                               | 0.088                        | 23.80                                | 0.088                                            | 0.119              | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.473                      | 0.601                        | 0.722                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n71_LAT | LTE Band 66_LAT   | Right Cheek       | 23.8                               | 0.272                        | 23.80                                | 0.272                                            | 0.107                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.466                      | 0.552                        | 0.582                        |
|         |                   | Right Tilted      | 23.8                               | 0.141                        | 23.80                                | 0.141                                            | 0.052                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.276                      | 0.400                        | 0.438                        |
|         |                   | Left Cheek        | 23.8                               | 0.228                        | 23.80                                | 0.228                                            | 0.144                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.681                      | 0.907                        | 0.853                        |
|         |                   | Left Tilted       | 23.8                               | 0.099                        | 23.80                                | 0.099                                            | 0.050                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.415                      | 0.543                        | 0.664                        |
| n71_LAT | LTE Band 2/25_LAT | Right Cheek       | 23.8                               | 0.355                        | 23.80                                | 0.355                                            | 0.107                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.549                      | 0.635                        | 0.665                        |
|         |                   | Right Tilted      | 23.8                               | 0.184                        | 23.80                                | 0.184                                            | 0.052                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.319                      | 0.443                        | 0.481                        |
|         |                   | Left Cheek        | 23.8                               | 0.178                        | 23.80                                | 0.178                                            | 0.144                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.631                      | 0.857                        | 0.803                        |
|         |                   | Left Tilted       | 23.8                               | 0.137                        | 23.80                                | 0.137                                            | 0.050                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.453                      | 0.581                        | 0.702                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n41_LAT | LTE Band 26_LAT | Right Cheek       | 23.8                               | 0.082                        | 23.80                                | 0.082                                            | 0.135                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.304                      | 0.390                        | 0.420                        |
|         |                 | Right Tilted      | 23.8                               | 0.091                        | 23.80                                | 0.091                                            | 0.177                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.351                      | 0.475                        | 0.513                        |
|         |                 | Left Cheek        | 23.8                               | 0.199                        | 23.80                                | 0.199                                            | 0.249                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.757                      | 0.983                        | 0.929                        |
|         |                 | Left Tilted       | 23.8                               | 0.073                        | 23.80                                | 0.073                                            | 0.141                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.480                      | 0.608                        | 0.729                        |

### <Hotspot exposure condition>

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n2_LAT  | LTE Band 12_LAT | Front             | 23.80                              | 0.296                        | 22.30                                | 0.210                                            | 0.462                    | 0.061                             | 0.002                           | 0.048                                   | 0.041                                   | 0.733                      | 0.722                        | 0.715                        |
|         |                 | Back              | 23.80                              | 0.563                        | 22.30                                | 0.399                                            | 0.534                    | 0.314                             | 0.343                           | 0.197                                   | 0.190                                   | 1.246                      | 1.472                        | 1.465                        |
|         |                 | Left side         | 23.80                              | 0.275                        | 22.30                                | 0.195                                            | 0.091                    |                                   |                                 |                                         |                                         | 0.286                      | 0.286                        | 0.286                        |
|         |                 | Right side        | 23.80                              | 0.232                        | 22.30                                | 0.164                                            | 0.099                    | 0.120                             | 0.420                           | 0.127                                   | 0.133                                   | 0.383                      | 0.810                        | 0.816                        |
|         |                 | Top side          | 23.80                              |                              | 22.30                                |                                                  |                          | 0.081                             | 0.068                           | 0.309                                   | 0.054                                   | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.188                        | 22.30                                | 0.133                                            | 0.676                    |                                   |                                 |                                         |                                         | 0.809                      | 0.809                        | 0.809                        |
| n2_LAT  | LTE Band 5_LAT  | Front             | 23.80                              | 0.334                        | 23.80                                | 0.334                                            | 0.462                    | 0.061                             | 0.002                           | 0.048                                   | 0.041                                   | 0.857                      | 0.846                        | 0.839                        |
|         |                 | Back              | 23.80                              | 0.414                        | 23.80                                | 0.414                                            | 0.534                    | 0.314                             | 0.343                           | 0.197                                   | 0.190                                   | 1.262                      | 1.488                        | 1.481                        |
|         |                 | Left side         | 23.80                              | 0.172                        | 23.80                                | 0.172                                            | 0.091                    |                                   |                                 |                                         |                                         | 0.263                      | 0.263                        | 0.263                        |
|         |                 | Right side        | 23.80                              | 0.210                        | 23.80                                | 0.210                                            | 0.099                    | 0.120                             | 0.420                           | 0.127                                   | 0.133                                   | 0.429                      | 0.856                        | 0.862                        |
|         |                 | Top side          | 23.80                              |                              | 23.80                                |                                                  |                          | 0.081                             | 0.068                           | 0.309                                   | 0.054                                   | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.259                        | 23.80                                | 0.259                                            | 0.676                    |                                   |                                 |                                         |                                         | 0.935                      | 0.935                        | 0.935                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2             | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|---------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n5_LAT  | LTE Band 2/25_LAT | Front             | 18.30                              | 0.316                        | 17.00                                | 0.234                                    | 0.191         | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.486                      | 0.475                        | 0.468                        |
|         |                   | Back              | 18.30                              | 0.470                        | 17.00                                | 0.348                                    | 0.256         | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.919                      | 1.145                        | 1.138                        |
|         |                   | Left side         | 18.30                              | 0.054                        | 17.00                                | 0.040                                    | 0.095         |                           |                         |                                 |                                 | 0.135                      | 0.135                        | 0.135                        |
|         |                   | Right side        | 18.30                              | 0.079                        | 17.00                                | 0.059                                    | 0.163         | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.342                      | 0.769                        | 0.775                        |
|         |                   | Top side          | 18.30                              |                              | 17.00                                |                                          |               | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.081                      | 0.377                        | 0.122                        |
|         |                   | Bottom side       | 18.30                              | 0.517                        | 17.00                                | 0.383                                    | 0.139         |                           |                         |                                 |                                 | 0.523                      | 0.523                        | 0.523                        |
| n5_LAT  | LTE Band 66_LAT   | Front             | 20.80                              | 0.463                        | 17.80                                | 0.232                                    | 0.191         | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.484                      | 0.473                        | 0.466                        |
|         |                   | Back              | 20.80                              | 0.711                        | 17.80                                | 0.356                                    | 0.256         | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.927                      | 1.153                        | 1.146                        |
|         |                   | Left side         | 20.80                              | 0.171                        | 17.80                                | 0.086                                    | 0.095         |                           |                         |                                 |                                 | 0.181                      | 0.181                        | 0.181                        |
|         |                   | Right side        | 20.80                              | 0.098                        | 17.80                                | 0.049                                    | 0.163         | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.333                      | 0.760                        | 0.766                        |
|         |                   | Top side          | 20.80                              |                              | 17.80                                |                                          |               | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.081                      | 0.377                        | 0.122                        |
|         |                   | Bottom side       | 20.80                              | 0.874                        | 17.80                                | 0.438                                    | 0.139         |                           |                         |                                 |                                 | 0.577                      | 0.577                        | 0.577                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2             | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|---------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n66_LAT | LTE Band 13_LAT | Front             | 23.80                              | 0.299                        | 23.80                                | 0.299                                    | 0.501         | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.861                      | 0.850                        | 0.843                        |
|         |                 | Back              | 23.80                              | 0.387                        | 23.80                                | 0.387                                    | 0.583         | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.284                      | 1.510                        | 1.503                        |
|         |                 | Left side         | 23.80                              | 0.228                        | 23.80                                | 0.228                                    | 0.223         |                           |                         |                                 |                                 | 0.451                      | 0.451                        | 0.451                        |
|         |                 | Right side        | 23.80                              | 0.196                        | 23.80                                | 0.196                                    | 0.147         | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.463                      | 0.890                        | 0.896                        |
|         |                 | Top side          | 23.80                              |                              | 23.80                                |                                          |               | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.175                        | 23.80                                | 0.175                                    | 0.798         |                           |                         |                                 |                                 | 0.973                      | 0.973                        | 0.973                        |
| n66_LAT | LTE Band 5_LAT  | Front             | 23.80                              | 0.334                        | 23.80                                | 0.334                                    | 0.501         | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.896                      | 0.885                        | 0.878                        |
|         |                 | Back              | 23.80                              | 0.414                        | 23.80                                | 0.414                                    | 0.583         | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.311                      | 1.537                        | 1.530                        |
|         |                 | Left side         | 23.80                              | 0.172                        | 23.80                                | 0.172                                    | 0.223         |                           |                         |                                 |                                 | 0.395                      | 0.395                        | 0.395                        |
|         |                 | Right side        | 23.80                              | 0.210                        | 23.80                                | 0.210                                    | 0.147         | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.477                      | 0.904                        | 0.910                        |
|         |                 | Top side          | 23.80                              |                              | 23.80                                |                                          |               | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.259                        | 23.80                                | 0.259                                    | 0.798         |                           |                         |                                 |                                 | 1.057                      | 1.057                        | 1.057                        |
| n66_LAT | LTE Band 12_LAT | Front             | 23.80                              | 0.296                        | 22.30                                | 0.210                                    | 0.501         | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.771                      | 0.760                        | 0.753                        |
|         |                 | Back              | 23.80                              | 0.563                        | 22.30                                | 0.399                                    | 0.583         | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 1.295                      | 1.521                        | 1.514                        |
|         |                 | Left side         | 23.80                              | 0.275                        | 22.30                                | 0.195                                    | 0.223         |                           |                         |                                 |                                 | 0.418                      | 0.418                        | 0.418                        |
|         |                 | Right side        | 23.80                              | 0.232                        | 22.30                                | 0.164                                    | 0.147         | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.432                      | 0.859                        | 0.865                        |
|         |                 | Top side          | 23.80                              |                              | 22.30                                |                                          |               | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.188                        | 22.30                                | 0.133                                    | 0.798         |                           |                         |                                 |                                 | 0.931                      | 0.931                        | 0.931                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n71_LAT | LTE Band 2/25_LAT | Front             | 18.30                              | 0.316                        | 17.00                                | 0.234                                            | 0.155                    | 0.061                             | 0.002                           | 0.048                                   | 0.041                                   | 0.450                      | 0.439                        | 0.432                        |
|         |                   | Back              | 18.30                              | 0.470                        | 17.00                                | 0.348                                            | 0.194                    | 0.314                             | 0.343                           | 0.197                                   | 0.190                                   | 0.857                      | 1.083                        | 1.076                        |
|         |                   | Left side         | 18.30                              | 0.054                        | 17.00                                | 0.040                                            | 0.068                    |                                   |                                 |                                         |                                         | 0.108                      | 0.108                        | 0.108                        |
|         |                   | Right side        | 18.30                              | 0.079                        | 17.00                                | 0.059                                            | 0.137                    | 0.120                             | 0.420                           | 0.127                                   | 0.133                                   | 0.315                      | 0.742                        | 0.748                        |
|         |                   | Top side          | 18.30                              |                              | 17.00                                |                                                  |                          | 0.081                             | 0.068                           | 0.309                                   | 0.054                                   | 0.081                      | 0.377                        | 0.122                        |
|         |                   | Bottom side       | 18.30                              | 0.517                        | 17.00                                | 0.383                                            | 0.095                    |                                   |                                 |                                         |                                         | 0.479                      | 0.479                        | 0.479                        |
| n71_LAT | LTE Band 66_LAT   | Front             | 20.80                              | 0.463                        | 17.80                                | 0.232                                            | 0.155                    | 0.061                             | 0.002                           | 0.048                                   | 0.041                                   | 0.448                      | 0.437                        | 0.430                        |
|         |                   | Back              | 20.80                              | 0.711                        | 17.80                                | 0.356                                            | 0.194                    | 0.314                             | 0.343                           | 0.197                                   | 0.190                                   | 0.865                      | 1.091                        | 1.084                        |
|         |                   | Left side         | 20.80                              | 0.171                        | 17.80                                | 0.086                                            | 0.068                    |                                   |                                 |                                         |                                         | 0.154                      | 0.154                        | 0.154                        |
|         |                   | Right side        | 20.80                              | 0.098                        | 17.80                                | 0.049                                            | 0.137                    | 0.120                             | 0.420                           | 0.127                                   | 0.133                                   | 0.306                      | 0.733                        | 0.739                        |
|         |                   | Top side          | 20.80                              |                              | 17.80                                |                                                  |                          | 0.081                             | 0.068                           | 0.309                                   | 0.054                                   | 0.081                      | 0.377                        | 0.122                        |
|         |                   | Bottom side       | 20.80                              | 0.874                        | 17.80                                | 0.438                                            | 0.095                    |                                   |                                 |                                         |                                         | 0.534                      | 0.534                        | 0.534                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n41_LAT | LTE Band 26_LAT | Front             | 23.80                              | 0.382                        | 23.80                                | 0.382                                            | 0.387                    | 0.061                             | 0.002                           | 0.048                                   | 0.041                                   | 0.830                      | 0.819                        | 0.812                        |
|         |                 | Back              | 23.80                              | 0.536                        | 23.80                                | 0.536                                            | 0.446                    | 0.314                             | 0.343                           | 0.197                                   | 0.190                                   | 1.296                      | 1.522                        | 1.515                        |
|         |                 | Left side         | 23.80                              | 0.186                        | 23.80                                | 0.186                                            | 0.124                    |                                   |                                 |                                         |                                         | 0.310                      | 0.310                        | 0.310                        |
|         |                 | Right side        | 23.80                              | 0.221                        | 23.80                                | 0.221                                            | 0.125                    | 0.120                             | 0.420                           | 0.127                                   | 0.133                                   | 0.466                      | 0.893                        | 0.899                        |
|         |                 | Top side          | 23.80                              |                              | 23.80                                |                                                  |                          | 0.081                             | 0.068                           | 0.309                                   | 0.054                                   | 0.081                      | 0.377                        | 0.122                        |
|         |                 | Bottom side       | 23.80                              | 0.196                        | 23.80                                | 0.196                                            | 0.428                    |                                   |                                 |                                         |                                         | 0.624                      | 0.624                        | 0.624                        |

### <Body-worn exposure condition>

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n2_LAT  | LTE Band 12_LAT | Front             | 23.80                              | 0.286                        | 23.80                                | 0.286                                            | 0.524                    | 0.054                             | 0.063                           | 0.008                                   | 0.011                                   | 0.864                      | 0.881                        | 0.884                        |
|         |                 | Back              | 23.80                              | 0.394                        | 23.80                                | 0.394                                            | 0.562                    | 0.352                             | 0.455                           | 0.067                                   | 0.076                                   | 1.308                      | 1.478                        | 1.487                        |
| n2_LAT  | LTE Band 5_LAT  | Front             | 23.80                              | 0.235                        | 22.80                                | 0.187                                            | 0.524                    | 0.054                             | 0.063                           | 0.260                                   | 0.076                                   | 0.765                      | 1.034                        | 0.850                        |
|         |                 | Back              | 23.80                              | 0.331                        | 22.80                                | 0.263                                            | 0.562                    | 0.352                             | 0.455                           | 0.260                                   | 0.076                                   | 1.177                      | 1.540                        | 1.356                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n5_LAT  | LTE Band 2/25_LAT | Front             | 23.80                              | 0.656                        | 21.50                                | 0.386                                            | 0.169                    | 0.054                             | 0.063                           | 0.008                                   | 0.011                                   | 0.610                      | 0.627                        | 0.630                        |
|         |                   | Back              | 23.80                              | 0.669                        | 21.50                                | 0.394                                            | 0.230                    | 0.352                             | 0.455                           | 0.067                                   | 0.076                                   | 0.976                      | 1.146                        | 1.155                        |
| n5_LAT  | LTE Band 66_LAT   | Front             | 23.80                              | 0.583                        | 21.50                                | 0.343                                            | 0.169                    | 0.054                             | 0.063                           | 0.260                                   | 0.076                                   | 0.567                      | 0.836                        | 0.652                        |
|         |                   | Back              | 23.80                              | 0.651                        | 21.50                                | 0.383                                            | 0.230                    | 0.352                             | 0.455                           | 0.260                                   | 0.076                                   | 0.965                      | 1.328                        | 1.144                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                 |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n66_LAT | LTE Band 13_LAT | Front             | 23.80                              | 0.285                        | 22.80                                | 0.226                      | 0.378 | 0.054       | 0.063     | 0.008             | 0.011             | 0.659                      | 0.676                        | 0.679                        |
|         |                 | Back              | 23.80                              | 0.387                        | 22.80                                | 0.307                      | 0.432 | 0.352       | 0.455     | 0.067             | 0.076             | 1.092                      | 1.262                        | 1.271                        |
| n66_LAT | LTE Band 5_LAT  | Front             | 23.80                              | 0.235                        | 22.80                                | 0.187                      | 0.378 | 0.054       | 0.063     | 0.008             | 0.011             | 0.619                      | 0.636                        | 0.639                        |
|         |                 | Back              | 23.80                              | 0.331                        | 22.80                                | 0.263                      | 0.432 | 0.352       | 0.455     | 0.067             | 0.076             | 1.047                      | 1.217                        | 1.226                        |
| n66_LAT | LTE Band 12_LAT | Front             | 23.80                              | 0.286                        | 23.80                                | 0.286                      | 0.378 | 0.054       | 0.063     | 0.260             | 0.076             | 0.718                      | 0.987                        | 0.803                        |
|         |                 | Back              | 23.80                              | 0.394                        | 23.80                                | 0.394                      | 0.432 | 0.352       | 0.455     | 0.260             | 0.076             | 1.178                      | 1.541                        | 1.357                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3             | 4             | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|---------------|---------------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                   |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                              |                              |
| n71_LAT | LTE Band 2/25_LAT | Front             | 23.80                              | 0.656                        | 21.50                                | 0.386                      | 0.175 | 0.054         | 0.063         | 0.008             | 0.011             | 0.616                      | 0.633                        | 0.636                        |
|         |                   | Back              | 23.80                              | 0.669                        | 21.50                                | 0.394                      | 0.251 | 0.352         | 0.455         | 0.067             | 0.076             | 0.997                      | 1.167                        | 1.176                        |
| n71_LAT | LTE Band 66_LAT   | Front             | 23.80                              | 0.583                        | 21.50                                | 0.343                      | 0.175 | 0.054         | 0.063         | 0.260             | 0.076             | 0.573                      | 0.842                        | 0.658                        |
|         |                   | Back              | 23.80                              | 0.651                        | 21.50                                | 0.383                      | 0.251 | 0.352         | 0.455         | 0.260             | 0.076             | 0.987                      | 1.350                        | 1.166                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3             | 4             | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|---------------|---------------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                 |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                              |                              |
| n41_LAT | LTE Band 26_LAT | Front             | 23.80                              | 0.249                        | 22.80                                | 0.198                      | 0.404 | 0.054         | 0.063         | 0.008             | 0.011             | 0.656                      | 0.673                        | 0.676                        |
|         |                 | Back              | 23.80                              | 0.403                        | 22.80                                | 0.320                      | 0.492 | 0.352         | 0.455         | 0.067             | 0.076             | 1.164                      | 1.334                        | 1.343                        |

