

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO**

**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C &  
SUBPART L, PART 90S AND INDUSTRY CANADA RSS-130, RSS-132, RSS-133,  
RSS-139, RSS-195 & RSS-199 REQUIREMENT**

OF

**Applicant:** Microsoft Corporation  
One Microsoft Way, Redmond, WA 98052-6399 USA

**Product Name:** Portable Computing Device

**Brand Name:** Microsoft

**Model No.:** 1825

**Model Difference:** N/A

**FCC ID:** C3K1825

**IC:** 3048A-1825

**Report Number:** E2/2018/70116

**FCC Rule Part:** 2, 22H & 24E & 27B, C & L & 90S

**IC Rule Part:** RSS 130 Issue 1 Oct. 2013, RSS 132 Issue 3 Jan. 2013,  
RSS 133 Issue 6 Jan. 2018, RSS 139 Issue 3 Jul. 2015,  
RSS 195 Issue 2 Apr. 2014, RSS 199 Issue 3 Dec. 2016

**Issue Date:** Aug. 29, 2018

**Date of Test:** Jun. 26, 2018 ~ Aug. 24, 2018

**Date of EUT Received:** Jun. 26, 2018

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

**Tested By:**  
Vito Pei / Sr. Engineer**Approved By:**  
Jim Chang / Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## Revision History

| Report Number | Revision | Description                  | Effectuated Page | Issue Date    | Revised By  |
|---------------|----------|------------------------------|------------------|---------------|-------------|
| E2/2018/70116 | Rev.00   | Initial creation of document | All              | Aug. 29, 2018 | Tiffany Kao |

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

|                              |                                                                       |                                     |
|------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Product Name:                | Portable Computing Device                                             |                                     |
| Brand Name:                  | Microsoft                                                             |                                     |
| Model No.:                   | 1825                                                                  |                                     |
| Model Difference:            | N/A                                                                   |                                     |
| Product SW/HW version:       | Windows 10 Pro / EV2.7                                                |                                     |
| Radio SW/HW version:         | 18.33.105.6 / EV2.7                                                   |                                     |
| Test SW Version:             | N/A                                                                   |                                     |
| RF power setting in TEST SW: | N/A                                                                   |                                     |
| Power Supply:                | 7.66Vdc from Rechargeable Li-ion Battery<br>or 15V from AC/DC Adapter |                                     |
|                              | Battery:                                                              | Model No.: G16QA043H, Supplier: SMP |
|                              | Adapter:                                                              | Model No.: 1735, Supplier: LITEON   |

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## 1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

| Operating Frequency (MHz) |        |   |        |
|---------------------------|--------|---|--------|
| WCDMA / HSPA+ Band II     | 1852.4 | - | 1907.6 |
| WCDMA / HSPA+ Band V      | 826.4  | - | 846.6  |

| LTE Band | BW (MHz) | Operation Frequency (MHz) |          | LTE Band  | BW (MHz) | Operation Frequency (MHz) |          |
|----------|----------|---------------------------|----------|-----------|----------|---------------------------|----------|
| 2        | 1.4      | 1850.7                    | - 1909.3 | 13        | 5        | 779.5                     | - 784.5  |
|          | 3        | 1851.5                    | - 1908.5 |           | 10       | 782                       |          |
|          | 5        | 1852.5                    | - 1907.5 | 25        | 1.4      | 1850.7                    | - 1914.3 |
|          | 10       | 1855.0                    | - 1905.0 |           | 3        | 1851.5                    | - 1913.5 |
|          | 15       | 1857.5                    | - 1902.5 |           | 5        | 1852.5                    | - 1912.5 |
|          | 20       | 1860.0                    | - 1900.0 |           | 10       | 1855.0                    | - 1910.0 |
| 4        | 1.4      | 1710.7                    | - 1754.3 |           | 15       | 1857.5                    | - 1907.5 |
|          | 3        | 1711.5                    | - 1753.5 | 26        | 20       | 1860.0                    | - 1905.0 |
|          | 5        | 1712.5                    | - 1752.5 |           | 1.4      | 824.7                     | - 848.3  |
|          | 10       | 1715.0                    | - 1780.0 |           | 3        | 825.5                     | - 847.5  |
|          | 15       | 1717.5                    | - 1747.5 |           | 5        | 826.5                     | - 846.5  |
|          | 20       | 1720.0                    | - 1745.0 |           | 10       | 829.0                     | - 844.0  |
| 5        | 1.4      | 824.7                     | - 848.3  | 26 Part90 | 15       | 831.5                     | - 841.5  |
|          | 3        | 825.5                     | - 847.5  |           | 1.4      | 814.7                     | - 823.3  |
|          | 5        | 826.5                     | - 846.5  |           | 3        | 815.5                     | - 822.5  |
|          | 10       | 829.0                     | - 844.0  |           | 5        | 816.5                     | - 821.5  |
| 7        | 5        | 2502.5                    | - 2567.5 |           | 10       | 819.0                     |          |
|          | 10       | 2505.0                    | - 2565.0 | 30        | 5        | 2307.5                    | - 2312.5 |
|          | 15       | 2507.5                    | - 2562.5 |           | 10       | 2310.0                    |          |
|          | 20       | 2510.0                    | - 2560.0 | 38        | 5        | 2572.5                    | - 2617.5 |
| 12       | 1.4      | 699.7                     | - 715.3  |           | 10       | 2575.0                    | - 2615.0 |
|          | 3        | 700.5                     | - 714.5  |           | 15       | 2577.5                    | - 2612.5 |
|          | 5        | 701.5                     | - 713.5  |           | 20       | 2580.0                    | - 2610.0 |
|          | 10       | 704.0                     | ~ 711.0  |           |          |                           |          |