| Exposure position | UAT EN-DC 5G NR combination |                                |                                  |                   |                                  | Combination                        |
|-------------------|-----------------------------|--------------------------------|----------------------------------|-------------------|----------------------------------|------------------------------------|
|                   | LTE Single Carrier          |                                |                                  | NR Single Carrier |                                  |                                    |
|                   | LTE Anchors Band            | Standalone Maximum Power (dBm) | EN-DC Active Maximum Power (dBm) | Band              | EN-DC Active Maximum Power (dBm) |                                    |
| Head              | LTE Band 12_UAT             | 20.30                          | 17.50                            | N2_UAT            | 15.00                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_UAT              | 20.80                          | 17.80                            | N2_UAT            | 15.00                            |                                    |
|                   | LTE Band 66_UAT             | 13.00                          | 13.00                            | N5_UAT            | 20.00                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 25_UAT             | 13.50                          | 12.00                            | N5_UAT            | 20.00                            |                                    |
|                   | LTE Band 12_UAT             | 20.30                          | 17.50                            | N66_UAT           | 14.50                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 13_UAT             | 21.30                          | 18.30                            | N66_UAT           | 14.50                            |                                    |
|                   | LTE Band 5_UAT              | 20.80                          | 17.80                            | N66_UAT           | 14.50                            |                                    |
|                   | LTE Band 66_UAT             | 13.00                          | 13.00                            | N71_UAT           | 19.00                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 2/25_UAT           | 13.50                          | 12.00                            | N71_UAT           | 19.00                            |                                    |
|                   | LTE Band 26_UAT             | 20.80                          | 17.00                            | N41_TX0_UAT       | 16.50                            | DC_26A_n41A                        |
|                   | LTE Band 66_LAT             | 23.80                          | 23.80                            | N41_TX1_UAT       | 16.50                            | DC_25A_n41A/DC_2A_N41A/DC_66A_n41A |
|                   | LTE Band 2/25_LAT           | 23.80                          | 23.80                            | N41_TX1_UAT       | 16.50                            |                                    |
|                   | LTE Band 41_LAT             | 23.80                          | 23.80                            | N41_TX1_HPUE_UAT  | 16.50                            | DC_41A_n41A                        |
| Hotspot           | LTE Band 12_UAT             | 23.80                          | 18.00                            | N2_UAT            | 19.50                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_UAT              | 22.80                          | 17.50                            | N2_UAT            | 19.50                            |                                    |
|                   | LTE Band 2/25_UAT           | 16.50                          | 16.50                            | N5_UAT            | 20.00                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 66_UAT             | 22.00                          | 20.50                            | N5_UAT            | 20.00                            |                                    |
|                   | LTE Band 13_UAT             | 22.30                          | 18.00                            | N66_UAT           | 20.00                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 5_UAT              | 22.80                          | 17.50                            | N66_UAT           | 20.00                            |                                    |
|                   | LTE Band 12_UAT             | 23.80                          | 18.00                            | N66_UAT           | 20.00                            |                                    |
|                   | LTE Band 2/25_UAT           | 16.50                          | 16.50                            | N71_UAT           | 20.00                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 66_UAT             | 22.00                          | 20.50                            | N71_UAT           | 20.00                            |                                    |
|                   | LTE Band 26_UAT             | 22.30                          | 20.00                            | N41_TX0_UAT       | 19.50                            | DC_26A_n41A                        |
|                   | LTE Band 2/25_LAT           | 18.30                          | 17.00                            | N41_TX1_UAT       | 19.50                            | DC_25A_n41A/DC_2A_N41A/DC_66A_n41A |
|                   | LTE Band 66_LAT             | 20.80                          | 17.80                            | N41_TX1_UAT       | 19.50                            |                                    |
|                   | LTE Band 41_LAT             | 23.30                          | 19.00                            | N41_TX1_HPUE_UAT  | 19.50                            | DC_41A_n41A                        |
| Body-worn         | LTE Band 12_UAT             | 23.80                          | 23.80                            | N2_UAT            | 22.00                            | DC_12A_n2A /DC_5A_n2A              |
|                   | LTE Band 5_UAT              | 23.80                          | 22.80                            | N2_UAT            | 22.00                            |                                    |
|                   | LTE Band 2/25_UAT           | 22.00                          | 22.00                            | N5_UAT            | 23.80                            | DC_2A_n5A / DC_66A_n5A             |
|                   | LTE Band 66_UAT             | 22.00                          | 22.00                            | N5_UAT            | 23.80                            |                                    |
|                   | LTE Band 13_UAT             | 23.80                          | 22.80                            | N66_UAT           | 22.00                            | DC_13A_n66A/DC_5A_n66A/DC_12A_n66A |
|                   | LTE Band 5_UAT              | 23.80                          | 22.80                            | N66_UAT           | 22.00                            |                                    |
|                   | LTE Band 12_UAT             | 23.80                          | 23.80                            | N66_UAT           | 22.00                            |                                    |
|                   | LTE Band 2/25_UAT           | 22.00                          | 22.00                            | N71_UAT           | 23.80                            | DC_2A_n71A/DC_66A_n71A             |
|                   | LTE Band 66_UAT             | 22.00                          | 22.00                            | N71_UAT           | 23.80                            |                                    |
|                   | LTE Band 26_UAT             | 23.80                          | 22.80                            | N41_TX0_UAT       | 23.00                            | DC_26A_n41A                        |
|                   | LTE Band 2/25_LAT           | 23.80                          | 21.50                            | N41_TX1_UAT       | 23.00                            | DC_25A_n41A/DC_2A_N41A/DC_66A_n41A |
|                   | LTE Band 66_LAT             | 23.80                          | 21.50                            | N41_TX1_UAT       | 23.00                            |                                    |
|                   | LTE Band 41_LAT             | 23.80                          | 22.50                            | N41_TX1_HPUE_UAT  | 23.00                            | DC_41A_n41A                        |



## &lt;Head exposure condition&gt;

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n2_UAT  | LTE Band 12_UAT | Right Cheek       | 20.30                              | 0.519                        | 17.50                                | 0.272                                            | 0.541                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.900                      | 0.986                        | 1.016                        |
|         |                 | Right Tilted      | 20.30                              | 0.106                        | 17.50                                | 0.056                                            | 0.720                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.859                      | 0.983                        | 1.021                        |
|         |                 | Left Cheek        | 20.30                              | 0.605                        | 17.50                                | 0.318                                            | 0.365                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.992                      | 1.218                        | 1.164                        |
|         |                 | Left Tilted       | 20.30                              | 0.110                        | 17.50                                | 0.058                                            | 0.498                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.822                      | 0.950                        | 1.071                        |
| n2_UAT  | LTE Band 5_UAT  | Right Cheek       | 20.80                              | 0.413                        | 17.80                                | 0.207                                            | 0.541                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.835                      | 0.921                        | 0.951                        |
|         |                 | Right Tilted      | 20.80                              | 0.090                        | 17.80                                | 0.045                                            | 0.720                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.848                      | 0.972                        | 1.010                        |
|         |                 | Left Cheek        | 20.80                              | 0.604                        | 17.80                                | 0.303                                            | 0.365                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.977                      | 1.203                        | 1.149                        |
|         |                 | Left Tilted       | 20.80                              | 0.092                        | 17.80                                | 0.046                                            | 0.498                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.810                      | 0.938                        | 1.059                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n5_UAT  | LTE Band 66_UAT   | Right Cheek       | 13.00                              | 0.509                        | 13.00                                | 0.509                                            | 0.253                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.849                      | 0.935                        | 0.965                        |
|         |                   | Right Tilted      | 13.00                              | 0.736                        | 13.00                                | 0.736                                            | 0.092                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.911                      | 1.035                        | 1.073                        |
|         |                   | Left Cheek        | 13.00                              | 0.345                        | 13.00                                | 0.345                                            | 0.359                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 1.013                      | 1.239                        | 1.185                        |
|         |                   | Left Tilted       | 13.00                              | 0.465                        | 13.00                                | 0.465                                            | 0.037                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.768                      | 0.896                        | 1.017                        |
| n5_UAT  | LTE Band 2/25_UAT | Right Cheek       | 13.50                              | 0.687                        | 12.00                                | 0.486                                            | 0.253                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.826                      | 0.912                        | 0.942                        |
|         |                   | Right Tilted      | 13.50                              | 0.896                        | 12.00                                | 0.634                                            | 0.092                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.809                      | 0.933                        | 0.971                        |
|         |                   | Left Cheek        | 13.50                              | 0.533                        | 12.00                                | 0.377                                            | 0.359                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 1.045                      | 1.271                        | 1.217                        |
|         |                   | Left Tilted       | 13.50                              | 0.639                        | 12.00                                | 0.452                                            | 0.037                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.755                      | 0.883                        | 1.004                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1<br>EN-DC Active Estimated LTE<br>1g SAR (W/kg) | 2<br>NR<br>1g SAR (W/kg) | 3<br>2.4GHz WLAN<br>1g SAR (W/kg) | 4<br>5GHz WLAN<br>1g SAR (W/kg) | 5<br>Bluetooth Chain 0<br>1g SAR (W/kg) | 6<br>Bluetooth Chain 1<br>1g SAR (W/kg) | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------|------------------------------|------------------------------|
| n66_UAT | LTE Band 12_UAT | Right Cheek       | 20.30                              | 0.519                        | 17.50                                | 0.272                                            | 0.444                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.803                      | 0.889                        | 0.919                        |
|         |                 | Right Tilted      | 20.30                              | 0.106                        | 17.50                                | 0.056                                            | 0.657                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.796                      | 0.920                        | 0.958                        |
|         |                 | Left Cheek        | 20.30                              | 0.605                        | 17.50                                | 0.318                                            | 0.310                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.937                      | 1.163                        | 1.109                        |
|         |                 | Left Tilted       | 20.30                              | 0.110                        | 17.50                                | 0.058                                            | 0.335                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.659                      | 0.787                        | 0.908                        |
| n66_UAT | LTE Band 13_UAT | Right Cheek       | 21.30                              | 0.550                        | 18.30                                | 0.276                                            | 0.444                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.807                      | 0.893                        | 0.923                        |
|         |                 | Right Tilted      | 21.30                              | 0.113                        | 18.30                                | 0.057                                            | 0.657                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.797                      | 0.921                        | 0.959                        |
|         |                 | Left Cheek        | 21.30                              | 0.714                        | 18.30                                | 0.358                                            | 0.310                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.977                      | 1.203                        | 1.149                        |
|         |                 | Left Tilted       | 21.30                              | 0.111                        | 18.30                                | 0.056                                            | 0.335                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.657                      | 0.785                        | 0.906                        |
| n66_UAT | LTE Band 5_UAT  | Right Cheek       | 20.80                              | 0.413                        | 17.80                                | 0.207                                            | 0.444                    | 0.087                             | 0.140                           | 0.033                                   | 0.063                                   | 0.738                      | 0.824                        | 0.854                        |
|         |                 | Right Tilted      | 20.80                              | 0.090                        | 17.80                                | 0.045                                            | 0.657                    | 0.083                             | 0.186                           | 0.021                                   | 0.059                                   | 0.785                      | 0.909                        | 0.947                        |
|         |                 | Left Cheek        | 20.80                              | 0.604                        | 17.80                                | 0.303                                            | 0.310                    | 0.309                             | 0.259                           | 0.276                                   | 0.222                                   | 0.922                      | 1.148                        | 1.094                        |
|         |                 | Left Tilted       | 20.80                              | 0.092                        | 17.80                                | 0.046                                            | 0.335                    | 0.266                             | 0.323                           | 0.071                                   | 0.192                                   | 0.647                      | 0.775                        | 0.896                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n71_UAT | LTE Band 66_UAT   | Right Cheek       | 13.00                              | 0.509                        | 13.00                                | 0.509                                    | 0.216            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 0.812                      | 0.898                        | 0.928                        |
|         |                   | Right Tilted      | 13.00                              | 0.736                        | 13.00                                | 0.736                                    | 0.046            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 0.865                      | 0.989                        | 1.027                        |
|         |                   | Left Cheek        | 13.00                              | 0.345                        | 13.00                                | 0.345                                    | 0.280            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 0.934                      | 1.160                        | 1.106                        |
|         |                   | Left Tilted       | 13.00                              | 0.465                        | 13.00                                | 0.465                                    | 0.042            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.773                      | 0.901                        | 1.022                        |
| n71_UAT | LTE Band 2/25_UAT | Right Cheek       | 13.50                              | 0.687                        | 12.00                                | 0.486                                    | 0.216            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 0.789                      | 0.875                        | 0.905                        |
|         |                   | Right Tilted      | 13.50                              | 0.896                        | 12.00                                | 0.634                                    | 0.046            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 0.763                      | 0.887                        | 0.925                        |
|         |                   | Left Cheek        | 13.50                              | 0.533                        | 12.00                                | 0.377                                    | 0.280            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 0.966                      | 1.192                        | 1.138                        |
|         |                   | Left Tilted       | 13.50                              | 0.639                        | 12.00                                | 0.452                                    | 0.042            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.760                      | 0.888                        | 1.009                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n41_UAT | LTE Band 26_UAT | Right Cheek       | 20.80                              | 0.291                        | 17.00                                | 0.121                                    | 0.694            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 0.902                      | 0.988                        | 1.018                        |
|         |                 | Right Tilted      | 20.80                              | 0.085                        | 17.00                                | 0.035                                    | 0.750            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 0.868                      | 0.992                        | 1.030                        |
|         |                 | Left Cheek        | 20.80                              | 0.712                        | 17.00                                | 0.297                                    | 0.410            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 1.016                      | 1.242                        | 1.188                        |
|         |                 | Left Tilted       | 20.80                              | 0.104                        | 17.00                                | 0.043                                    | 0.518            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.827                      | 0.955                        | 1.076                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n41_UAT | LTE Band 66_LAT   | Right Cheek       | 23.8                               | 0.272                        | 23.80                                | 0.272                                    | 0.694            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 1.053                      | 1.139                        | 1.169                        |
|         |                   | Right Tilted      | 23.8                               | 0.141                        | 23.80                                | 0.141                                    | 0.750            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 0.974                      | 1.098                        | 1.136                        |
|         |                   | Left Cheek        | 23.8                               | 0.228                        | 23.80                                | 0.228                                    | 0.410            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 0.947                      | 1.173                        | 1.119                        |
|         |                   | Left Tilted       | 23.8                               | 0.099                        | 23.80                                | 0.099                                    | 0.518            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.883                      | 1.011                        | 1.132                        |
| n41_UAT | LTE Band 2/25_LAT | Right Cheek       | 23.8                               | 0.355                        | 23.80                                | 0.355                                    | 0.694            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 1.136                      | 1.222                        | 1.252                        |
|         |                   | Right Tilted      | 23.8                               | 0.184                        | 23.80                                | 0.184                                    | 0.750            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 1.017                      | 1.141                        | 1.179                        |
|         |                   | Left Cheek        | 23.8                               | 0.178                        | 23.80                                | 0.178                                    | 0.410            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 0.897                      | 1.123                        | 1.069                        |
|         |                   | Left Tilted       | 23.8                               | 0.137                        | 23.80                                | 0.137                                    | 0.518            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.921                      | 1.049                        | 1.170                        |

| NR Band | LTE Band              | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                       |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n41_UAT | LTE Band 41(HPUE)_LAT | Right Cheek       | 23.8                               | 0.155                        | 23.80                                | 0.155                                    | 0.694            | 0.087                     | 0.140                   | 0.033                           | 0.063                           | 0.936                      | 1.022                        | 1.052                        |
|         |                       | Right Tilted      | 23.8                               | 0.115                        | 23.80                                | 0.115                                    | 0.750            | 0.083                     | 0.186                   | 0.021                           | 0.059                           | 0.948                      | 1.072                        | 1.110                        |
|         |                       | Left Cheek        | 23.8                               | 0.260                        | 23.80                                | 0.260                                    | 0.410            | 0.309                     | 0.259                   | 0.276                           | 0.222                           | 0.979                      | 1.205                        | 1.151                        |
|         |                       | Left Tilted       | 23.8                               | 0.076                        | 23.80                                | 0.076                                    | 0.518            | 0.266                     | 0.323                   | 0.071                           | 0.192                           | 0.860                      | 0.988                        | 1.109                        |

**<Hotspot exposure condition>**

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|-------------------------|---------------------------------|---------------------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n2_UAT  | LTE Band 12_UAT   | Front             | 23.80                              | 0.621                        | 18.00                                | 0.163                                    | 0.357            | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.582                      | 0.571                        | 0.564                        |
|         |                   | Back              | 23.80                              | 0.641                        | 18.00                                | 0.169                                    | 0.403            | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.885                      | 1.111                        | 1.104                        |
|         |                   | Left side         | 23.80                              | 0.890                        | 18.00                                | 0.234                                    | 0.062            |                           |                         |                                 |                                 | 0.296                      | 0.296                        | 0.296                        |
|         |                   | Right side        | 23.80                              | 0.048                        | 18.00                                | 0.013                                    | 0.043            | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.175                      | 0.602                        | 0.608                        |
|         |                   | Top side          | 23.80                              | 0.012                        | 18.00                                | 0.003                                    | 0.650            | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.734                      | 1.030                        | 0.775                        |
|         |                   | Bottom side       | 23.80                              |                              | 18.00                                |                                          |                  |                           |                         |                                 |                                 | 0.000                      | 0.000                        | 0.000                        |
| n2_UAT  | LTE Band 5_UAT    | Front             | 22.80                              | 0.619                        | 17.50                                | 0.183                                    | 0.357            | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.601                      | 0.590                        | 0.583                        |
|         |                   | Back              | 22.80                              | 0.617                        | 17.50                                | 0.182                                    | 0.403            | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.899                      | 1.125                        | 1.118                        |
|         |                   | Left side         | 22.80                              | 0.882                        | 17.50                                | 0.260                                    | 0.062            |                           |                         |                                 |                                 | 0.322                      | 0.322                        | 0.322                        |
|         |                   | Right side        | 22.80                              | 0.020                        | 17.50                                | 0.006                                    | 0.043            | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.168                      | 0.595                        | 0.601                        |
|         |                   | Top side          | 22.80                              | 0.014                        | 17.50                                | 0.004                                    | 0.650            | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.735                      | 1.031                        | 0.776                        |
|         |                   | Bottom side       | 22.80                              |                              | 17.50                                |                                          |                  |                           |                         |                                 |                                 | 0.000                      | 0.000                        | 0.000                        |
| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                        | 2                | 3                         | 4                       | 5                               | 6                               | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE 1g SAR (W/kg) | NR 1g SAR (W/kg) | 2.4GHz WLAN 1g SAR (W/kg) | 5GHz WLAN 1g SAR (W/kg) | Bluetooth Chain 0 1g SAR (W/kg) | Bluetooth Chain 1 1g SAR (W/kg) |                            |                              |                              |
| n5_UAT  | LTE Band 2/25_UAT | Front             | 16.50                              | 0.388                        | 16.50                                | 0.388                                    | 0.134            | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.583                      | 0.572                        | 0.565                        |
|         |                   | Back              | 16.50                              | 0.466                        | 16.50                                | 0.466                                    | 0.175            | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.955                      | 1.181                        | 1.174                        |
|         |                   | Left side         | 16.50                              | 0.096                        | 16.50                                | 0.096                                    | 0.285            |                           |                         |                                 |                                 | 0.381                      | 0.381                        | 0.381                        |
|         |                   | Right side        | 16.50                              | 0.001                        | 16.50                                | 0.001                                    | 0.003            | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.124                      | 0.551                        | 0.557                        |
|         |                   | Top side          | 16.50                              | 0.653                        | 16.50                                | 0.653                                    | 0.003            | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.737                      | 1.033                        | 0.778                        |
|         |                   | Bottom side       | 16.50                              |                              | 16.50                                |                                          |                  |                           |                         |                                 |                                 | 0.000                      | 0.000                        | 0.000                        |
| n5_UAT  | LTE Band 66_UAT   | Front             | 22.00                              | 0.515                        | 20.50                                | 0.365                                    | 0.134            | 0.061                     | 0.002                   | 0.048                           | 0.041                           | 0.560                      | 0.549                        | 0.542                        |
|         |                   | Back              | 22.00                              | 0.555                        | 20.50                                | 0.393                                    | 0.175            | 0.314                     | 0.343                   | 0.197                           | 0.190                           | 0.882                      | 1.108                        | 1.101                        |
|         |                   | Left side         | 22.00                              | 0.163                        | 20.50                                | 0.115                                    | 0.285            |                           |                         |                                 |                                 | 0.401                      | 0.401                        | 0.401                        |
|         |                   | Right side        | 22.00                              | 0.001                        | 20.50                                | 0.001                                    | 0.003            | 0.120                     | 0.420                   | 0.127                           | 0.133                           | 0.123                      | 0.550                        | 0.556                        |
|         |                   | Top side          | 22.00                              | 0.918                        | 20.50                                | 0.650                                    | 0.003            | 0.081                     | 0.068                   | 0.309                           | 0.054                           | 0.733                      | 1.029                        | 0.774                        |
|         |                   | Bottom side       | 22.00                              |                              | 20.50                                |                                          |                  |                           |                         |                                 |                                 | 0.000                      | 0.000                        | 0.000                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                           | 2                   | 3                            | 4                          | 5                                  | 6                                  | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|---------------------------------------------|---------------------|------------------------------|----------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE<br>1g SAR (W/kg) | NR<br>1g SAR (W/kg) | 2.4GHz WLAN<br>1g SAR (W/kg) | 5GHz WLAN<br>1g SAR (W/kg) | Bluetooth Chain 0<br>1g SAR (W/kg) | Bluetooth Chain 1<br>1g SAR (W/kg) |                            |                              |                              |
| n66_UAT | LTE Band 13_UAT | Front             | 22.30                              | 0.472                        | 18.00                                | 0.175                                       | 0.413               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.650                      | 0.639                        | 0.632                        |
|         |                 | Back              | 22.30                              | 0.519                        | 18.00                                | 0.193                                       | 0.395               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.902                      | 1.128                        | 1.121                        |
|         |                 | Left side         | 22.30                              | 0.764                        | 18.00                                | 0.284                                       | 0.143               |                              |                            |                                    |                                    | 0.427                      | 0.427                        | 0.427                        |
|         |                 | Right side        | 22.30                              | 0.031                        | 18.00                                | 0.012                                       | 0.023               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.155                      | 0.582                        | 0.588                        |
|         |                 | Top side          | 22.30                              | 0.069                        | 18.00                                | 0.026                                       | 0.639               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.746                      | 1.042                        | 0.787                        |
|         |                 | Bottom side       | 22.30                              |                              | 18.00                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |
| n66_UAT | LTE Band 5_UAT  | Front             | 22.80                              | 0.619                        | 17.50                                | 0.183                                       | 0.413               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.657                      | 0.646                        | 0.639                        |
|         |                 | Back              | 22.80                              | 0.617                        | 17.50                                | 0.182                                       | 0.395               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.891                      | 1.117                        | 1.110                        |
|         |                 | Left side         | 22.80                              | 0.882                        | 17.50                                | 0.260                                       | 0.143               |                              |                            |                                    |                                    | 0.404                      | 0.404                        | 0.404                        |
|         |                 | Right side        | 22.80                              | 0.020                        | 17.50                                | 0.006                                       | 0.023               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.149                      | 0.576                        | 0.582                        |
|         |                 | Top side          | 22.80                              | 0.014                        | 17.50                                | 0.004                                       | 0.639               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.724                      | 1.020                        | 0.765                        |
|         |                 | Bottom side       | 22.80                              |                              | 17.50                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |
| n66_UAT | LTE Band 12_UAT | Front             | 23.80                              | 0.621                        | 18.00                                | 0.163                                       | 0.413               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.638                      | 0.627                        | 0.620                        |
|         |                 | Back              | 23.80                              | 0.641                        | 18.00                                | 0.169                                       | 0.395               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.878                      | 1.104                        | 1.097                        |
|         |                 | Left side         | 23.80                              | 0.890                        | 18.00                                | 0.234                                       | 0.143               |                              |                            |                                    |                                    | 0.377                      | 0.377                        | 0.377                        |
|         |                 | Right side        | 23.80                              | 0.048                        | 18.00                                | 0.013                                       | 0.023               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.156                      | 0.583                        | 0.589                        |
|         |                 | Top side          | 23.80                              | 0.012                        | 18.00                                | 0.003                                       | 0.639               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.723                      | 1.019                        | 0.764                        |
|         |                 | Bottom side       | 23.80                              |                              | 18.00                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                           | 2                   | 3                            | 4                          | 5                                  | 6                                  | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|---------------------------------------------|---------------------|------------------------------|----------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE<br>1g SAR (W/kg) | NR<br>1g SAR (W/kg) | 2.4GHz WLAN<br>1g SAR (W/kg) | 5GHz WLAN<br>1g SAR (W/kg) | Bluetooth Chain 0<br>1g SAR (W/kg) | Bluetooth Chain 1<br>1g SAR (W/kg) |                            |                              |                              |
| n71_UAT | LTE Band 2/25_UAT | Front             | 16.50                              | 0.388                        | 16.50                                | 0.388                                       | 0.149               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.598                      | 0.587                        | 0.580                        |
|         |                   | Back              | 16.50                              | 0.466                        | 16.50                                | 0.466                                       | 0.185               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.965                      | 1.191                        | 1.184                        |
|         |                   | Left side         | 16.50                              | 0.096                        | 16.50                                | 0.096                                       | 0.227               |                              |                            |                                    |                                    | 0.323                      | 0.323                        | 0.323                        |
|         |                   | Right side        | 16.50                              | 0.001                        | 16.50                                | 0.001                                       | 0.016               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.137                      | 0.564                        | 0.570                        |
|         |                   | Top side          | 16.50                              | 0.653                        | 16.50                                | 0.653                                       | 0.003               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.737                      | 1.033                        | 0.778                        |
|         |                   | Bottom side       | 16.50                              |                              | 16.50                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |
| n71_UAT | LTE Band 66_UAT   | Front             | 22.00                              | 0.515                        | 20.50                                | 0.365                                       | 0.149               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.575                      | 0.564                        | 0.557                        |
|         |                   | Back              | 22.00                              | 0.555                        | 20.50                                | 0.393                                       | 0.185               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.892                      | 1.118                        | 1.111                        |
|         |                   | Left side         | 22.00                              | 0.163                        | 20.50                                | 0.115                                       | 0.227               |                              |                            |                                    |                                    | 0.343                      | 0.343                        | 0.343                        |
|         |                   | Right side        | 22.00                              | 0.001                        | 20.50                                | 0.001                                       | 0.016               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.137                      | 0.564                        | 0.570                        |
|         |                   | Top side          | 22.00                              | 0.918                        | 20.50                                | 0.650                                       | 0.003               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.734                      | 1.030                        | 0.775                        |
|         |                   | Bottom side       | 22.00                              |                              | 20.50                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |

| NR Band     | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                                           | 2                   | 3                            | 4                          | 5                                  | 6                                  | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|---------------------------------------------|---------------------|------------------------------|----------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------|------------------------------|
|             |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE<br>1g SAR (W/kg) | NR<br>1g SAR (W/kg) | 2.4GHz WLAN<br>1g SAR (W/kg) | 5GHz WLAN<br>1g SAR (W/kg) | Bluetooth Chain 0<br>1g SAR (W/kg) | Bluetooth Chain 1<br>1g SAR (W/kg) |                            |                              |                              |
| n41 TX0_UAT | LTE Band 26_UAT | Front             | 22.30                              | 0.466                        | 20.00                                | 0.274                                       | 0.262               | 0.061                        | 0.002                      | 0.048                              | 0.041                              | 0.597                      | 0.586                        | 0.579                        |
|             |                 | Back              | 22.30                              | 0.501                        | 20.00                                | 0.295                                       | 0.340               | 0.314                        | 0.343                      | 0.197                              | 0.190                              | 0.949                      | 1.175                        | 1.168                        |
|             |                 | Left side         | 22.30                              | 0.838                        | 20.00                                | 0.493                                       | 0.042               |                              |                            |                                    |                                    | 0.535                      | 0.535                        | 0.535                        |
|             |                 | Right side        | 22.30                              | 0.020                        | 20.00                                | 0.012                                       | 0.024               | 0.120                        | 0.420                      | 0.127                              | 0.133                              | 0.156                      | 0.583                        | 0.589                        |
|             |                 | Top side          | 22.30                              | 0.009                        | 20.00                                | 0.005                                       | 0.718               | 0.081                        | 0.068                      | 0.309                              | 0.054                              | 0.804                      | 1.100                        | 0.845                        |
|             |                 | Bottom side       | 22.30                              |                              | 20.00                                |                                             |                     |                              |                            |                                    |                                    | 0.000                      | 0.000                        | 0.000                        |

| NR Band     | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|             |                   |                   |                                    |                              |                                      | EN-DC Active LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|             |                   |                   |                                    |                              |                                      | 1g SAR (W/kg)    |       |             |           |                   |                   |                            |                              |                              |
| n41 TX1_UAT | LTE Band 2/25_LAT | Front             | 18.30                              | 0.316                        | 17.00                                | 0.234            | 0.262 | 0.061       | 0.002     | 0.048             | 0.041             | 0.557                      | 0.546                        | 0.539                        |
|             |                   | Back              | 18.30                              | 0.470                        | 17.00                                | 0.348            | 0.340 | 0.314       | 0.343     | 0.197             | 0.190             | 1.003                      | 1.229                        | 1.222                        |
|             |                   | Left side         | 18.30                              | 0.054                        | 17.00                                | 0.040            | 0.042 |             |           |                   |                   | 0.082                      | 0.082                        | 0.082                        |
|             |                   | Right side        | 18.30                              | 0.079                        | 17.00                                | 0.059            | 0.024 | 0.120       | 0.420     | 0.127             | 0.133             | 0.202                      | 0.629                        | 0.635                        |
|             |                   | Top side          | 18.30                              |                              | 17.00                                |                  | 0.718 | 0.081       | 0.068     | 0.309             | 0.054             | 0.799                      | 1.095                        | 0.840                        |
|             |                   | Bottom side       | 18.30                              | 0.517                        | 17.00                                | 0.383            |       |             |           |                   |                   | 0.383                      | 0.383                        | 0.383                        |
| n41 TX1_UAT | LTE Band 66_LAT   | Front             | 20.80                              | 0.463                        | 17.80                                | 0.232            | 0.262 | 0.061       | 0.002     | 0.048             | 0.041             | 0.555                      | 0.544                        | 0.537                        |
|             |                   | Back              | 20.80                              | 0.711                        | 17.80                                | 0.356            | 0.340 | 0.314       | 0.343     | 0.197             | 0.190             | 1.011                      | 1.237                        | 1.230                        |
|             |                   | Left side         | 20.80                              | 0.171                        | 17.80                                | 0.086            | 0.042 |             |           |                   |                   | 0.128                      | 0.128                        | 0.128                        |
|             |                   | Right side        | 20.80                              | 0.098                        | 17.80                                | 0.049            | 0.024 | 0.120       | 0.420     | 0.127             | 0.133             | 0.193                      | 0.620                        | 0.626                        |
|             |                   | Top side          | 20.80                              |                              | 17.80                                |                  | 0.718 | 0.081       | 0.068     | 0.309             | 0.054             | 0.799                      | 1.095                        | 0.840                        |
|             |                   | Bottom side       | 20.80                              | 0.874                        | 17.80                                | 0.438            |       |             |           |                   |                   | 0.438                      | 0.438                        | 0.438                        |

| NR Band     | LTE Band             | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2             | 3             | 4             | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|----------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|---------------|---------------|---------------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|             |                      |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR            | 2.4GHz WLAN   | 5GHz WLAN     | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|             |                      |                   |                                    |                              |                                      | 1g SAR (W/kg)              | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                            |                              |                              |
| n41 TX1_UAT | LTE Band 41_HPUE_LAT | Front             | 23.30                              | 0.395                        | 19.00                                | 0.147                      | 0.262         | 0.061         | 0.002         | 0.048             | 0.041             | 0.470                      | 0.459                        | 0.452                        |
|             |                      | Back              | 23.30                              | 0.713                        | 19.00                                | 0.265                      | 0.340         | 0.314         | 0.343         | 0.197             | 0.190             | 0.919                      | 1.145                        | 1.138                        |
|             |                      | Left side         | 23.30                              | 0.120                        | 19.00                                | 0.045                      | 0.042         |               |               |                   |                   | 0.087                      | 0.087                        | 0.087                        |
|             |                      | Right side        | 23.30                              | 0.118                        | 19.00                                | 0.044                      | 0.024         | 0.120         | 0.420         | 0.127             | 0.133             | 0.188                      | 0.615                        | 0.621                        |
|             |                      | Top side          | 23.30                              |                              | 19.00                                |                            | 0.718         | 0.081         | 0.068         | 0.309             | 0.054             | 0.799                      | 1.095                        | 0.840                        |
|             |                      | Bottom side       | 23.30                              | 0.397                        | 19.00                                | 0.147                      |               |               |               |                   |                   | 0.147                      | 0.147                        | 0.147                        |