| LTE Band | BW (MHz) | Operation Frequency (MHz) |          | LTE Band | BW (MHz) | Operation Frequency (MHz) |          |
|----------|----------|---------------------------|----------|----------|----------|---------------------------|----------|
| 41       | 5        | 2498.5                    | - 2687.5 | 66       | 1.4      | 1710.7                    | - 1779.3 |
|          | 10       | 2501.0                    | - 2685.0 |          | 3        | 1711.5                    | - 1778.5 |
|          | 15       | 2503.5                    | - 2682.5 |          | 5        | 1712.5                    | - 1777.5 |
|          | 20       | 2506.0                    | - 2680.0 |          | 10       | 1715.0                    | - 1775.0 |
|          |          |                           |          |          | 15       | 1717.5                    | - 1772.5 |
|          |          |                           |          |          | 20       | 1720.0                    | - 1770.0 |

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## Antenna Designation

| Vendor                                   | Type   | Main / Aux | Antenna Part No.             | Modulation           | Frequency (MHz) | Peak Antenna Gain (dBi) |
|------------------------------------------|--------|------------|------------------------------|----------------------|-----------------|-------------------------|
| Jieng Tai International Electronic Corp. | Couple | Main       | DQ67KYQUT77 / 7KYQUTAN000398 | WCDMA / HSPA Band II | 1852.4 ~ 1907.6 | 1.09                    |
|                                          |        |            |                              | WCDMA / HSPA Band V  | 826.4 ~ 846.6   | 0.16                    |
|                                          |        |            |                              | LTE Band 2           | 1850 ~ 1910     | 1.09                    |
|                                          |        |            |                              | LTE Band 4           | 1710 ~ 1755     | 1.92                    |
|                                          |        |            |                              | LTE Band 5           | 824 ~ 849       | 0.16                    |
|                                          |        |            |                              | LTE Band 7           | 2503 ~ 2560     | 2.11                    |
|                                          |        |            |                              | LTE Band 12          | 699 ~ 716       | 0.09                    |
|                                          |        |            |                              | LTE Band 13          | 777 ~ 787       | 1.48                    |
|                                          |        |            |                              | LTE Band 25          | 1850 ~ 1915     | 1.09                    |
|                                          |        |            |                              | LTE Band 26          | 824 ~ 849       | 0.72                    |
|                                          |        |            |                              | LTE Band 26          | 814 ~ 824       | 0.72                    |
|                                          |        |            |                              | LTE Band 30          | 2305 ~ 2315     | 0.95                    |
|                                          |        |            |                              | LTE Band 38          | 2573 ~ 2610     | 2.11                    |
|                                          |        |            |                              | LTE Band 41          | 2496 ~ 2690     | 2.11                    |
|                                          |        |            |                              | LTE Band 66          | 1710 ~ 1780     | 1.92                    |

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### 1.3. Type of Emission & Max ERP/EIRP Power Measurement Result:

|               | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|---------------|------------------|------|-------|------------------|
| WCDMA Band II | 23.29            | EIRP | 0.213 | 4M12F9W          |
| HSDPA Band II | 22.32            | EIRP | 0.171 | 4M12F9W          |
| HSUPA Band II | 22.83            | EIRP | 0.192 | 4M13F9W          |
| WCDMA Band V  | 24.11            | ERP  | 0.258 | 4M12F9W          |
|               | 26.26            | EIRP | 0.423 |                  |
| HSDPA Band V  | 23.25            | ERP  | 0.211 | 4M13F9W          |
|               | 25.40            | EIRP | 0.347 |                  |
| HSUPA Band V  | 23.13            | ERP  | 0.206 | 4M14F9W          |
|               | 25.28            | EIRP | 0.337 |                  |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|----------|----------|------------|------------------|------|-------|------------------|
| 2        | 1.4      | QPSK       | 23.19            | EIRP | 0.208 | 1M10G7D          |
|          | 1.4      | 16QAM      | 22.42            | EIRP | 0.175 | 1M10D7W          |
|          | 3        | QPSK       | 23.24            | EIRP | 0.211 | 2M70G7D          |
|          | 3        | 16QAM      | 22.54            | EIRP | 0.179 | 2M70D7W          |
|          | 5        | QPSK       | 23.26            | EIRP | 0.212 | 4M50G7D          |
|          | 5        | 16QAM      | 22.57            | EIRP | 0.181 | 4M51D7W          |
|          | 10       | QPSK       | 23.20            | EIRP | 0.209 | 9M02G7D          |
|          | 10       | 16QAM      | 22.56            | EIRP | 0.180 | 8M96D7W          |
|          | 15       | QPSK       | 23.32            | EIRP | 0.215 | 13M5G7D          |
|          | 15       | 16QAM      | 22.57            | EIRP | 0.181 | 13M5D7W          |
|          | 20       | QPSK       | 23.37            | EIRP | 0.217 | 18M0G7D          |
|          | 20       | 16QAM      | 22.45            | EIRP | 0.176 | 18M0D7W          |
| 5        | 1.4      | QPSK       | 24.13            | ERP  | 0.259 | 1M10G7D          |
|          |          |            | 26.28            | EIRP | 0.425 |                  |
|          | 1.4      | 16QAM      | 23.50            | ERP  | 0.224 | 1M10D7W          |
|          |          |            | 25.65            | EIRP | 0.367 |                  |
|          | 3        | QPSK       | 24.15            | ERP  | 0.260 | 2M70G7D          |
|          |          |            | 26.30            | EIRP | 0.426 |                  |
|          | 3        | 16QAM      | 23.60            | ERP  | 0.229 | 2M70D7W          |
|          |          |            | 25.75            | EIRP | 0.376 |                  |
|          | 5        | QPSK       | 24.21            | ERP  | 0.264 | 4M50G7D          |
|          |          |            | 26.36            | EIRP | 0.433 |                  |
|          | 5        | 16QAM      | 23.56            | ERP  | 0.227 | 4M50D7W          |
|          |          |            | 25.71            | EIRP | 0.372 |                  |
|          | 10       | QPSK       | 24.23            | ERP  | 0.265 | 9M01G7D          |
|          |          |            | 26.38            | EIRP | 0.435 |                  |
|          | 10       | 16QAM      | 23.63            | ERP  | 0.231 | 8M98D7W          |
|          |          |            | 25.78            | EIRP | 0.379 |                  |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|----------|----------|------------|------------------|------|-------|------------------|
| 4        | 1.4      | QPSK       | 26.00            | EIRP | 0.398 | 1M09G7D          |
|          | 1.4      | 16QAM      | 25.25            | EIRP | 0.335 | 1M10D7W          |
|          | 3        | QPSK       | 26.03            | EIRP | 0.401 | 2M70G7D          |
|          | 3        | 16QAM      | 25.41            | EIRP | 0.348 | 2M70D7W          |
|          | 5        | QPSK       | 26.02            | EIRP | 0.400 | 4M52G7D          |
|          | 5        | 16QAM      | 25.41            | EIRP | 0.348 | 4M51D7W          |
|          | 10       | QPSK       | 26.17            | EIRP | 0.414 | 9M01G7D          |
|          | 10       | 16QAM      | 25.39            | EIRP | 0.346 | 8M97D7W          |
|          | 15       | QPSK       | 26.31            | EIRP | 0.428 | 13M5G7D          |
|          | 15       | 16QAM      | 25.33            | EIRP | 0.341 | 13M5D7W          |
|          | 20       | QPSK       | 26.32            | EIRP | 0.429 | 18M0G7D          |
|          | 20       | 16QAM      | 25.80            | EIRP | 0.380 | 18M0D7W          |

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| 7 | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|---|----------|------------|------------------|------|-------|------------------|
| 7 | 5        | QPSK       | 26.40            | EIRP | 0.437 | 4M50G7D          |
|   | 5        | 16QAM      | 25.56            | EIRP | 0.360 | 4M51D7W          |
|   | 10       | QPSK       | 26.37            | EIRP | 0.434 | 8M99G7D          |
|   | 10       | 16QAM      | 25.57            | EIRP | 0.361 | 8M96D7W          |
|   | 15       | QPSK       | 26.45            | EIRP | 0.442 | 13M5G7D          |
|   | 15       | 16QAM      | 25.94            | EIRP | 0.393 | 13M5D7W          |
|   | 20       | QPSK       | 26.53            | EIRP | 0.450 | 18M0G7D          |
|   | 20       | 16QAM      | 25.86            | EIRP | 0.385 | 18M0D7W          |

|    |     |       |                |             |                |         |
|----|-----|-------|----------------|-------------|----------------|---------|
| 12 | 1.4 | QPSK  | 24.08<br>26.23 | ERP<br>EIRP | 0.256<br>0.420 | 1M10G7D |
|    | 1.4 | 16QAM | 23.37<br>25.52 | ERP<br>EIRP | 0.217<br>0.356 | 1M10D7W |
|    | 3   | QPSK  | 24.11<br>26.26 | ERP<br>EIRP | 0.258<br>0.423 | 2M70G7D |
|    | 3   | 16QAM | 23.56<br>25.71 | ERP<br>EIRP | 0.227<br>0.372 | 2M71D7W |
|    | 5   | QPSK  | 24.15<br>26.30 | ERP<br>EIRP | 0.260<br>0.426 | 4M51G7D |
|    | 5   | 16QAM | 23.52<br>25.67 | ERP<br>EIRP | 0.225<br>0.369 | 4M51D7W |
|    | 10  | QPSK  | 24.14<br>26.29 | ERP<br>EIRP | 0.259<br>0.425 | 9M03G7D |
|    | 10  | 16QAM | 23.50<br>25.65 | ERP<br>EIRP | 0.224<br>0.367 | 8M96D7W |
| 13 | 5   | QPSK  | 25.56<br>27.71 | ERP<br>EIRP | 0.360<br>0.590 | 4M52G7D |
|    | 5   | 16QAM | 24.65<br>26.80 | ERP<br>EIRP | 0.292<br>0.479 | 4M51D7W |
|    | 10  | QPSK  | 25.37<br>27.52 | ERP<br>EIRP | 0.344<br>0.564 | 8M96G7D |
|    | 10  | 16QAM | 24.73<br>26.88 | ERP<br>EIRP | 0.297<br>0.487 | 8M95D7W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |             | (W)            | Type of Emission |
|----------|----------|------------|------------------|-------------|----------------|------------------|
| 25       | 1.4      | QPSK       | 23.09            | EIRP        | 0.204          | 1M10G7D          |
|          | 1.4      | 16QAM      | 22.45            | EIRP        | 0.176          | 1M10D7W          |
|          | 3        | QPSK       | 23.22            | EIRP        | 0.210          | 2M70G7D          |
|          | 3        | 16QAM      | 22.49            | EIRP        | 0.177          | 2M70D7W          |
|          | 5        | QPSK       | 23.18            | EIRP        | 0.208          | 4M50G7D          |
|          | 5        | 16QAM      | 22.40            | EIRP        | 0.174          | 4M51D7W          |
|          | 10       | QPSK       | 23.40            | EIRP        | 0.219          | 9M01G7D          |
|          | 10       | 16QAM      | 22.50            | EIRP        | 0.178          | 8M97D7W          |
|          | 15       | QPSK       | 23.32            | EIRP        | 0.215          | 13M5G7D          |
|          | 15       | 16QAM      | 22.79            | EIRP        | 0.190          | 13M5D7W          |
|          | 20       | QPSK       | 23.31            | EIRP        | 0.214          | 17M9G7D          |
|          | 20       | 16QAM      | 22.48            | EIRP        | 0.177          | 18M0D7W          |
| 26       | 1.4      | QPSK       | 24.74<br>26.89   | ERP<br>EIRP | 0.298<br>0.489 | 1M09G7D          |
|          | 1.4      | 16QAM      | 24.09<br>26.24   | ERP<br>EIRP | 0.256<br>0.420 | 1M10D7W          |
|          | 3        | QPSK       | 24.86<br>27.01   | ERP<br>EIRP | 0.306<br>0.502 | 2M70G7D          |
|          | 3        | 16QAM      | 24.05<br>26.20   | ERP<br>EIRP | 0.254<br>0.417 | 2M70D7W          |
|          | 5        | QPSK       | 24.82<br>26.97   | ERP<br>EIRP | 0.303<br>0.497 | 4M50G7D          |
|          | 5        | 16QAM      | 24.22<br>26.37   | ERP<br>EIRP | 0.264<br>0.433 | 4M50D7W          |
|          | 10       | QPSK       | 24.85<br>27.00   | ERP<br>EIRP | 0.305<br>0.500 | 9M00G7D          |
|          | 10       | 16QAM      | 24.22<br>26.37   | ERP<br>EIRP | 0.264<br>0.433 | 8M97D7W          |
|          | 15       | QPSK       | 24.95<br>27.10   | ERP<br>EIRP | 0.313<br>0.513 | 13M5G7D          |
|          | 15       | 16QAM      | 24.20<br>26.35   | ERP<br>EIRP | 0.263<br>0.431 | 13M5D7W          |