**<Body-worn exposure condition>**

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                 |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n2_UAT  | LTE Band 12_UAT | Front             | 23.80                              | 0.345                        | 23.80                                | 0.345                      | 0.325 | 0.054       | 0.063     | 0.008             | 0.011             | 0.724                      | 0.741                        | 0.744                        |
|         |                 | Back              | 23.80                              | 0.384                        | 23.80                                | 0.384                      | 0.330 | 0.352       | 0.455     | 0.067             | 0.076             | 1.066                      | 1.236                        | 1.245                        |
| n2_UAT  | LTE Band 5_UAT  | Front             | 23.80                              | 0.309                        | 22.80                                | 0.245                      | 0.325 | 0.054       | 0.063     | 0.008             | 0.011             | 0.624                      | 0.641                        | 0.644                        |
|         |                 | Back              | 23.80                              | 0.379                        | 22.80                                | 0.301                      | 0.330 | 0.352       | 0.455     | 0.067             | 0.076             | 0.983                      | 1.153                        | 1.162                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                   |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n5_UAT  | LTE Band 2/25_UAT | Front             | 22.00                              | 0.353                        | 22.00                                | 0.353                      | 0.199 | 0.054       | 0.063     | 0.008             | 0.011             | 0.606                      | 0.623                        | 0.626                        |
|         |                   | Back              | 22.00                              | 0.462                        | 22.00                                | 0.462                      | 0.247 | 0.352       | 0.455     | 0.067             | 0.076             | 1.061                      | 1.231                        | 1.240                        |
| n5_UAT  | LTE Band 66_UAT   | Front             | 22.00                              | 0.219                        | 22.00                                | 0.219                      | 0.199 | 0.054       | 0.063     | 0.008             | 0.011             | 0.472                      | 0.489                        | 0.492                        |
|         |                   | Back              | 22.00                              | 0.313                        | 22.00                                | 0.313                      | 0.247 | 0.352       | 0.455     | 0.067             | 0.076             | 0.912                      | 1.082                        | 1.091                        |

| NR Band | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                 |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n66_UAT | LTE Band 13_UAT | Front             | 23.80                              | 0.353                        | 22.80                                | 0.280                      | 0.301 | 0.054       | 0.063     | 0.008             | 0.011             | 0.635                      | 0.652                        | 0.655                        |
|         |                 | Back              | 23.80                              | 0.408                        | 22.80                                | 0.324                      | 0.381 | 0.352       | 0.455     | 0.067             | 0.076             | 1.057                      | 1.227                        | 1.236                        |
| n66_UAT | LTE Band 5_UAT  | Front             | 23.80                              | 0.309                        | 22.80                                | 0.245                      | 0.301 | 0.054       | 0.063     | 0.008             | 0.011             | 0.600                      | 0.617                        | 0.620                        |
|         |                 | Back              | 23.80                              | 0.379                        | 22.80                                | 0.301                      | 0.381 | 0.352       | 0.455     | 0.067             | 0.076             | 1.034                      | 1.204                        | 1.213                        |
| n66_UAT | LTE Band 12_UAT | Front             | 23.80                              | 0.345                        | 23.80                                | 0.345                      | 0.301 | 0.054       | 0.063     | 0.008             | 0.011             | 0.700                      | 0.717                        | 0.720                        |
|         |                 | Back              | 23.80                              | 0.384                        | 23.80                                | 0.384                      | 0.381 | 0.352       | 0.455     | 0.067             | 0.076             | 1.117                      | 1.287                        | 1.296                        |

| NR Band | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|---------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|         |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|         |                   |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n71_UAT | LTE Band 2/25_UAT | Front             | 22.00                              | 0.353                        | 22.00                                | 0.353                      | 0.144 | 0.054       | 0.063     | 0.008             | 0.011             | 0.551                      | 0.568                        | 0.571                        |
|         |                   | Back              | 22.00                              | 0.462                        | 22.00                                | 0.462                      | 0.258 | 0.352       | 0.455     | 0.067             | 0.076             | 1.072                      | 1.242                        | 1.251                        |
| n71_UAT | LTE Band 66_UAT   | Front             | 22.00                              | 0.219                        | 22.00                                | 0.219                      | 0.144 | 0.054       | 0.063     | 0.008             | 0.011             | 0.417                      | 0.434                        | 0.437                        |
|         |                   | Back              | 22.00                              | 0.313                        | 22.00                                | 0.313                      | 0.258 | 0.352       | 0.455     | 0.067             | 0.076             | 0.923                      | 1.093                        | 1.102                        |

| NR Band     | LTE Band        | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|-----------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|             |                 |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|             |                 |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n41 TX0_UAT | LTE Band 26_UAT | Front             | 23.80                              | 0.340                        | 22.80                                | 0.270                      | 0.289 | 0.054       | 0.063     | 0.008             | 0.011             | 0.613                      | 0.630                        | 0.633                        |
|             |                 | Back              | 23.80                              | 0.424                        | 22.80                                | 0.337                      | 0.359 | 0.352       | 0.455     | 0.067             | 0.076             | 1.047                      | 1.217                        | 1.226                        |

| NR Band     | LTE Band          | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|-------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|             |                   |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|             |                   |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n41 TX1_UAT | LTE Band 2/25_LAT | Front             | 23.80                              | 0.656                        | 21.50                                | 0.386                      | 0.289 | 0.054       | 0.063     | 0.008             | 0.011             | 0.729                      | 0.746                        | 0.749                        |
|             |                   | Back              | 23.80                              | 0.669                        | 21.50                                | 0.394                      | 0.359 | 0.352       | 0.455     | 0.067             | 0.076             | 1.104                      | 1.274                        | 1.283                        |
| n41 TX1_UAT | LTE Band 66_LAT   | Front             | 23.80                              | 0.583                        | 21.50                                | 0.343                      | 0.289 | 0.054       | 0.063     | 0.008             | 0.011             | 0.686                      | 0.703                        | 0.706                        |
|             |                   | Back              | 23.80                              | 0.651                        | 21.50                                | 0.383                      | 0.359 | 0.352       | 0.455     | 0.067             | 0.076             | 1.094                      | 1.264                        | 1.273                        |

| NR Band     | LTE Band             | Exposure Position | LTE Standalone Maximum Power (dBm) | LTE Standalone 1g SAR (W/kg) | EN-DC Active LTE Maximum Power (dBm) | 1                          | 2     | 3           | 4         | 5                 | 6                 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4+5 Summed 1g SAR (W/kg) | 1+2+4+6 Summed 1g SAR (W/kg) |
|-------------|----------------------|-------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------|-------|-------------|-----------|-------------------|-------------------|----------------------------|------------------------------|------------------------------|
|             |                      |                   |                                    |                              |                                      | EN-DC Active Estimated LTE | NR    | 2.4GHz WLAN | 5GHz WLAN | Bluetooth Chain 0 | Bluetooth Chain 1 |                            |                              |                              |
|             |                      |                   |                                    |                              |                                      | 1g SAR (W/kg)              |       |             |           |                   |                   |                            |                              |                              |
| n41 TX1_UAT | LTE Band 41_HPUE_LAT | Front             | 23.80                              | 0.134                        | 22.50                                | 0.099                      | 0.289 | 0.054       | 0.063     | 0.008             | 0.011             | 0.442                      | 0.459                        | 0.462                        |
|             |                      | Back              | 23.80                              | 0.505                        | 22.50                                | 0.374                      | 0.359 | 0.352       | 0.455     | 0.067             | 0.076             | 1.085                      | 1.255                        | 1.264                        |

## **19. Supplemental tuner tests results**

### **General Note:**

1. This device implements aperture tuner (16 status) + impedance tuner (144 status) antenna tuning techniques in the WCDMA B5, CDMA BC0/10, LTE 5/12/13/17/26/71, 5G NR /n5/n71.
2. This device implements impedance tuner (144 status) antenna tuning techniques in the WCDMA B2/4, CDMA BC1, LTE 2/4/7/25/30/41/48/66, 5G NR n2/n41/n66.
3. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
4. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
5. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
6. The device supports LTE B5/B26, 2/B25, B4/B66, B12/17, B38/B41. Since the supported frequency span for LTE B5/B2/B4/B17/B38 falls completely within the supported frequency span for LTE B26/B25/B66/B12/B41, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR was only assessed for LTE B26/B25/B66/B12/B41. The single point SAR time-sweep measurements were treated independently for each supported ACL frequency band. For the LTE B5/B2/B4/B17/B38 single point SAR measurement selected the highest measured SAR configuration and exposure condition of LTE B26/B25/B66/B12/B41.
7. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
8. According to TCBC 201904 workshop, if any single point SAR measurement result is  $> 1.2 \text{ W/kg}$  for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
9. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).



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| RF exposure position |         |                |               |                        | Aperture 00                        |                         |       |       |       | Aperture 01                        |       |       |       |       | Aperture 02                        |       |       |       |       | Aperture 03                        |       |       |       |       |       |       |
|----------------------|---------|----------------|---------------|------------------------|------------------------------------|-------------------------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|-------|-------|
|                      |         |                |               |                        | Average Value of Time Sweep (W/kg) |                         |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |
| WWAN<br>UAT<br>Head  | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-8)   | 0     | 36    | 72    | 108                                | 144   | 0     | 36    | 72    | 108                                | 144   | 0     | 36    | 72    | 108                                | 144   | 0     | 36    | 72    | 108   | 144   |
|                      | UMTS B5 | RMC12.2Kbps    | 4233          | Left Cheek             | 0.521                              | 0.738                   | 0.212 | 0.307 | 0.546 | 0.212                              | 0.403 | 0.422 | 0.06  | 0.107 | 0.05                               | 0.317 | 0.203 | 0.488 | 0.079 | 0.536                              | 0.536 | 0.412 | 0.603 | 0.688 | 0.393 | 0.069 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-9)   | 1     | 37    | 73    | 109                                | 0     | 1     | 37    | 73    | 109                                | 0     | 1     | 37    | 73    | 109                                | 0     | 1     | 37    | 73    | 109   | 0     |
|                      | BC0     | RC3+SO55       | 777           | Left Cheek             | 0.487                              | 0.673                   | 0.585 | 0.519 | 0.042 | 0.281                              | 0.585 | 0.09  | 0.138 | 0.461 | 0.547                              | 0.595 | 0.138 | 0.49  | 0.138 | 0.461                              | 0.214 | 0.281 | 0.233 | 0.642 | 0.404 | 0.385 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-9)   | 2     | 38    | 74    | 110                                | 1     | 2     | 38    | 74    | 110                                | 1     | 2     | 38    | 74    | 110                                | 1     | 2     | 38    | 74    | 110   | 1     |
|                      | BC10    | RC3+SO55       | 580           | Left Cheek             | 0.515                              | 0.745                   | 0.581 | 0.381 | 0.467 | 0.333                              | 0.229 | 0.438 | 0.524 | 0.295 | 0.4                                | 0.41  | 0.714 | 0.238 | 0.448 | 0.657                              | 0.391 | 0.324 | 0.343 | 0.495 | 0.686 | 0.638 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 3-10)  | 3     | 39    | 75    | 111                                | 2     | 3     | 39    | 75    | 111                                | 2     | 3     | 39    | 75    | 111                                | 2     | 3     | 39    | 75    | 111   | 2     |
|                      | LTE B12 | 10M_QPSK_25_12 | 23095         | Left Cheek             | 0.47                               | 0.673                   | 0.052 | 0.214 | 0.242 | 0.347                              | 0.223 | 0.233 | 0.376 | 0.471 | 0.29                               | 0.3   | 0.671 | 0.195 | 0.5   | 0.414                              | 0.042 | 0.071 | 0.338 | 0.5   | 0.128 | 0.633 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 9-10)  | 4     | 40    | 76    | 112                                | 3     | 4     | 40    | 76    | 112                                | 3     | 4     | 40    | 76    | 112                                | 3     | 4     | 40    | 76    | 112   | 3     |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230         | Left Cheek             | 0.554                              | 0.763                   | 0.209 | 0.056 | 0.085 | 0.485                              | 0.209 | 0.323 | 0.351 | 0.075 | 0.637                              | 0.723 | 0.647 | 0.38  | 0.228 | 0.351                              | 0.656 | 0.218 | 0.628 | 0.399 | 0.723 | 0.485 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-47)  | 5     | 41    | 77    | 113                                | 4     | 5     | 41    | 77    | 113                                | 4     | 5     | 41    | 77    | 113                                | 4     | 5     | 41    | 77    | 113   | 4     |
|                      | LTE B26 | 15M_QPSK_36_20 | 26965         | Left Cheek             | 0.534                              | 0.768                   | 0.699 | 0.69  | 0.337 | 0.176                              | 0.642 | 0.556 | 0.614 | 0.366 | 0.509                              | 0.261 | 0.461 | 0.718 | 0.68  | 0.223                              | 0.147 | 0.766 | 0.547 | 0.68  | 0.652 | 0.671 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 3-11)  | 6     | 42    | 78    | 114                                | 5     | 6     | 42    | 78    | 114                                | 5     | 6     | 42    | 78    | 114                                | 5     | 6     | 42    | 78    | 114   | 5     |
|                      | LTE B71 | 10M_QPSK_50_24 | 133322        | Left Cheek             | 0.505                              | 0.693                   | 0.148 | 0.196 | 0.529 | 0.262                              | 0.329 | 0.196 | 0.348 | 0.624 | 0.139                              | 0.215 | 0.205 | 0.548 | 0.091 | 0.32                               | 0.32  | 0.386 | 0.091 | 0.643 | 0.186 | 0.548 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-38)  | 7     | 43    | 79    | 115                                | 6     | 7     | 43    | 79    | 115                                | 6     | 7     | 43    | 79    | 115                                | 6     | 7     | 43    | 79    | 115   | 6     |
|                      | n5      | 20M_QPSK_1_1   | 167800        | Left Cheek             | 0.057                              | 0.062                   | 0.022 | 0.031 | 0.05  | 0.003                              | 0.022 | 0.06  | 0.022 | 0.05  | 0.031                              | 0.031 | 0.041 | 0.003 | 0.06  | 0.003                              | 0.06  | 0.06  | 0.003 | 0.031 | 0.003 | 0.003 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 3-121) | 8     | 44    | 80    | 116                                | 7     | 8     | 44    | 80    | 116                                | 7     | 8     | 44    | 80    | 116                                | 7     | 8     | 44    | 80    | 116   | 7     |
|                      | n71     | 20M_QPSK_50_0  | 136100        | Left Cheek             | 0.058                              | 0.063                   | 0.004 | 0.013 | 0.013 | 0.032                              | 0.004 | 0.051 | 0.004 | 0.013 | 0.013                              | 0.032 | 0.004 | 0.051 | 0.013 | 0.032                              | 0.061 | 0.013 | 0.061 | 0.013 | 0.004 | 0.032 |
| WWAN<br>LAT<br>Head  | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-116) | 9     | 45    | 81    | 117                                | 8     | 9     | 45    | 81    | 117                                | 8     | 9     | 45    | 81    | 117                                | 8     | 9     | 45    | 81    | 117   | 8     |
|                      | UMTS B5 | RMC12.2Kbps    | 4233          | Left Cheek             | 0.154                              | 0.173                   | 0.076 | 0.104 | 0.047 | 0.019                              | 0.047 | 0.171 | 0.123 | 0.009 | 0.066                              | 0.152 | 0.057 | 0.161 | 0.142 | 0.038                              | 0.142 | 0.095 | 0.152 | 0.142 | 0.076 | 0.114 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-116) | 10    | 46    | 82    | 118                                | 9     | 10    | 46    | 82    | 118                                | 9     | 10    | 46    | 82    | 118                                | 9     | 10    | 46    | 82    | 118   | 9     |
|                      | BC0     | RC3+SO55       | 1013          | Left Cheek             | 0.142                              | 0.163                   | 0.151 | 0.104 | 0.123 | 0.066                              | 0.142 | 0.028 | 0.113 | 0.123 | 0.018                              | 0.009 | 0.104 | 0.142 | 0.056 | 0.037                              | 0.113 | 0.018 | 0.018 | 0.132 | 0.104 | 0.094 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-116) | 11    | 47    | 83    | 119                                | 10    | 11    | 47    | 83    | 119                                | 10    | 11    | 47    | 83    | 119                                | 10    | 11    | 47    | 83    | 119   | 10    |
|                      | BC10    | RC3+SO55       | 684           | Left Cheek             | 0.138                              | 0.169                   | 0.034 | 0.11  | 0.024 | 0.062                              | 0.091 | 0.062 | 0.062 | 0.062 | 0.1                                | 0.11  | 0.129 | 0.148 | 0.034 | 0.015                              | 0.119 | 0.129 | 0.157 | 0.024 | 0.157 | 0.148 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 0-107) | 12    | 48    | 84    | 120                                | 11    | 12    | 48    | 84    | 120                                | 11    | 12    | 48    | 84    | 120                                | 11    | 12    | 48    | 84    | 120   | 11    |
|                      | LTE B12 | 10M_QPSK_1_0   | 23095         | Left Cheek             | 0.169                              | 0.185                   | 0.135 | 0.107 | 0.116 | 0.107                              | 0.145 | 0.078 | 0.078 | 0.031 | 0.031                              | 0.021 | 0.069 | 0.183 | 0.031 | 0.069                              | 0.135 | 0.135 | 0.164 | 0.183 | 0.05  | 0.05  |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 3-142) | 13    | 49    | 85    | 121                                | 12    | 13    | 49    | 85    | 121                                | 12    | 13    | 49    | 85    | 121                                | 12    | 13    | 49    | 85    | 121   | 12    |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230         | Left Cheek             | 0.121                              | 0.152                   | 0.14  | 0.045 | 0.055 | 0.112                              | 0.083 | 0.045 | 0.083 | 0.093 | 0.045                              | 0.055 | 0.026 | 0.017 | 0.036 | 0.007                              | 0.112 | 0.074 | 0.055 | 0.055 | 0.007 | 0.102 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-35)  | 14    | 50    | 86    | 122                                | 13    | 14    | 50    | 86    | 122                                | 13    | 14    | 50    | 86    | 122                                | 13    | 14    | 50    | 86    | 122   | 13    |
|                      | LTE B26 | 15M_QPSK_1_0   | 26915         | Left Cheek             | 0.163                              | 0.178                   | 0.176 | 0.081 | 0.128 | 0.157                              | 0.024 | 0.128 | 0.052 | 0.09  | 0.062                              | 0.071 | 0.024 | 0.024 | 0.052 | 0.014                              | 0.062 | 0.052 | 0.024 | 0.1   | 0.119 | 0.081 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 4-134) | 15    | 51    | 87    | 123                                | 14    | 15    | 51    | 87    | 123                                | 14    | 15    | 51    | 87    | 123                                | 14    | 15    | 51    | 87    | 123   | 14    |
|                      | LTE B71 | 10M_QPSK_1_0   | 133322        | Left Cheek             | 0.111                              | 0.132                   | 0.092 | 0.092 | 0.035 | 0.054                              | 0.12  | 0.092 | 0.12  | 0.016 | 0.073                              | 0.025 | 0.12  | 0.13  | 0.035 | 0.063                              | 0.073 | 0.082 | 0.016 | 0.006 | 0.006 | 0.13  |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 2-35)  | 16    | 52    | 88    | 124                                | 15    | 16    | 52    | 88    | 124                                | 15    | 16    | 52    | 88    | 124                                | 15    | 16    | 52    | 88    | 124   | 15    |
|                      | n5      | 20M_QPSK_50_1  | 166800        | Left Cheek             | 0.092                              | 0.131                   | 0.081 | 0.024 | 0.024 | 0.005                              | 0.081 | 0.072 | 0.062 | 0.005 | 0.129                              | 0.081 | 0.024 | 0.11  | 0.081 | 0.053                              | 0.053 | 0.034 | 0.072 | 0.005 | 0.005 | 0.053 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 4-88)  | 17    | 53    | 89    | 125                                | 16    | 17    | 53    | 89    | 125                                | 16    | 17    | 53    | 89    | 125                                | 16    | 17    | 53    | 89    | 125   | 16    |
|                      | n71     | 20M_QPSK_1_1   | 134600        | Left Cheek             | 0.081                              | 0.085                   | 0.045 | 0.035 | 0.054 | 0.035                              | 0.064 | 0.073 | 0.045 | 0.007 | 0.054                              | 0.007 | 0.054 | 0.064 | 0.064 | 0.007                              | 0.016 | 0.073 | 0.035 | 0.064 | 0.016 | 0.016 |
| WWAN<br>UAT<br>Body  | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-9)   | 18    | 54    | 90    | 126                                | 17    | 18    | 54    | 90    | 126                                | 17    | 18    | 54    | 90    | 126                                | 17    | 18    | 54    | 90    | 126   | 17    |
|                      | UMTS B5 | RMC12.2Kbps    | 4182          | Left Side              | 0.699                              | 0.986                   | 0.26  | 0.498 | 0.87  | 0.432                              | 0.298 | 0.26  | 0.898 | 0.136 | 0.527                              | 0.613 | 0.946 | 0.955 | 0.222 | 0.327                              | 0.936 | 0.927 | 0.67  | 0.298 | 0.422 | 0.222 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-9)   | 19    | 55    | 91    | 127                                | 18    | 19    | 55    | 91    | 127                                | 18    | 19    | 55    | 91    | 127                                | 18    | 19    | 55    | 91    | 127   | 18    |
|                      | BC0     | RTAP 153.6Kbps | 777           | Left Side              | 0.543                              | 0.758                   | 0.261 | 0.604 | 0.651 | 0.451                              | 0.508 | 0.746 | 0.727 | 0.746 | 0.108                              | 0.223 | 0.613 | 0.299 | 0.232 | 0.651                              | 0.623 | 0.661 | 0.175 | 0.642 | 0.356 | 0.556 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 1-9)   | 20    | 56    | 92    | 128                                | 19    | 20    | 56    | 92    | 128                                | 19    | 20    | 56    | 92    | 128                                | 19    | 20    | 56    | 92    | 128   | 19    |
|                      | BC10    | RTAP 153.6Kbps | 476           | Left Side              | 0.546                              | 0.762                   | 0.512 | 0.503 | 0.455 | 0.35                               | 0.189 | 0.217 | 0.074 | 0.455 | 0.389                              | 0.741 | 0.35  | 0.16  | 0.37  | 0.274                              | 0.76  | 0.37  | 0.274 | 0.046 | 0.36  | 0.093 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 3-10)  | 21    | 57    | 93    | 129                                | 20    | 21    | 57    | 93    | 129                                | 20    | 21    | 57    | 93    | 129                                | 20    | 21    | 57    | 93    | 129   | 20    |
|                      | LTE B12 | 10M_QPSK_1_25  | 23095         | Left Side              | 0.737                              | 0.982                   | 0.44  | 0.068 | 0.716 | 0.354                              | 0.135 | 0.325 | 0.573 | 0.306 | 0.459                              | 0.621 | 0.24  | 0.402 | 0.04  | 0.049                              | 0.44  | 0.649 | 0.545 | 0.421 | 0.497 | 0.735 |
|                      | Band    | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 9-10)  | 22    | 58    | 94    | 130                                | 21    | 22    | 58    | 94    | 130                                | 21    | 22    | 58    | 94    | 130                                | 21    | 22    | 58    | 94    | 130   | 21    |
|                      | LTE B13 | 10M_QPSK_25_12 | 23230         | Left Side              | 0.582                              | 0.801                   | 0.656 | 0.17  | 0.656 | 0.637                              | 0.256 | 0.723 | 0.666 | 0.589 | 0.609                              | 0.294 | 0.085 | 0.523 | 0.361 | 0.18                               | 0.047 | 0.313 | 0.056 | 0.485 | 0.428 | 0.342 |
| Band                 | Mode    | Channel        | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-47)             | 23                      | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22    |       |