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| LTE Band  | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|-----------|----------|------------|------------------|------|-------|------------------|
| 26 Part90 | 1.4      | QPSK       | 24.75            | ERP  | 0.299 | 1M10G7D          |
|           | 1.4      | 16QAM      | 24.12            | ERP  | 0.258 | 1M10D7W          |
|           | 3        | QPSK       | 24.77            | ERP  | 0.300 | 2M70G7D          |
|           | 3        | 16QAM      | 24.15            | ERP  | 0.260 | 2M71D7W          |
|           | 5        | QPSK       | 24.80            | ERP  | 0.302 | 4M51G7D          |
|           | 5        | 16QAM      | 24.01            | ERP  | 0.252 | 4M51D7W          |
|           | 10       | QPSK       | 24.81            | ERP  | 0.303 | 8M99G7D          |
|           | 10       | 16QAM      | 23.97            | ERP  | 0.249 | 8M94D7W          |
| 30        | 5        | QPSK       | 23.99            | EIRP | 0.251 | 4M50G7D          |
|           | 5        | 16QAM      | 23.89            | EIRP | 0.245 | 4M50D7W          |
|           | 10       | QPSK       | 23.96            | EIRP | 0.249 | 9M01G7D          |
|           | 10       | 16QAM      | 23.84            | EIRP | 0.242 | 8M96D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|----------|----------|------------|------------------|------|-------|------------------|
| 38       | 5        | QPSK       | 27.96            | EIRP | 0.625 | 4M51G7D          |
|          | 5        | 16QAM      | 27.16            | EIRP | 0.520 | 4M51D7W          |
|          | 10       | QPSK       | 27.95            | EIRP | 0.624 | 8M98G7D          |
|          | 10       | 16QAM      | 27.21            | EIRP | 0.526 | 8M96D7W          |
|          | 15       | QPSK       | 28.11            | EIRP | 0.647 | 13M5G7D          |
|          | 15       | 16QAM      | 27.31            | EIRP | 0.538 | 13M5D7W          |
|          | 20       | QPSK       | 28.11            | EIRP | 0.647 | 17M9G7D          |
|          | 20       | 16QAM      | 27.28            | EIRP | 0.535 | 17M9D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|----------|----------|------------|------------------|------|-------|------------------|
| 41       | 5        | QPSK       | 28.05            | EIRP | 0.638 | 4M50G7D          |
|          | 5        | 16QAM      | 27.26            | EIRP | 0.532 | 4M50D7W          |
|          | 10       | QPSK       | 28.04            | EIRP | 0.637 | 8M98G7D          |
|          | 10       | 16QAM      | 27.26            | EIRP | 0.532 | 8M97D7W          |
|          | 15       | QPSK       | 28.11            | EIRP | 0.647 | 13M5G7D          |
|          | 15       | 16QAM      | 27.27            | EIRP | 0.533 | 13M5D7W          |
|          | 20       | QPSK       | 28.16            | EIRP | 0.655 | 17M9G7D          |
|          | 20       | 16QAM      | 27.29            | EIRP | 0.536 | 17M9D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|----------|----------|------------|------------------|------|-------|------------------|
| 66       | 1.4      | QPSK       | 26.02            | EIRP | 0.400 | 1M10G7D          |
|          | 1.4      | 16QAM      | 25.41            | EIRP | 0.348 | 1M10D7W          |
|          | 3        | QPSK       | 26.09            | EIRP | 0.397 | 2M70G7D          |
|          | 3        | 16QAM      | 25.21            | EIRP | 0.332 | 2M71D7W          |
|          | 5        | QPSK       | 26.08            | EIRP | 0.406 | 4M51G7D          |
|          | 5        | 16QAM      | 25.36            | EIRP | 0.344 | 4M51D7W          |
|          | 10       | QPSK       | 26.18            | EIRP | 0.415 | 9M02G7D          |
|          | 10       | 16QAM      | 25.28            | EIRP | 0.337 | 8M97D7W          |
|          | 15       | QPSK       | 26.26            | EIRP | 0.423 | 13M5G7D          |
|          | 15       | 16QAM      | 25.36            | EIRP | 0.344 | 13M5D7W          |
|          | 20       | QPSK       | 26.30            | EIRP | 0.427 | 18M0G7D          |
|          | 20       | 16QAM      | 25.40            | EIRP | 0.347 | 18M0D7W          |

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## 1.4. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

RSS Gen Issue 5 Apr. 2018

RSS-130-issue 1 Oct. 2013, RSS-132 Issue 3 Jan. 2013,

RSS-133 Issue 6 Jan. 2013, RSS-139 Issue 3 Jul. 2015,

RSS-195 Issue 2 Apr. 2014. RSS-199 Issue 3 Dec. 2016

Note: All test items have been performed and record as per the above standards.

## 1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

Canada Registration Number: 4620A-5

## 1.6. Special Accessories

AC Adapter is used while the test is conducted and there is no other accessory attached. This is the worst case condition.