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|                     |         |                |         |               |                        |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|---------|----------------|---------|---------------|------------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     | LTE B26 | 15M_QPSK_36_20 | 26915   | Left Side     | 0.655                  | 0.911                   | 0.366 | 0.757 | 0.652 | 0.061 | 0.261 | 0.29  | 0.442 | 0.471 | 0.795 | 0.185 | 0.804 | 0.766 | 0.328 | 0.442 | 0.233 | 0.766 | 0.319 | 0.623 | 0.89  | 0.557 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 3-11)  | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    |
|                     | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Side     | 0.633                  | 0.833                   | 0.564 | 0.202 | 0.136 | 0.536 | 0.298 | 0.421 | 0.793 | 0.355 | 0.345 | 0.745 | 0.641 | 0.174 | 0.412 | 0.117 | 0.383 | 0.421 | 0.612 | 0.364 | 0.507 | 0.298 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 0-135) | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Left Side     | 0.11                   | 0.128                   | 0.069 | 0.021 | 0.012 | 0.088 | 0.04  | 0.05  | 0.078 | 0.088 | 0.116 | 0.116 | 0.078 | 0.069 | 0.05  | 0.021 | 0.059 | 0.126 | 0.04  | 0.069 | 0.031 | 0.126 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 2-96)  | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Left Side     | 0.086                  | 0.102                   | 0.033 | 0.033 | 0.081 | 0.014 | 0.071 | 0.081 | 0.09  | 0.071 | 0.062 | 0.052 | 0.043 | 0.071 | 0.005 | 0.033 | 0.052 | 0.081 | 0.071 | 0.043 | 0.081 | 0.09  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-116) | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    |
|                     | UMTS B5 | RMC12.2Kbps    | 4132    | Back          | 0.432                  | 0.463                   | 0.309 | 0.318 | 0.08  | 0.404 | 0.432 | 0.175 | 0.318 | 0.128 | 0.451 | 0.328 | 0.128 | 0.051 | 0.28  | 0.032 | 0.299 | 0.442 | 0.404 | 0.194 | 0.204 | 0.299 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-116) | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    |
| WWAN<br>LAT<br>Body | BC0     | RTAP 153.6Kbps | 1013    | Back          | 0.416                  | 0.472                   | 0.175 | 0.26  | 0.08  | 0.127 | 0.222 | 0.299 | 0.146 | 0.07  | 0.184 | 0.041 | 0.032 | 0.403 | 0.241 | 0.289 | 0.365 | 0.194 | 0.441 | 0.308 | 0.327 | 0.28  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-116) | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    |
|                     | BC10    | RTAP 153.6Kbps | 684     | Back          | 0.412                  | 0.469                   | 0.219 | 0.229 | 0.238 | 0.124 | 0.296 | 0.067 | 0.305 | 0.086 | 0.238 | 0.105 | 0.238 | 0.038 | 0.219 | 0.248 | 0.41  | 0.381 | 0.381 | 0.229 | 0.115 | 0.238 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 0-107) | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    |
|                     | LTE B12 | 10M_QPSK_1_25  | 23095   | Back          | 0.462                  | 0.511                   | 0.385 | 0.299 | 0.28  | 0.347 | 0.166 | 0.319 | 0.233 | 0.109 | 0.49  | 0.452 | 0.052 | 0.376 | 0.204 | 0.147 | 0.166 | 0.204 | 0.347 | 0.119 | 0.166 | 0.176 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 3-142) | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    |
|                     | LTE B13 | 10M_QPSK_25_12 | 23230   | Back          | 0.324                  | 0.376                   | 0.374 | 0.088 | 0.25  | 0.25  | 0.364 | 0.126 | 0.136 | 0.174 | 0.107 | 0.288 | 0.317 | 0.25  | 0.336 | 0.241 | 0.241 | 0.184 | 0.336 | 0.288 | 0.184 | 0.022 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-35)  | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    |
|                     | LTE B26 | 15M_QPSK_1_0   | 26765   | Back          | 0.442                  | 0.483                   | 0.214 | 0.471 | 0.11  | 0.129 | 0.129 | 0.376 | 0.481 | 0.033 | 0.31  | 0.291 | 0.31  | 0.271 | 0.462 | 0.367 | 0.291 | 0.138 | 0.386 | 0.262 | 0.052 | 0.138 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 4-134) | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    |
|                     | LTE B71 | 10M_QPSK_50_24 | 133322  | Back          | 0.385                  | 0.446                   | 0.12  | 0.187 | 0.425 | 0.082 | 0.187 | 0.177 | 0.206 | 0.187 | 0.273 | 0.311 | 0.406 | 0.034 | 0.425 | 0.073 | 0.13  | 0.025 | 0.311 | 0.301 | 0.254 | 0.434 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 1-68)  | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Back          | 0.068                  | 0.072                   | 0.032 | 0.032 | 0.051 | 0.07  | 0.051 | 0.051 | 0.07  | 0.022 | 0.032 | 0.051 | 0.051 | 0.003 | 0.032 | 0.022 | 0.07  | 0.032 | 0.032 | 0.06  | 0.032 | 0.06  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 4-105) | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Back          | 0.054                  | 0.061                   | 0.011 | 0.059 | 0.021 | 0.03  | 0.049 | 0.002 | 0.03  | 0.021 | 0.04  | 0.049 | 0.011 | 0.049 | 0.04  | 0.011 | 0.002 | 0.059 | 0.011 | 0.059 | 0.03  | 0.03  |



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| RF exposure position |         |                |         |               | Aperture 04                        |       |       |       |       | Aperture 05                        |       |       |       |       | Aperture 06                        |       |       |       |       | Aperture 07                        |       |       |       |       |       |
|----------------------|---------|----------------|---------|---------------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|-------|
|                      |         |                |         |               | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       |       |
| WWAN<br>UAT<br>Head  | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144   |
|                      | UMTS B5 | RMC12.2Kbps    | 4233    | Left Cheek    | 0.521                              | 0.069 | 0.688 | 0.488 | 0.117 | 0.603                              | 0.488 | 0.346 | 0.622 | 0.269 | 0.041                              | 0.736 | 0.726 | 0.126 | 0.45  | 0.25                               | 0.107 | 0.469 | 0.679 | 0.231 | 0.498 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0     |
|                      | BC0     | RC3+SO55       | 777     | Left Cheek    | 0.487                              | 0.585 | 0.633 | 0.157 | 0.442 | 0.452                              | 0.071 | 0.157 | 0.042 | 0.442 | 0.281                              | 0.414 | 0.157 | 0.185 | 0.595 | 0.271                              | 0.671 | 0.042 | 0.585 | 0.3   | 0.147 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1     |
|                      | BC10    | RC3+SO55       | 580     | Left Cheek    | 0.515                              | 0.543 | 0.429 | 0.562 | 0.172 | 0.562                              | 0.143 | 0.086 | 0.505 | 0.514 | 0.533                              | 0.143 | 0.048 | 0.714 | 0.333 | 0.505                              | 0.076 | 0.657 | 0.705 | 0.61  | 0.343 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2     |
|                      | LTE B12 | 10M_QPSK_25_12 | 23095   | Left Cheek    | 0.47                               | 0.081 | 0.376 | 0.5   | 0.395 | 0.223                              | 0.614 | 0.642 | 0.242 | 0.671 | 0.147                              | 0.119 | 0.233 | 0.328 | 0.414 | 0.385                              | 0.49  | 0.138 | 0.338 | 0.376 | 0.052 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3     |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230   | Left Cheek    | 0.554                              | 0.047 | 0.285 | 0.542 | 0.294 | 0.161                              | 0.209 | 0.428 | 0.266 | 0.523 | 0.485                              | 0.256 | 0.38  | 0.409 | 0.399 | 0.523                              | 0.437 | 0.523 | 0.218 | 0.132 | 0.542 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4     |
|                      | LTE B26 | 15M_QPSK_36_20 | 26965   | Left Cheek    | 0.534                              | 0.261 | 0.452 | 0.528 | 0.166 | 0.68                               | 0.414 | 0.442 | 0.147 | 0.423 | 0.604                              | 0.261 | 0.328 | 0.261 | 0.633 | 0.271                              | 0.347 | 0.414 | 0.356 | 0.69  | 0.147 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5     |
|                      | LTE B71 | 10M_QPSK_50_24 | 133322  | Left Cheek    | 0.505                              | 0.358 | 0.672 | 0.672 | 0.586 | 0.539                              | 0.586 | 0.443 | 0.129 | 0.072 | 0.691                              | 0.491 | 0.348 | 0.52  | 0.415 | 0.491                              | 0.12  | 0.072 | 0.272 | 0.253 | 0.281 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6     |
|                      | n5      | 20M_QPSK_1_1   | 167800  | Left Cheek    | 0.057                              | 0.06  | 0.022 | 0.022 | 0.022 | 0.05                               | 0.003 | 0.05  | 0.022 | 0.022 | 0.022                              | 0.05  | 0.06  | 0.022 | 0.041 | 0.06                               | 0.031 | 0.022 | 0.031 | 0.05  | 0.022 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7     |
|                      | n71     | 20M_QPSK_50_0  | 136100  | Left Cheek    | 0.058                              | 0.023 | 0.023 | 0.013 | 0.023 | 0.013                              | 0.013 | 0.013 | 0.004 | 0.032 | 0.032                              | 0.032 | 0.004 | 0.061 | 0.004 | 0.061                              | 0.051 | 0.061 | 0.051 | 0.042 | 0.042 |
| WWAN<br>LAT<br>Head  | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8     |
|                      | UMTS B5 | RMC12.2Kbps    | 4233    | Left Cheek    | 0.154                              | 0.133 | 0.104 | 0.161 | 0.038 | 0.076                              | 0.057 | 0.104 | 0.133 | 0.161 | 0.057                              | 0.047 | 0.161 | 0.114 | 0.171 | 0.114                              | 0.066 | 0.085 | 0.038 | 0.123 | 0.095 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9     |
|                      | BC0     | RC3+SO55       | 1013    | Left Cheek    | 0.142                              | 0.123 | 0.009 | 0.094 | 0.056 | 0.113                              | 0.066 | 0.075 | 0.123 | 0.132 | 0.132                              | 0.009 | 0.142 | 0.161 | 0.009 | 0.142                              | 0.132 | 0.009 | 0.009 | 0.037 | 0.075 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10    |
|                      | BC10    | RC3+SO55       | 684     | Left Cheek    | 0.138                              | 0.138 | 0.148 | 0.167 | 0.148 | 0.072                              | 0.015 | 0.1   | 0.119 | 0.034 | 0.034                              | 0.034 | 0.062 | 0.11  | 0.11  | 0.024                              | 0.015 | 0.043 | 0.148 | 0.167 | 0.024 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11    |
|                      | LTE B12 | 10M_QPSK_1_0   | 23095   | Left Cheek    | 0.169                              | 0.135 | 0.05  | 0.173 | 0.078 | 0.04                               | 0.088 | 0.145 | 0.078 | 0.031 | 0.173                              | 0.078 | 0.031 | 0.021 | 0.107 | 0.078                              | 0.126 | 0.059 | 0.183 | 0.164 | 0.097 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12    |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230   | Left Cheek    | 0.121                              | 0.064 | 0.121 | 0.121 | 0.045 | 0.083                              | 0.14  | 0.017 | 0.036 | 0.121 | 0.112                              | 0.045 | 0.102 | 0.017 | 0.14  | 0.064                              | 0.017 | 0.017 | 0.074 | 0.036 | 0.131 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13    |
|                      | LTE B26 | 15M_QPSK_1_0   | 26915   | Left Cheek    | 0.163                              | 0.166 | 0.09  | 0.119 | 0.052 | 0.128                              | 0.024 | 0.176 | 0.081 | 0.157 | 0.109                              | 0.043 | 0.062 | 0.09  | 0.138 | 0.062                              | 0.052 | 0.128 | 0.109 | 0.043 | 0.119 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14    |
|                      | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Cheek    | 0.111                              | 0.035 | 0.13  | 0.025 | 0.025 | 0.054                              | 0.016 | 0.13  | 0.044 | 0.063 | 0.092                              | 0.006 | 0.073 | 0.054 | 0.082 | 0.12                               | 0.063 | 0.016 | 0.092 | 0.111 | 0.092 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15    |
|                      | n5      | 20M_QPSK_50_1  | 166800  | Left Cheek    | 0.092                              | 0.015 | 0.072 | 0.062 | 0.11  | 0.015                              | 0.129 | 0.053 | 0.034 | 0.034 | 0.091                              | 0.034 | 0.024 | 0.043 | 0.072 | 0.119                              | 0.129 | 0.072 | 0.005 | 0.015 | 0.11  |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16    |
|                      | n71     | 20M_QPSK_1_1   | 134600  | Left Cheek    | 0.081                              | 0.016 | 0.035 | 0.026 | 0.073 | 0.016                              | 0.016 | 0.026 | 0.073 | 0.016 | 0.007                              | 0.007 | 0.016 | 0.073 | 0.035 | 0.026                              | 0.083 | 0.073 | 0.016 | 0.035 | 0.007 |
| WWAN<br>UAT<br>Body  | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17    |
|                      | UMTS B5 | RMC12.2Kbps    | 4182    | Left Side     | 0.699                              | 0.603 | 0.403 | 0.632 | 0.394 | 0.441                              | 0.974 | 0.536 | 0.165 | 0.603 | 0.984                              | 0.098 | 0.174 | 0.06  | 0.146 | 0.079                              | 0.917 | 0.508 | 0.689 | 0.222 | 0.327 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18    |
|                      | BC0     | RTAP 153.6Kbps | 777     | Left Side     | 0.543                              | 0.318 | 0.337 | 0.651 | 0.232 | 0.413                              | 0.413 | 0.156 | 0.089 | 0.308 | 0.118                              | 0.527 | 0.175 | 0.099 | 0.594 | 0.632                              | 0.575 | 0.223 | 0.756 | 0.089 | 0.546 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19    |
|                      | BC10    | RTAP 153.6Kbps | 476     | Left Side     | 0.546                              | 0.531 | 0.512 | 0.322 | 0.646 | 0.417                              | 0.131 | 0.217 | 0.103 | 0.465 | 0.046                              | 0.598 | 0.484 | 0.074 | 0.131 | 0.712                              | 0.265 | 0.093 | 0.122 | 0.589 | 0.189 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20    |
|                      | LTE B12 | 10M_QPSK_1_25  | 23095   | Left Side     | 0.737                              | 0.43  | 0.211 | 0.097 | 0.106 | 0.297                              | 0.44  | 0.668 | 0.535 | 0.268 | 0.287                              | 0.668 | 0.316 | 0.487 | 0.278 | 0.506                              | 0.173 | 0.564 | 0.535 | 0.059 | 0.211 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21    |
|                      | LTE B13 | 10M_QPSK_25_12 | 23230   | Left Side     | 0.582                              | 0.123 | 0.085 | 0.789 | 0.342 | 0.466                              | 0.723 | 0.285 | 0.513 | 0.342 | 0.475                              | 0.399 | 0.447 | 0.742 | 0.18  | 0.732                              | 0.618 | 0.78  | 0.599 | 0.142 | 0.304 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22    |
|                      | LTE B26 | 15M_QPSK_36_20 | 26915   | Left Side     | 0.655                              | 0.433 | 0.28  | 0.404 | 0.633 | 0.852                              | 0.176 | 0.509 | 0.852 | 0.709 | 0.357                              | 0.557 | 0.757 | 0.747 | 0.509 | 0.176                              | 0.633 | 0.576 | 0.614 | 0.328 | 0.547 |
| Band                 | Mode    | Channel        | Test    | Measured      | 24                                 | 60    | 96    | 132   | 23    | 24                                 | 60    | 96    | 132   | 23    | 24                                 | 60    | 96    | 132   | 23    | 24                                 | 60    | 96    | 132   | 23    |       |