## 1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

### 2.4. Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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**Note:**

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

|                         | RF cable loss (dB) | Attenuation factor(dB) | offset(dB) |
|-------------------------|--------------------|------------------------|------------|
| Low Band (Below 1GHz)   | 0.4                | 10                     | 10.4       |
| High Band (Above 1 GHz) | 0.8                | 10                     | 10.8       |

## 2.5. Final Amplifier Voltage and Current Information:

| Test Mode              | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| WCDMA B2               | 7.66           | 0.728           |
| WCDMA B5               |                | 0.692           |
| LTE Band 2             |                | 0.670           |
| LTE Band 4             |                | 0.771           |
| LTE Band 5             |                | 0.715           |
| LTE Band 7             |                | 0.679           |
| LTE Band 12            |                | 0.697           |
| LTE Band 13            |                | 0.728           |
| LTE Band 25            |                | 0.708           |
| LTE Band 26            |                | 0.710           |
| LTE Band 26 (Part 90S) |                | 0.701           |
| LTE Band 30            |                | 0.950           |
| LTE Band 38            |                | 0.709           |
| LTE Band 41            |                | 0.699           |
| LTE Band 66            |                | 0.766           |

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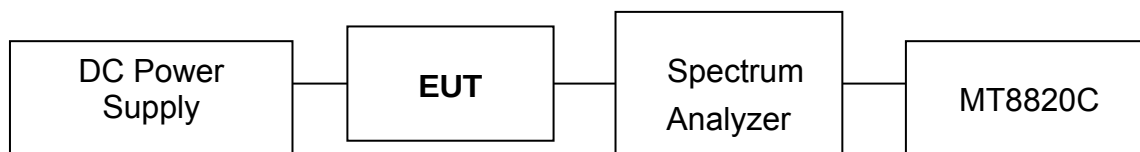
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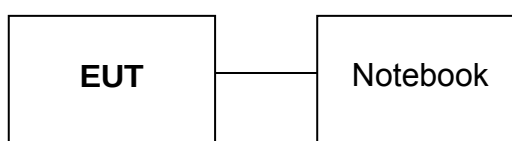
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## 2.6. Configuration of Tested System

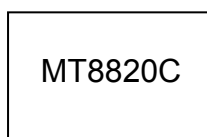
**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**



Remote Side



**Table 2-1 Equipment Used in**

| Item | Equipment                            | Mfr/Brand | Model/<br>Type No. | Series No. | Data Cable | Power Cord  |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 1.   | Universal Radio Communication Tester | Anritsu   | MT8820C            | 6200307563 | shielded   | Un-shielded |
| 2.   | Notebook                             | Lenovo    | L420               | S0011721   | shielded   | Un-shielded |

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### 3. SUMMARY OF TEST RESULTS

| FCC Rules                                                                                                                                 | IC Rules                                                                                                                              | Description Of Test                                                                               | Result    |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------|
| §2.1046(a)                                                                                                                                | N/A                                                                                                                                   | RF Power Output                                                                                   | Compliant |
| §2.1046(a) §22.913(a)(5)<br>§24.232(c) §27.50(a)(3)<br>§27.50(c)(10)<br>§27.50(d)(4) §90.635                                              | §6.8 (RSS-Gen Issue 5)<br>§4.4 (RSS-130)<br>§5.4 (RSS-132)<br>§6.4 (RSS-133)<br>§6.5 (RSS-139)<br>§5.5 (RSS-195)<br>§4.4 (RSS-199)    | ERP/ EIRP measurement                                                                             | Compliant |
| §2.1049(h)                                                                                                                                | §6.7 (RSS-Gen Issue 5)<br>§4.6 (RSS-130)<br>§2.3 (RSS-133)                                                                            | 99% & 26dB<br>Occupied Bandwidth                                                                  | Compliant |
| §2.1051 §22.917(a)<br>§24.238(a) §27.53(g)<br>§27.50(c)(5) §27.53(h)<br>§27.53(m)(4)(6) §90.691                                           | §6.13 (RSS-Gen Issue 5)<br>§4.6 (RSS-130)<br>§5.5 (RSS-132)<br>§6.5 (RSS-133)<br>§6.6 (RSS-139)<br>§5.6.2 (RSS-195)<br>§4.5 (RSS-199) | Out of Band Emissions<br>at Antenna Terminals<br>and Band Edge /<br>Emission mask<br>requirements | Compliant |
| §2.1053 §22.917(a)<br>§24.238(a)<br>§27.53(c)(2),(4)<br>§27.50(c)(5) §27.53(f)<br>§27.53(g) §27.53(h)<br>§27.53(m)(4)<br>§90.691(a)(1)(2) | §6.12 (RSS-Gen Issue 5)<br>§4.6 (RSS-130)<br>§5.5 (RSS-132)<br>§6.5 (RSS-133)<br>§6.6 (RSS-139)<br>§5.6.2 (RSS-195)<br>§4.5 (RSS-199) | Field Strength of<br>Spurious Radiation                                                           | Compliant |
| §27.53(f)                                                                                                                                 | §4.6 (RSS-130)                                                                                                                        | Spurious emission in<br>1559 -1610MHz Band                                                        | Compliant |
| §24.232(d) §27.53(d) (5)<br>§27.50(i) (B)                                                                                                 | §4.4 (RSS-130)<br>§5.4 (RSS-132)<br>§6.4 (RSS-133)<br>§6.5 (RSS-139)<br>§5.5.1 (RSS-195)                                              | Peak to Average Ratio                                                                             | Compliant |
| §2.1055(a)(1) §22.355<br>§24.235 §27.54<br>§90.213                                                                                        | §6.11 (RSS-Gen Issue 5)<br>§4.3 (RSS-130)<br>§5.3 (RSS-132)<br>§6.3 (RSS-133)<br>§6.4 (RSS-139)<br>§5.4 (RSS-195)<br>§4.3 (RSS-199)   | Frequency Stability                                                                               | Compliant |

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## 4. DESCRIPTION OF TEST MODES

### 4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates. EUT set to at the channel with highest output power to investigated spurious emission with stand-up position (H, E1 mode) and lie down position (E2 mode) axis and antenna ports as worst-case scenario. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND                   | RADIATED EMISSION |
|------------------------|-------------------|
| WCDMA/HSPA Band II     | E1 Mode           |
| WCDMA/HSPA Band V      | E1 Mode           |
| LTE Band 2             | E1 Mode           |
| LTE Band 4             | E1 Mode           |
| LTE Band 5             | E1 Mode           |
| LTE Band 7             | E1 Mode           |
| LTE Band 12            | E1 Mode           |
| LTE Band 13            | E1 Mode           |
| LTE Band 25            | E1 Mode           |
| LTE Band 26            | E1 Mode           |
| LTE Band 26 (Part 90S) | E1 Mode           |
| LTE Band 30            | E1 Mode           |
| LTE Bnad 38            | E1 Mode           |
| LTE Band 41            | E1 Mode           |
| LTE Band 66            | E1 Mode           |

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## WCDMA/HSPA MODE

| TEST ITEM             | AVAILABLE CHANNEL            | TESTED CHANNEL                       | MODE                                    |
|-----------------------|------------------------------|--------------------------------------|-----------------------------------------|
| ERP / EIRP            | 4132 to 4233                 | 4132, 4183, 4233                     | WCDMA/HSPA Band V                       |
| EIRP                  | 9262 to 9538                 | 9262, 9400, 9538                     | WCDMA/HSPA Band II                      |
| FREQUENCY STABILITY   | 4132 to 4233<br>9262 to 9538 | 4183<br>9400                         | WCDMA Band II<br>WCDMA Band V           |
| OCCUPIED BANDWIDTH    | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA/HSPA Band II<br>WCDMA/HSPA Band V |
| PEAK TO AVERAGE RATIO | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA/HSPA Band II<br>WCDMA/HSPA Band V |
| BAND EDGE             | 4132 to 4233<br>9262 to 9538 | 4132, 4233<br>9262, 9538             | WCDMA Band II<br>WCDMA Band V           |
| CONDUCTED EMISSION    | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA Band II<br>WCDMA Band V           |
| RADIATED EMISSION     | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA Band II<br>WCDMA Band V           |

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## LTE Band 2 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| EIRP                  | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest         |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STA-BILITY  | 18650 to 19150    | 18900               | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BAND-WIDTH   | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK, 16QAM | Full RB                      |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK, 16QAM | Full RB                      |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | 16QAM       | Full RB                      |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | 16QAM       | Full RB                      |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | 16QAM       | Full RB                      |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | 16QAM       | Full RB                      |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 18607 to 19193    | 18607, 19193        | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 18615 to 19185    | 18615, 19185        | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 18625 to 19175    | 18625, 19175        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 18650 to 19150    | 18650, 19150        | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
|                       | 18675 to 19125    | 18675, 19125        | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offest Full RB |
|                       | 18700 to 19100    | 18700, 19100        | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offest Full RB |
| CONDUCTED EMISSION    | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK        | 1 RB, 0 RB Offest            |

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## LTE Band 4 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| EIRP                  | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest         |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STABILITY   | 20000 to 20350    | 20175               | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BANDWIDTH    | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK, 16QAM | Full RB                      |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK, 16QAM | Full RB                      |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | 16QAM       | Full RB                      |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | 16QAM       | Full RB                      |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | 16QAM       | Full RB                      |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | 16QAM       | Full RB                      |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 19957 to 19393    | 19957, 19393        | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 19965 to 22385    | 19965, 22385        | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 19975 to 20375    | 19975, 20375        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 20000 to 20350    | 20000, 20350        | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
|                       | 20025 to 20325    | 20025, 20325        | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offest Full RB |
|                       | 20050 to 20300    | 20050, 20300        | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offest Full RB |
| CONDUCTED EMISSION    | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK,       | 1 RB, 0 RB Offest            |