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|                     |         |                |         |                  |                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|---------------------|---------|----------------|---------|------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                     |         |                |         | Position         | 1g SAR<br>(W/kg)             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                     | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Side        | 0.633                        | 0.174 | 0.298 | 0.745 | 0.317 | 0.393 | 0.574 | 0.041 | 0.507 | 0.355 | 0.402 | 0.431 | 0.821 | 0.802 | 0.812 | 0.345 | 0.298 | 0.183 | 0.755 | 0.45  | 0.545 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    |  |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Left Side        | 0.11                         | 0.04  | 0.031 | 0.059 | 0.059 | 0.126 | 0.021 | 0.107 | 0.107 | 0.078 | 0.116 | 0.078 | 0.097 | 0.04  | 0.088 | 0.012 | 0.021 | 0.04  | 0.069 | 0.012 | 0.059 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    |  |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Left Side        | 0.086                        | 0.033 | 0.005 | 0.033 | 0.005 | 0.033 | 0.081 | 0.014 | 0.081 | 0.1   | 0.014 | 0.043 | 0.033 | 0.014 | 0.024 | 0.014 | 0.1   | 0.043 | 0.005 | 0.062 | 0.005 |  |
| WWAN<br>LAT<br>Body | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    |  |
|                     | UMTS B5 | RMC12.2Kbps    | 4132    | Back             | 0.432                        | 0.223 | 0.461 | 0.175 | 0.128 | 0.213 | 0.242 | 0.375 | 0.147 | 0.309 | 0.175 | 0.051 | 0.251 | 0.299 | 0.347 | 0.261 | 0.356 | 0.166 | 0.023 | 0.394 | 0.251 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    |  |
|                     | BC0     | RTAP 153.6Kbps | 1013    | Back             | 0.416                        | 0.251 | 0.175 | 0.118 | 0.299 | 0.365 | 0.451 | 0.318 | 0.118 | 0.356 | 0.032 | 0.222 | 0.156 | 0.47  | 0.413 | 0.422 | 0.241 | 0.375 | 0.27  | 0.356 | 0.213 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    |  |
|                     | BC10    | RTAP 153.6Kbps | 684     | Back             | 0.412                        | 0.238 | 0.429 | 0.048 | 0.077 | 0.448 | 0.315 | 0.429 | 0.372 | 0.143 | 0.277 | 0.457 | 0.181 | 0.191 | 0.2   | 0.172 | 0.219 | 0.286 | 0.248 | 0.448 | 0.172 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    |  |
|                     | LTE B12 | 10M_QPSK_1_25  | 23095   | Back             | 0.462                        | 0.261 | 0.499 | 0.128 | 0.261 | 0.48  | 0.195 | 0.09  | 0.48  | 0.309 | 0.442 | 0.357 | 0.328 | 0.204 | 0.099 | 0.242 | 0.252 | 0.357 | 0.128 | 0.071 | 0.223 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    |  |
|                     | LTE B13 | 10M_QPSK_25_12 | 23230   | Back             | 0.324                        | 0.231 | 0.374 | 0.05  | 0.222 | 0.117 | 0.069 | 0.031 | 0.136 | 0.279 | 0.298 | 0.326 | 0.117 | 0.06  | 0.184 | 0.374 | 0.231 | 0.145 | 0.212 | 0.069 | 0.098 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    |  |
|                     | LTE B26 | 15M_QPSK_1_0   | 26765   | Back             | 0.442                        | 0.395 | 0.129 | 0.167 | 0.424 | 0.148 | 0.433 | 0.062 | 0.043 | 0.271 | 0.176 | 0.233 | 0.3   | 0.462 | 0.405 | 0.395 | 0.348 | 0.033 | 0.338 | 0.471 | 0.433 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    |  |
|                     | LTE B71 | 10M_QPSK_50_24 | 133322  | Back             | 0.385                        | 0.063 | 0.158 | 0.187 | 0.196 | 0.377 | 0.025 | 0.254 | 0.254 | 0.215 | 0.263 | 0.425 | 0.168 | 0.187 | 0.063 | 0.044 | 0.377 | 0.292 | 0.034 | 0.168 | 0.158 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    |  |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Back             | 0.068                        | 0.07  | 0.06  | 0.013 | 0.013 | 0.003 | 0.032 | 0.06  | 0.022 | 0.06  | 0.013 | 0.06  | 0.07  | 0.013 | 0.032 | 0.022 | 0.041 | 0.07  | 0.022 | 0.041 | 0.013 |  |
|                     | Band    | Mode           | Channel | Test<br>Position | Measured<br>1g SAR<br>(W/kg) | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    |  |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Back             | 0.054                        | 0.049 | 0.011 | 0.059 | 0.04  | 0.021 | 0.059 | 0.049 | 0.059 | 0.059 | 0.03  | 0.049 | 0.049 | 0.002 | 0.011 | 0.021 | 0.04  | 0.049 | 0.021 | 0.049 | 0.03  |  |



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| RF exposure position |         |                |         |               | Aperture 08                        |       |       |       |       | Aperture 09                        |       |       |       |       | Aperture 10                        |       |       |       |       | Aperture 11                        |       |       |       |       |       |
|----------------------|---------|----------------|---------|---------------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|-------|
|                      |         |                |         |               | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       |       |
| WWAN<br>UAT Head     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144   |
|                      | UMTS B5 | RMC12.2Kbps    | 4233    | Left Cheek    | 0.521                              | 0.669 | 0.612 | 0.298 | 0.679 | 0.041                              | 0.641 | 0.298 | 0.184 | 0.412 | 0.593                              | 0.288 | 0.184 | 0.403 | 0.498 | 0.679                              | 0.422 | 0.612 | 0.526 | 0.622 | 0.088 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0     |
|                      | BC0     | RC3+SO55       | 777     | Left Cheek    | 0.487                              | 0.623 | 0.042 | 0.471 | 0.376 | 0.509                              | 0.033 | 0.1   | 0.271 | 0.3   | 0.623                              | 0.442 | 0.357 | 0.347 | 0.519 | 0.071                              | 0.281 | 0.547 | 0.338 | 0.233 | 0.614 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1     |
|                      | BC10    | RC3+SO55       | 580     | Left Cheek    | 0.515                              | 0.495 | 0.038 | 0.248 | 0.238 | 0.305                              | 0.048 | 0.191 | 0.238 | 0.714 | 0.61                               | 0.724 | 0.457 | 0.124 | 0.495 | 0.6                                | 0.153 | 0.391 | 0.495 | 0.657 | 0.6   |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2     |
|                      | LTE B12 | 10M_QPSK_25_12 | 23095   | Left Cheek    | 0.47                               | 0.528 | 0.614 | 0.347 | 0.128 | 0.547                              | 0.109 | 0.252 | 0.204 | 0.452 | 0.614                              | 0.309 | 0.204 | 0.471 | 0.528 | 0.366                              | 0.652 | 0.585 | 0.09  | 0.538 | 0.357 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3     |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230   | Left Cheek    | 0.554                              | 0.323 | 0.371 | 0.551 | 0.094 | 0.39                               | 0.523 | 0.342 | 0.151 | 0.123 | 0.18                               | 0.656 | 0.628 | 0.332 | 0.275 | 0.723                              | 0.142 | 0.18  | 0.428 | 0.694 | 0.647 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4     |
|                      | LTE B26 | 15M_QPSK_36_20 | 26965   | Left Cheek    | 0.534                              | 0.442 | 0.29  | 0.642 | 0.376 | 0.109                              | 0.395 | 0.652 | 0.28  | 0.147 | 0.109                              | 0.756 | 0.471 | 0.166 | 0.614 | 0.452                              | 0.061 | 0.537 | 0.442 | 0.614 | 0.385 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5     |
|                      | LTE B71 | 10M_QPSK_50_24 | 133322  | Left Cheek    | 0.505                              | 0.367 | 0.243 | 0.196 | 0.043 | 0.548                              | 0.539 | 0.281 | 0.491 | 0.615 | 0.062                              | 0.301 | 0.243 | 0.339 | 0.443 | 0.281                              | 0.167 | 0.31  | 0.434 | 0.529 | 0.167 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6     |
|                      | n5      | 20M_QPSK_1_1   | 167800  | Left Cheek    | 0.057                              | 0.012 | 0.022 | 0.031 | 0.022 | 0.06                               | 0.06  | 0.003 | 0.012 | 0.05  | 0.003                              | 0.031 | 0.003 | 0.05  | 0.06  | 0.031                              | 0.003 | 0.022 | 0.012 | 0.05  | 0.003 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7                                  | 8     | 44    | 80    | 116   | 7     |
|                      | n71     | 20M_QPSK_50_0  | 136100  | Left Cheek    | 0.058                              | 0.051 | 0.013 | 0.061 | 0.061 | 0.023                              | 0.013 | 0.032 | 0.042 | 0.023 | 0.013                              | 0.042 | 0.032 | 0.004 | 0.051 | 0.042                              | 0.023 | 0.004 | 0.061 | 0.051 | 0.013 |
| WWAN<br>LAT Head     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8     |
|                      | UMTS B5 | RMC12.2Kbps    | 4233    | Left Cheek    | 0.154                              | 0.142 | 0.076 | 0.009 | 0.066 | 0.095                              | 0.076 | 0.123 | 0.038 | 0.019 | 0.104                              | 0.114 | 0.133 | 0.171 | 0.076 | 0.142                              | 0.038 | 0.038 | 0.142 | 0.133 | 0.019 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9     |
|                      | BC0     | RC3+SO55       | 1013    | Left Cheek    | 0.142                              | 0.075 | 0.066 | 0.056 | 0.094 | 0.056                              | 0.066 | 0.104 | 0.123 | 0.113 | 0.085                              | 0.085 | 0.132 | 0.085 | 0.009 | 0.123                              | 0.028 | 0.066 | 0.037 | 0.009 | 0.009 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10    |
|                      | BC10    | RC3+SO55       | 684     | Left Cheek    | 0.138                              | 0.167 | 0.167 | 0.024 | 0.015 | 0.1                                | 0.148 | 0.062 | 0.043 | 0.015 | 0.157                              | 0.015 | 0.167 | 0.138 | 0.062 | 0.129                              | 0.053 | 0.034 | 0.053 | 0.138 | 0.091 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11    |
|                      | LTE B12 | 10M_QPSK_1_0   | 23095   | Left Cheek    | 0.169                              | 0.04  | 0.173 | 0.154 | 0.069 | 0.059                              | 0.145 | 0.183 | 0.126 | 0.145 | 0.012                              | 0.078 | 0.107 | 0.078 | 0.126 | 0.059                              | 0.088 | 0.116 | 0.173 | 0.012 | 0.031 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12    |
|                      | LTE B13 | 10M_QPSK_1_0   | 23230   | Left Cheek    | 0.121                              | 0.14  | 0.121 | 0.131 | 0.026 | 0.007                              | 0.017 | 0.026 | 0.064 | 0.102 | 0.112                              | 0.055 | 0.083 | 0.007 | 0.017 | 0.017                              | 0.045 | 0.064 | 0.131 | 0.131 | 0.131 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13    |
|                      | LTE B26 | 15M_QPSK_1_0   | 26915   | Left Cheek    | 0.163                              | 0.157 | 0.166 | 0.166 | 0.119 | 0.176                              | 0.147 | 0.176 | 0.166 | 0.147 | 0.176                              | 0.043 | 0.109 | 0.147 | 0.052 | 0.128                              | 0.119 | 0.138 | 0.024 | 0.176 | 0.043 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14    |
|                      | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Cheek    | 0.111                              | 0.025 | 0.063 | 0.073 | 0.12  | 0.092                              | 0.073 | 0.101 | 0.025 | 0.016 | 0.073                              | 0.13  | 0.111 | 0.006 | 0.044 | 0.092                              | 0.063 | 0.12  | 0.035 | 0.073 | 0.082 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15    |
|                      | n5      | 20M_QPSK_50_1  | 166800  | Left Cheek    | 0.092                              | 0.015 | 0.043 | 0.072 | 0.129 | 0.081                              | 0.091 | 0.091 | 0.072 | 0.119 | 0.091                              | 0.119 | 0.043 | 0.034 | 0.053 | 0.005                              | 0.081 | 0.053 | 0.005 | 0.1   | 0.081 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16                                 | 17    | 53    | 89    | 125   | 16    |
|                      | n71     | 20M_QPSK_1_1   | 134600  | Left Cheek    | 0.081                              | 0.007 | 0.016 | 0.026 | 0.026 | 0.007                              | 0.073 | 0.054 | 0.035 | 0.064 | 0.045                              | 0.007 | 0.054 | 0.016 | 0.016 | 0.035                              | 0.064 | 0.045 | 0.007 | 0.083 | 0.083 |
| WWAN<br>UAT Body     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17    |
|                      | UMTS B5 | RMC12.2Kbps    | 4182    | Left Side     | 0.699                              | 0.47  | 0.06  | 0.965 | 0.413 | 0.584                              | 0.794 | 0.241 | 0.746 | 0.079 | 0.584                              | 0.908 | 0.289 | 0.317 | 0.965 | 0.965                              | 0.251 | 0.546 | 0.403 | 0.213 | 0.698 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18    |
|                      | BC0     | RTAP 153.6Kbps | 777     | Left Side     | 0.543                              | 0.394 | 0.689 | 0.632 | 0.47  | 0.461                              | 0.68  | 0.404 | 0.232 | 0.089 | 0.051                              | 0.185 | 0.756 | 0.737 | 0.385 | 0.518                              | 0.356 | 0.613 | 0.642 | 0.07  | 0.213 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19    |
|                      | BC10    | RTAP 153.6Kbps | 476     | Left Side     | 0.546                              | 0.331 | 0.303 | 0.541 | 0.227 | 0.217                              | 0.293 | 0.76  | 0.589 | 0.617 | 0.75                               | 0.512 | 0.189 | 0.35  | 0.684 | 0.284                              | 0.427 | 0.436 | 0.446 | 0.293 | 0.15  |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20    |
|                      | LTE B12 | 10M_QPSK_1_25  | 23095   | Left Side     | 0.737                              | 0.554 | 0.649 | 0.335 | 0.583 | 0.306                              | 0.268 | 0.449 | 0.449 | 0.478 | 0.268                              | 0.706 | 0.516 | 0.506 | 0.535 | 0.268                              | 0.725 | 0.583 | 0.383 | 0.325 | 0.545 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21    |
|                      | LTE B13 | 10M_QPSK_25_12 | 23230   | Left Side     | 0.582                              | 0.666 | 0.618 | 0.751 | 0.37  | 0.132                              | 0.104 | 0.342 | 0.713 | 0.589 | 0.675                              | 0.313 | 0.323 | 0.132 | 0.332 | 0.551                              | 0.561 | 0.685 | 0.237 | 0.18  | 0.694 |
|                      | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg)             | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22                                 | 23    | 59    | 95    | 131   | 22    |



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|                     |         |                |         |               |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|---------|----------------|---------|---------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     | LTE B26 | 15M_QPSK_36_20 | 26915   | Left Side     | 0.655                  | 0.728 | 0.366 | 0.785 | 0.347 | 0.566 | 0.89  | 0.747 | 0.204 | 0.119 | 0.633 | 0.185 | 0.223 | 0.604 | 0.452 | 0.89  | 0.661 | 0.157 | 0.433 | 0.566 | 0.776 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    |
|                     | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Side     | 0.633                  | 0.688 | 0.717 | 0.136 | 0.469 | 0.593 | 0.66  | 0.364 | 0.136 | 0.774 | 0.583 | 0.717 | 0.241 | 0.221 | 0.698 | 0.098 | 0.374 | 0.307 | 0.041 | 0.583 | 0.107 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Left Side     | 0.11                   | 0.088 | 0.04  | 0.05  | 0.126 | 0.069 | 0.04  | 0.04  | 0.021 | 0.107 | 0.126 | 0.088 | 0.069 | 0.05  | 0.097 | 0.126 | 0.04  | 0.069 | 0.107 | 0.04  | 0.012 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    |
| WWAN<br>LAT<br>Body | n71     | 20M_QPSK_1_1   | 134600  | Left Side     | 0.086                  | 0.033 | 0.024 | 0.024 | 0.1   | 0.043 | 0.033 | 0.005 | 0.024 | 0.043 | 0.024 | 0.033 | 0.062 | 0.1   | 0.071 | 0.1   | 0.024 | 0.024 | 0.09  | 0.043 | 0.071 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    |
|                     | UMTS B5 | RMC12.2Kbps    | 4132    | Back          | 0.432                  | 0.271 | 0.29  | 0.09  | 0.385 | 0.032 | 0.09  | 0.385 | 0.118 | 0.042 | 0.404 | 0.156 | 0.242 | 0.242 | 0.156 | 0.194 | 0.032 | 0.042 | 0.413 | 0.366 | 0.128 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    |
|                     | BC0     | RTAP 153.6Kbps | 1013    | Back          | 0.416                  | 0.413 | 0.27  | 0.47  | 0.46  | 0.022 | 0.184 | 0.356 | 0.089 | 0.165 | 0.089 | 0.394 | 0.137 | 0.413 | 0.47  | 0.46  | 0.137 | 0.28  | 0.26  | 0.156 | 0.375 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    |
|                     | BC10    | RTAP 153.6Kbps | 684     | Back          | 0.412                  | 0.181 | 0.162 | 0.238 | 0.172 | 0.248 | 0.134 | 0.162 | 0.124 | 0.229 | 0.372 | 0.315 | 0.419 | 0.048 | 0.267 | 0.086 | 0.324 | 0.057 | 0.048 | 0.457 | 0.353 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    |
|                     | LTE B12 | 10M_QPSK_1_25  | 23095   | Back          | 0.462                  | 0.233 | 0.176 | 0.09  | 0.138 | 0.48  | 0.461 | 0.071 | 0.195 | 0.147 | 0.061 | 0.452 | 0.29  | 0.071 | 0.128 | 0.023 | 0.052 | 0.385 | 0.204 | 0.319 | 0.204 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    |
|                     | LTE B13 | 10M_QPSK_25_12 | 23230   | Back          | 0.324                  | 0.279 | 0.06  | 0.155 | 0.069 | 0.05  | 0.041 | 0.184 | 0.345 | 0.174 | 0.355 | 0.26  | 0.031 | 0.307 | 0.269 | 0.193 | 0.05  | 0.164 | 0.26  | 0.279 | 0.26  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    |
|                     | LTE B26 | 15M_QPSK_1_0   | 26765   | Back          | 0.442                  | 0.386 | 0.214 | 0.281 | 0.471 | 0.252 | 0.11  | 0.462 | 0.271 | 0.424 | 0.357 | 0.052 | 0.062 | 0.043 | 0.081 | 0.405 | 0.443 | 0.043 | 0.405 | 0.233 | 0.271 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    |
|                     | LTE B71 | 10M_QPSK_50_24 | 133322  | Back          | 0.385                  | 0.025 | 0.339 | 0.092 | 0.282 | 0.054 | 0.12  | 0.311 | 0.425 | 0.073 | 0.187 | 0.434 | 0.368 | 0.063 | 0.196 | 0.13  | 0.444 | 0.054 | 0.368 | 0.254 | 0.368 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Back          | 0.068                  | 0.06  | 0.07  | 0.022 | 0.032 | 0.07  | 0.003 | 0.022 | 0.051 | 0.07  | 0.051 | 0.013 | 0.041 | 0.032 | 0.041 | 0.022 | 0.003 | 0.06  | 0.041 | 0.041 | 0.013 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Back          | 0.054                  | 0.021 | 0.03  | 0.049 | 0.03  | 0.049 | 0.04  | 0.03  | 0.002 | 0.049 | 0.002 | 0.002 | 0.021 | 0.002 | 0.021 | 0.04  | 0.04  | 0.002 | 0.021 | 0.04  | 0.04  |



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| RF exposure position |               |                |               |                        | Aperture 12                        |       |       |       |       | Aperture 13                        |       |       |       |       | Aperture 14                        |       |       |       |       | Aperture 15                        |       |       |       |       |       |
|----------------------|---------------|----------------|---------------|------------------------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|-------|
|                      |               |                |               |                        | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       | Average Value of Time Sweep (W/kg) |       |       |       |       |       |
| WWAN<br>UAT Head     | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144                                | 0     | 36    | 72    | 108   | 144   |
|                      | UMTS B5       | RMC12.2Kbps    | 4233          | Left Cheek             | 0.521                              | 0.431 | 0.45  | 0.307 | 0.241 | 0.441                              | 0.117 | 0.174 | 0.507 | 0.46  | 0.365                              | 0.117 | 0.069 | 0.65  | 0.279 | 0.679                              | 0.488 | 0.126 | 0.546 | 0.088 | 0.593 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0                                  | 1     | 37    | 73    | 109   | 0     |
|                      | BC0           | RC3+SO55       | 777           | Left Cheek             | 0.487                              | 0.633 | 0.528 | 0.376 | 0.452 | 0.176                              | 0.195 | 0.176 | 0.604 | 0.385 | 0.347                              | 0.461 | 0.557 | 0.1   | 0.1   | 0.271                              | 0.328 | 0.042 | 0.661 | 0.309 | 0.223 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1                                  | 2     | 38    | 74    | 110   | 1     |
|                      | BC10          | RC3+SO55       | 580           | Left Cheek             | 0.515                              | 0.324 | 0.038 | 0.124 | 0.619 | 0.657                              | 0.143 | 0.695 | 0.6   | 0.638 | 0.514                              | 0.429 | 0.724 | 0.143 | 0.41  | 0.505                              | 0.238 | 0.467 | 0.105 | 0.4   | 0.581 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2                                  | 3     | 39    | 75    | 111   | 2     |
|                      | LTE B12       | 10M_QPSK_25_12 | 23095         | Left Cheek             | 0.47                               | 0.347 | 0.242 | 0.033 | 0.423 | 0.49                               | 0.328 | 0.566 | 0.509 | 0.433 | 0.481                              | 0.461 | 0.623 | 0.1   | 0.461 | 0.642                              | 0.528 | 0.147 | 0.261 | 0.233 | 0.252 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3                                  | 4     | 40    | 76    | 112   | 3     |
|                      | LTE B13       | 10M_QPSK_1_0   | 23230         | Left Cheek             | 0.554                              | 0.704 | 0.523 | 0.694 | 0.237 | 0.113                              | 0.409 | 0.58  | 0.513 | 0.609 | 0.551                              | 0.151 | 0.113 | 0.285 | 0.742 | 0.504                              | 0.228 | 0.151 | 0.237 | 0.161 | 0.075 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4                                  | 5     | 41    | 77    | 113   | 4     |
|                      | LTE B26       | 15M_QPSK_36_20 | 26965         | Left Cheek             | 0.534                              | 0.176 | 0.318 | 0.29  | 0.328 | 0.147                              | 0.071 | 0.423 | 0.385 | 0.395 | 0.28                               | 0.661 | 0.252 | 0.595 | 0.699 | 0.137                              | 0.661 | 0.642 | 0.614 | 0.661 | 0.509 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5                                  | 6     | 42    | 78    | 114   | 5     |
|                      | LTE B71       | 10M_QPSK_50_24 | 133322        | Left Cheek             | 0.505                              | 0.615 | 0.224 | 0.31  | 0.672 | 0.653                              | 0.491 | 0.167 | 0.558 | 0.434 | 0.053                              | 0.158 | 0.234 | 0.681 | 0.472 | 0.481                              | 0.643 | 0.491 | 0.377 | 0.472 | 0.558 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6                                  | 7     | 43    | 79    | 115   | 6     |
|                      | n5            | 20M_QPSK_1_1   | 167800        | Left Cheek             | 0.057                              | 0.05  | 0.05  | 0.06  | 0.031 | 0.022                              | 0.031 | 0.05  | 0.012 | 0.041 | 0.06                               | 0.031 | 0.05  | 0.012 | 0.022 | 0.022                              | 0.012 | 0.012 | 0.06  | 0.012 | 0.041 |
| Band                 | Mode          | Channel        | Test Position | Measured 1g SAR (W/kg) | 8                                  | 44    | 80    | 116   | 7     | 8                                  | 44    | 80    | 116   | 7     | 8                                  | 44    | 80    | 116   | 7     | 8                                  | 44    | 80    | 116   | 7     |       |
| n71                  | 20M_QPSK_50_0 | 136100         | Left Cheek    | 0.058                  | 0.042                              | 0.061 | 0.051 | 0.051 | 0.004 | 0.042                              | 0.023 | 0.004 | 0.023 | 0.042 | 0.004                              | 0.004 | 0.042 | 0.004 | 0.042 | 0.042                              | 0.042 | 0.061 | 0.061 | 0.042 |       |
| WWAN<br>LAT Head     | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8                                  | 9     | 45    | 81    | 117   | 8     |
|                      | UMTS B5       | RMC12.2Kbps    | 4233          | Left Cheek             | 0.154                              | 0.095 | 0.076 | 0.104 | 0.066 | 0.161                              | 0.114 | 0.047 | 0.104 | 0.114 | 0.142                              | 0.133 | 0.085 | 0.142 | 0.095 | 0.019                              | 0.076 | 0.104 | 0.152 | 0.076 | 0.028 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9                                  | 10    | 46    | 82    | 118   | 9     |
|                      | BC0           | RC3+SO55       | 1013          | Left Cheek             | 0.142                              | 0.161 | 0.151 | 0.094 | 0.085 | 0.047                              | 0.018 | 0.104 | 0.132 | 0.142 | 0.056                              | 0.037 | 0.085 | 0.037 | 0.075 | 0.056                              | 0.113 | 0.018 | 0.104 | 0.104 | 0.104 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10                                 | 11    | 47    | 83    | 119   | 10    |
|                      | BC10          | RC3+SO55       | 684           | Left Cheek             | 0.138                              | 0.129 | 0.062 | 0.081 | 0.034 | 0.062                              | 0.167 | 0.119 | 0.119 | 0.138 | 0.015                              | 0.157 | 0.053 | 0.1   | 0.119 | 0.024                              | 0.11  | 0.091 | 0.034 | 0.091 | 0.11  |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11                                 | 12    | 48    | 84    | 120   | 11    |
|                      | LTE B12       | 10M_QPSK_1_0   | 23095         | Left Cheek             | 0.169                              | 0.031 | 0.097 | 0.173 | 0.183 | 0.069                              | 0.107 | 0.04  | 0.173 | 0.135 | 0.069                              | 0.078 | 0.088 | 0.05  | 0.164 | 0.097                              | 0.135 | 0.145 | 0.164 | 0.183 | 0.088 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12                                 | 13    | 49    | 85    | 121   | 12    |
|                      | LTE B13       | 10M_QPSK_1_0   | 23230         | Left Cheek             | 0.121                              | 0.055 | 0.102 | 0.14  | 0.093 | 0.064                              | 0.102 | 0.045 | 0.026 | 0.064 | 0.083                              | 0.007 | 0.055 | 0.064 | 0.102 | 0.121                              | 0.15  | 0.007 | 0.017 | 0.055 | 0.14  |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13                                 | 14    | 50    | 86    | 122   | 13    |
|                      | LTE B26       | 15M_QPSK_1_0   | 26915         | Left Cheek             | 0.163                              | 0.062 | 0.157 | 0.176 | 0.147 | 0.043                              | 0.052 | 0.09  | 0.119 | 0.071 | 0.157                              | 0.033 | 0.09  | 0.081 | 0.033 | 0.081                              | 0.052 | 0.176 | 0.043 | 0.128 | 0.147 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14                                 | 15    | 51    | 87    | 123   | 14    |
|                      | LTE B71       | 10M_QPSK_1_0   | 133322        | Left Cheek             | 0.111                              | 0.035 | 0.092 | 0.025 | 0.12  | 0.082                              | 0.13  | 0.025 | 0.082 | 0.073 | 0.044                              | 0.111 | 0.054 | 0.082 | 0.025 | 0.063                              | 0.13  | 0.092 | 0.111 | 0.111 | 0.092 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15                                 | 16    | 52    | 88    | 124   | 15    |
|                      | n5            | 20M_QPSK_50_1  | 166800        | Left Cheek             | 0.092                              | 0.043 | 0.053 | 0.034 | 0.11  | 0.119                              | 0.129 | 0.119 | 0.072 | 0.1   | 0.062                              | 0.053 | 0.053 | 0.091 | 0.034 | 0.1                                | 0.129 | 0.1   | 0.053 | 0.129 | 0.062 |
| Band                 | Mode          | Channel        | Test Position | Measured 1g SAR (W/kg) | 17                                 | 53    | 89    | 125   | 16    | 17                                 | 53    | 89    | 125   | 16    | 17                                 | 53    | 89    | 125   | 16    | 17                                 | 53    | 89    | 125   | 16    |       |
| n71                  | 20M_QPSK_1_1  | 134600         | Left Cheek    | 0.081                  | 0.054                              | 0.083 | 0.054 | 0.054 | 0.026 | 0.035                              | 0.073 | 0.007 | 0.045 | 0.064 | 0.073                              | 0.045 | 0.073 | 0.007 | 0.016 | 0.007                              | 0.007 | 0.045 | 0.045 | 0.007 |       |
| WWAN<br>UAT Body     | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17                                 | 18    | 54    | 90    | 126   | 17    |
|                      | UMTS B5       | RMC12.2Kbps    | 4182          | Left Side              | 0.699                              | 0.346 | 0.374 | 0.213 | 0.536 | 0.66                               | 0.889 | 0.946 | 0.355 | 0.479 | 0.451                              | 0.917 | 0.46  | 0.251 | 0.584 | 0.555                              | 0.822 | 0.479 | 0.07  | 0.784 | 0.765 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18                                 | 19    | 55    | 91    | 127   | 18    |
|                      | BC0           | RTAP 153.6Kbps | 777           | Left Side              | 0.543                              | 0.566 | 0.346 | 0.089 | 0.042 | 0.623                              | 0.423 | 0.699 | 0.08  | 0.756 | 0.67                               | 0.746 | 0.746 | 0.366 | 0.366 | 0.194                              | 0.385 | 0.575 | 0.185 | 0.089 | 0.346 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19                                 | 20    | 56    | 92    | 128   | 19    |
|                      | BC10          | RTAP 153.6Kbps | 476           | Left Side              | 0.546                              | 0.541 | 0.112 | 0.17  | 0.312 | 0.179                              | 0.493 | 0.055 | 0.322 | 0.55  | 0.56                               | 0.312 | 0.179 | 0.56  | 0.398 | 0.408                              | 0.57  | 0.074 | 0.474 | 0.608 | 0.112 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20                                 | 21    | 57    | 93    | 129   | 20    |
|                      | LTE B12       | 10M_QPSK_1_25  | 23095         | Left Side              | 0.737                              | 0.583 | 0.259 | 0.068 | 0.364 | 0.221                              | 0.592 | 0.078 | 0.059 | 0.459 | 0.735                              | 0.678 | 0.64  | 0.164 | 0.211 | 0.278                              | 0.125 | 0.716 | 0.164 | 0.364 | 0.164 |
|                      | Band          | Mode           | Channel       | Test Position          | Measured 1g SAR (W/kg)             | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21                                 | 22    | 58    | 94    | 130   | 21    |
|                      | LTE B13       | 10M_QPSK_25_12 | 23230         | Left Side              | 0.582                              | 0.77  | 0.085 | 0.513 | 0.713 | 0.304                              | 0.066 | 0.704 | 0.151 | 0.351 | 0.542                              | 0.17  | 0.351 | 0.361 | 0.742 | 0.447                              | 0.066 | 0.304 | 0.551 | 0.399 | 0.57  |
| Band                 | Mode          | Channel        | Test Position | Measured 1g SAR (W/kg) | 23                                 | 59    | 95    | 131   | 22    | 23                                 | 59    | 95    | 131   | 22    | 23                                 | 59    | 95    | 131   | 22    | 23                                 | 59    | 95    | 131   | 22    |       |



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|                     |         |                |         |               |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|---------|----------------|---------|---------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     | LTE B26 | 15M_QPSK_36_20 | 26915   | Left Side     | 0.655                  | 0.671 | 0.48  | 0.528 | 0.223 | 0.423 | 0.242 | 0.423 | 0.08  | 0.528 | 0.252 | 0.604 | 0.633 | 0.823 | 0.823 | 0.814 | 0.166 | 0.366 | 0.052 | 0.728 | 0.128 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    | 24    | 60    | 96    | 132   | 23    |
|                     | LTE B71 | 10M_QPSK_1_0   | 133322  | Left Side     | 0.633                  | 0.364 | 0.641 | 0.202 | 0.25  | 0.602 | 0.745 | 0.269 | 0.755 | 0.412 | 0.202 | 0.307 | 0.06  | 0.621 | 0.212 | 0.183 | 0.555 | 0.507 | 0.183 | 0.707 | 0.65  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    | 25    | 61    | 97    | 133   | 24    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Left Side     | 0.11                   | 0.126 | 0.021 | 0.069 | 0.126 | 0.078 | 0.05  | 0.059 | 0.116 | 0.059 | 0.05  | 0.021 | 0.031 | 0.126 | 0.126 | 0.126 | 0.107 | 0.069 | 0.116 | 0.021 | 0.04  |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    | 26    | 62    | 98    | 134   | 25    |
| WWAN<br>LAT<br>Body | n71     | 20M_QPSK_1_1   | 134600  | Left Side     | 0.086                  | 0.024 | 0.081 | 0.024 | 0.024 | 0.005 | 0.071 | 0.043 | 0.071 | 0.024 | 0.062 | 0.09  | 0.033 | 0.052 | 0.09  | 0.09  | 0.005 | 0.09  | 0.1   | 0.005 | 0.033 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    | 27    | 63    | 99    | 135   | 26    |
|                     | UMTS B5 | RMC12.2Kbps    | 4132    | Back          | 0.432                  | 0.061 | 0.375 | 0.261 | 0.109 | 0.175 | 0.413 | 0.413 | 0.318 | 0.356 | 0.223 | 0.413 | 0.042 | 0.232 | 0.118 | 0.223 | 0.328 | 0.099 | 0.404 | 0.071 | 0.261 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    | 28    | 64    | 100   | 136   | 27    |
|                     | BC0     | RTAP 153.6Kbps | 1013    | Back          | 0.416                  | 0.089 | 0.28  | 0.441 | 0.213 | 0.118 | 0.203 | 0.213 | 0.175 | 0.127 | 0.184 | 0.451 | 0.232 | 0.203 | 0.022 | 0.451 | 0.146 | 0.47  | 0.451 | 0.127 | 0.289 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    | 29    | 65    | 101   | 137   | 28    |
|                     | BC10    | RTAP 153.6Kbps | 684     | Back          | 0.412                  | 0.077 | 0.048 | 0.2   | 0.315 | 0.343 | 0.153 | 0.134 | 0.172 | 0.219 | 0.153 | 0.191 | 0.353 | 0.257 | 0.143 | 0.41  | 0.419 | 0.353 | 0.162 | 0.391 | 0.277 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    | 30    | 66    | 102   | 138   | 29    |
|                     | LTE B12 | 10M_QPSK_1_25  | 23095   | Back          | 0.462                  | 0.357 | 0.204 | 0.071 | 0.395 | 0.042 | 0.023 | 0.147 | 0.48  | 0.452 | 0.471 | 0.29  | 0.185 | 0.328 | 0.052 | 0.309 | 0.204 | 0.461 | 0.214 | 0.033 | 0.138 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    | 31    | 67    | 103   | 139   | 30    |
|                     | LTE B13 | 10M_QPSK_25_12 | 23230   | Back          | 0.324                  | 0.317 | 0.174 | 0.193 | 0.345 | 0.345 | 0.164 | 0.069 | 0.269 | 0.26  | 0.041 | 0.317 | 0.241 | 0.345 | 0.069 | 0.193 | 0.336 | 0.317 | 0.279 | 0.317 | 0.231 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    | 32    | 68    | 104   | 140   | 31    |
|                     | LTE B26 | 15M_QPSK_1_0   | 26765   | Back          | 0.442                  | 0.367 | 0.405 | 0.033 | 0.167 | 0.148 | 0.205 | 0.148 | 0.262 | 0.281 | 0.414 | 0.129 | 0.243 | 0.062 | 0.281 | 0.386 | 0.348 | 0.119 | 0.224 | 0.3   | 0.367 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    | 33    | 69    | 105   | 141   | 32    |
|                     | LTE B71 | 10M_QPSK_50_24 | 133322  | Back          | 0.385                  | 0.349 | 0.339 | 0.311 | 0.377 | 0.396 | 0.13  | 0.282 | 0.377 | 0.292 | 0.377 | 0.406 | 0.311 | 0.044 | 0.168 | 0.301 | 0.377 | 0.425 | 0.415 | 0.415 | 0.206 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    | 34    | 70    | 106   | 142   | 33    |
|                     | n5      | 20M_QPSK_1_1   | 167800  | Back          | 0.068                  | 0.06  | 0.051 | 0.06  | 0.032 | 0.032 | 0.041 | 0.003 | 0.022 | 0.06  | 0.032 | 0.041 | 0.051 | 0.07  | 0.06  | 0.06  | 0.06  | 0.041 | 0.051 | 0.013 | 0.041 |
|                     | Band    | Mode           | Channel | Test Position | Measured 1g SAR (W/kg) | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    | 35    | 71    | 107   | 143   | 34    |
|                     | n71     | 20M_QPSK_1_1   | 134600  | Back          | 0.054                  | 0.011 | 0.059 | 0.03  | 0.049 | 0.059 | 0.021 | 0.002 | 0.03  | 0.011 | 0.021 | 0.011 | 0.021 | 0.04  | 0.002 | 0.011 | 0.011 | 0.049 | 0.04  | 0.002 | 0.04  |

| RF exposure position |               |                |             |               |                        | Average Value of Time Sweep (W/kg) |                       |       |       |       |       |
|----------------------|---------------|----------------|-------------|---------------|------------------------|------------------------------------|-----------------------|-------|-------|-------|-------|
| WWAN UAT Head        | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 28 )              | 0                     | 46    | 92    | 138   |       |
|                      | UMTS B4       | RMC12.2Kbps    | 1513        | Right Tilted  | 0.566                  | 0.824                              | 0.203                 | 0.241 | 0.089 | 0.727 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 34 )              | 1                     | 47    | 93    | 139   |       |
|                      | UMTS B2       | RMC12.2Kbps    | 9400        | Right Tilted  | 0.654                  | 0.99                               | 0.778                 | 0.14  | 0.626 | 0.502 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 33 )              | 2                     | 48    | 94    | 140   |       |
|                      | BC1           | RC3+SO55       | 1175        | Right Tilted  | 0.6                    | 0.914                              | 0.893                 | 0.674 | 0.655 | 0.655 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )              | 3                     | 49    | 95    | 141   |       |
|                      | B7            | 20_QPSK_1_0    | 20850       | Right Cheek   | 0.688                  | 0.938                              | 0.336                 | 0.536 | 0.326 | 0.774 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 33 )              | 4                     | 50    | 96    | 142   |       |
|                      | B25           | 20_QPSK_100_0  | 26590       | Right Tilted  | 0.773                  | 1.19                               | 0.626                 | 0.788 | 0.75  | 0.598 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 90 )              | 5                     | 51    | 97    | 143   |       |
|                      | B30           | 10_QPSK_25_12  | 27710       | Right Tilted  | 0.777                  | 1.01                               | 0.932                 | 0.922 | 0.779 | 0.17  |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 28 )              | 6                     | 52    | 98    | 144   |       |
|                      | B66           | 20_QPSK_1_0    | 132572      | Right Tilted  | 0.583                  | 0.925                              | 0.704                 | 0.58  | 0.456 | 0.818 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )              | 7                     | 53    | 99    | 0     |       |
|                      | B41           | 20_QPSK_50_24  | 39750       | Right Cheek   | 0.663                  | 0.936                              | 0.658                 | 0.258 | 0.248 | 0.344 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 0 )               | 8                     | 54    | 100   | 1     |       |
|                      | B48           | 20_QPSK_1_0    | 56640       | Right Tilted  | 0.846                  | 1.18                               | 1.008                 | 0.242 | 0.938 | 0.357 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 106 )             | 9                     | 55    | 101   | 2     |       |
|                      | n2            | 20_QPSK_50_56  | 372000      | Right Cheek   | 0.631                  | 1.15                               | 0.253                 | 0.148 | 0.262 | 1.043 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 10 )              | 10                    | 56    | 102   | 3     |       |
|                      | n66           | 20_QPSK_50_0   | 354000      | Right Tilted  | 0.671                  | 1.07                               | 0.23                  | 1.011 | 0.878 | 0.43  |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )              | 11                    | 57    | 103   | 4     |       |
|                      | n41           | 100_QPSK_1_1   | 509200      | Right Tilted  | 0.908                  | 1.65                               | 0.581                 | 0.534 | 1.391 | 0.153 |       |
| WWAN LAT Head        | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 83 )              | 12                    | 58    | 104   | 5     |       |
|                      | UMTS B4       | RMC12.2Kbps    | 1513        | Left Cheek    | 0.244                  | 0.308                              | 0.258                 | 0.144 | 0.306 | 0.23  |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 64 )              | 13                    | 59    | 105   | 6     |       |
|                      | UMTS B2       | RMC12.2Kbps    | 9400        | Right Cheek   | 0.257                  | 0.315                              | 0.237                 | 0.284 | 0.084 | 0.037 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 65 )              | 14                    | 60    | 106   | 7     |       |
|                      | BC1           | RC3+SO55       | 25          | Right Cheek   | 0.245                  | 0.303                              | 0.244                 | 0.301 | 0.206 | 0.215 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 53 )              | 15                    | 61    | 107   | 8     |       |
|                      | B7            | 20_QPSK_1_0    | 21350       | Left Cheek    | 0.323                  | 0.428                              | 0.188                 | 0.036 | 0.036 | 0.064 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 65 )              | 16                    | 62    | 108   | 9     |       |
|                      | B25           | 20_QPSK_1_0    | 26340       | Right Cheek   | 0.311                  | 0.342                              | 0.073                 | 0.321 | 0.14  | 0.13  |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 143 )             | 17                    | 63    | 109   | 10    |       |
|                      | B30           | 10_QPSK_1_0    | 27710       | Left Cheek    | 0.329                  | 0.436                              | 0.11                  | 0.215 | 0.32  | 0.32  |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 46 )              | 18                    | 64    | 110   | 11    |       |
|                      | B66           | 20_QPSK_1_0    | 132572      | Right Cheek   | 0.228                  | 0.313                              | 0.282                 | 0.197 | 0.159 | 0.101 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 134 )             | 19                    | 65    | 111   | 12    |       |
|                      | B41           | 20_QPSK_1_49   | 41490       | Left Cheek    | 0.272                  | 0.354                              | 0.238                 | 0.304 | 0.219 | 0.333 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 118 )             | 20                    | 66    | 112   | 13    |       |
|                      | n2            | 20_QPSK_50_0   | 380000      | Right Cheek   | 0.139                  | 0.198                              | 0.127                 | 0.08  | 0.07  | 0.127 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 46 )              | 21                    | 67    | 113   | 14    |       |
|                      | n66           | 20_QPSK_1_1    | 354000      | Right Tilted  | 0.17                   | 0.185                              | 0.149                 | 0.101 | 0.082 | 0.149 |       |
|                      | Band          | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 136 )             | 22                    | 68    | 114   | 15    |       |
|                      | n41           | 100_QPSK_1_1   | 518600      | Left Cheek    | 0.19                   | 0.332                              | 0.263                 | 0.197 | 0.073 | 0.301 |       |
|                      | WWAN UAT Body | Band           | Mode        | Channel       | Test Position          | Measured 1g SAR (W/kg)             | Auto-Tune (State 28 ) | 23    | 69    | 115   | 16    |
|                      |               | UMTS B4        | RMC12.2Kbps | 1513          | Top Side               | 0.682                              | 0.92                  | 0.738 | 0.643 | 0.291 | 0.719 |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 34 )              | 24                    | 70    | 116   | 17    |       |
| UMTS B2              |               | RMC12.2Kbps    | 9538        | Top Side      | 0.736                  | 0.99                               | 0.598                 | 0.178 | 0.236 | 0.778 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 65 )              | 25                    | 71    | 117   | 18    |       |
| BC1                  |               | RTAP 153.6Kbps | 1175        | Top Side      | 0.234                  | 0.348                              | 0.251                 | 0.06  | 0.241 | 0.279 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )              | 26                    | 72    | 118   | 19    |       |
| B7                   |               | 20_QPSK_100_0  | 20850       | Top Side      | 0.807                  | 1.1                                | 0.376                 | 0.258 | 0.505 | 0.537 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 33 )              | 27                    | 73    | 119   | 20    |       |
| B25                  |               | 20_QPSK_1_0    | 26590       | Top Side      | 0.561                  | 0.762                              | 0.494                 | 0.378 | 0.178 | 0.302 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 90 )              | 28                    | 74    | 120   | 21    |       |
| B30                  |               | 10_QPSK_1_0    | 27710       | Top Side      | 0.815                  | 1.11                               | 0.832                 | 0.403 | 0.565 | 0.118 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 28 )              | 29                    | 75    | 121   | 22    |       |
| B66                  |               | 20_QPSK_1_0    | 132572      | Top Side      | 0.721                  | 0.951                              | 0.854                 | 0.444 | 0.273 | 0.673 |       |
| Band                 |               | Mode           | Channel     | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )              | 30                    | 76    | 122   | 23    |       |



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|                  |         |                |          |               |                        |                        |       |       |       |       |
|------------------|---------|----------------|----------|---------------|------------------------|------------------------|-------|-------|-------|-------|
| WWAN LAT<br>Body | B41     | 20_QPSK_1_0    | 39790    | Top Side      | 0.839                  | 1.19                   | 0.178 | 0.302 | 0.207 | 0.226 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 0 )   | 31    | 77    | 123   | 24    |
|                  | B48     | 20_QPSK_1_0    | 56640    | Top Side      | 0.636                  | 1.15                   | 0.348 | 0.538 | 0.71  | 0.167 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 106 ) | 32    | 78    | 124   | 25    |
|                  | n2      | 20_QPSK_1_1    | 376000   | Top Side      | 0.654                  | 0.968                  | 0.299 | 0.28  | 0.642 | 0.385 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 10 )  | 33    | 79    | 125   | 26    |
|                  | n66     | 20_QPSK_50_56  | Top Side | Top Side      | 0.642                  | 0.941                  | 0.653 | 0.653 | 0.796 | 0.272 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 99 )  | 34    | 80    | 126   | 27    |
|                  | n41     | 100_QPSK_1_1   | 509200   | Top Side      | 0.846                  | 1.15                   | 0.815 | 0.415 | 0.253 | 1.08  |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 83 )  | 35    | 81    | 127   | 28    |
|                  | UMTS B4 | RMC12.2Kbps    | 1312     | Bottom Side   | 0.734                  | 0.98                   | 0.359 | 0.818 | 0.359 | 0.197 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 64 )  | 36    | 82    | 128   | 29    |
|                  | UMTS B2 | RMC12.2Kbps    | 9538     | Bottom Side   | 0.489                  | 1.02                   | 0.247 | 0.428 | 0.742 | 0.599 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 65 )  | 37    | 83    | 129   | 30    |
|                  | BC1     | RTAP 153.6Kbps | 1175     | Bottom Side   | 0.6                    | 0.763                  | 0.732 | 0.104 | 0.113 | 0.171 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 53 )  | 38    | 84    | 130   | 31    |
|                  | B7      | 20_QPSK_50_24  | 20850    | Back          | 0.503                  | 0.745                  | 0.257 | 0.429 | 0.143 | 0.686 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 65 )  | 39    | 85    | 131   | 32    |
|                  | B25     | 20_QPSK_50_24  | 26340    | Bottom Side   | 0.441                  | 0.618                  | 0.454 | 0.568 | 0.187 | 0.587 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 143 ) | 40    | 86    | 132   | 33    |
|                  | B30     | 10_QPSK_25_12  | 27710    | Bottom Side   | 0.45                   | 0.551                  | 0.387 | 0.139 | 0.397 | 0.197 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 46 )  | 41    | 87    | 133   | 34    |
|                  | B66     | 20_QPSK_50_24  | 132322   | Bottom Side   | 0.704                  | 0.964                  | 0.638 | 0.514 | 0.924 | 0.657 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 134 ) | 42    | 88    | 134   | 35    |
|                  | B41     | 20_QPSK_50_24  | 39750    | Back          | 0.499                  | 0.725                  | 0.466 | 0.399 | 0.724 | 0.513 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 118 ) | 43    | 89    | 135   | 36    |
|                  | n2      | 20_QPSK_50_50  | 376000   | Bottom Side   | 0.561                  | 0.798                  | 0.548 | 0.253 | 0.786 | 0.415 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 46 )  | 44    | 90    | 136   | 37    |
|                  | n66     | 20_QPSK_1_1    | 354000   | Bottom Side   | 0.661                  | 0.958                  | 0.642 | 0.366 | 0.27  | 0.889 |
|                  | Band    | Mode           | Channel  | Test Position | Measured 1g SAR (W/kg) | Auto-Tune (State 136 ) | 45    | 91    | 137   | 38    |
|                  | n41     | 100_QPSK_1_1   | 518600   | Back          | 0.382                  | 0.618                  | 0.559 | 0.13  | 0.273 | 0.397 |

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## **20. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **21. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 941225 D07 v01r02, " SAR Evaluation Procedures for UMPC Mini-Tablet Devices", Oct 2015.
- [13] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [14] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.