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## LTE Band 5 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| ERP / EIRP            | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
| FREQUENCY STABILITY   | 20450 to 20600    | 20525               | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BANDWIDTH    | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | 16QAM       | Full RB                      |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | 16QAM       | Full RB                      |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 20470 to 20643    | 20470, 20643        | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 20415 to 20635    | 20415, 20635        | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 20425 to 20625    | 20425, 20625        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 20450 to 20600    | 20450, 20600        | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
| CONDUCTED EMISSION    | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | 16QAM       | 1 RB, 0 RB Offest            |

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## LTE Band 7 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                                     |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------------------|
| EIRP                  | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest                     |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest                     |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest                     |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest                     |
| FREQUENCY STABILITY   | 20800 to 21400    | 21100               | 10MHz             | QPSK        | Full RB                                  |
| OCCUPIED BAND-WIDTH   | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | QPSK, 16QAM | Full RB                                  |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK, 16QAM | Full RB                                  |
| PEAK TO AVERAGE RATIO | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | 16QAM       | Full RB                                  |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | 16QAM       | Full RB                                  |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | 16QAM       | Full RB                                  |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | 16QAM       | Full RB                                  |
| BAND EDGE             | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | QPSK        | 1 RB/ 0,24 RB Offest<br>Full RB          |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | QPSK        | 1 RB/ 0,49 RB Offest<br>Full RB          |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | QPSK        | 1 RB/ 0,74 RB Offest<br>Full RB          |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK        | 1 RB/ 0,99 RB Offest<br>Full RB          |
| CONDUCTED EMISSION    | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK        | 1 RB, 0 RB Offest                        |
| RADIATED EMISSION     | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK        | 1 RB, 0 RB Offest                        |
| EMISSION MASK         | 20775 to 21425    | 20775, 21100, 21425 | 5MHz              | QPSK        | 1 RB/ 0,24 RB Offest<br>25 RB/ 0 Offset  |
|                       | 20800 to 21400    | 20800, 21100, 21400 | 10MHz             | QPSK        | 1 RB/ 0,49 RB Offest<br>50 RB/ 0 Offset  |
|                       | 20850 to 21375    | 20850, 21100, 21375 | 15MHz             | QPSK        | 1 RB/ 0,74 RB Offest<br>75 RB/ 0 Offset  |
|                       | 20850 to 21350    | 20850, 21100, 21350 | 20MHz             | QPSK        | 1 RB/ 0,99 RB Offest<br>100 RB/ 0 Offset |

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## LTE Band 12 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| ERP / EIRP            | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
| FREQUENCY STABILITY   | 23060 to 23130    | 23095               | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BANDWIDTH    | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | 16QAM       | Full RB                      |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | 16QAM       | Full RB                      |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
| CONDUCTED EMISSION    | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK        | 1 RB, 0 RB Offest            |

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# LTE Band 13 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|-------------|---------------------------------|
| ERP / EIRP            | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest            |
|                       | 23230             | 23230               | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest            |
| FREQUENCY STABILITY   | 23230             | 23230               | 10MHz             | QPSK,       | Full RB                         |
| OCCUPIED BANDWIDTH    | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK, 16QAM | Full RB                         |
|                       | 23230             | 23230               | 10MHz             | QPSK, 16QAM | Full RB                         |
| PEAK TO AVERAGE RATIO | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | 16QAM       | Full RB                         |
|                       | 23230             | 23230               | 10MHz             | 16QAM       | Full RB                         |
| BAND EDGE             | 23205 to 23255    | 23205, 23255        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 23230             | 23230               | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDUCTED EMISSION    | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest               |
|                       | 23230             | 23230               | 10MHz             | QPSK,       | 1 RB, 0 RB Offest               |
| RADIATED EMISSION     | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK        | 1 RB/ 0 RB Offest               |

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# LTE Band 25 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| EIRP                  | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest         |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STA-BILITY  | 18650 to 19150    | 18900               | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BAND-WIDTH   | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK, 16QAM | Full RB                      |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK, 16QAM | Full RB                      |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | 16QAM       | Full RB                      |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | 16QAM       | Full RB                      |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | 16QAM       | Full RB                      |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | 16QAM       | Full RB                      |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 26047 to 26683    | 26047, 26683        | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 26055 to 26675    | 26055, 26675        | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 26065 to 26665    | 26065, 26665        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 26090 to 26640    | 26090, 26640        | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
|                       | 26115 to 26615    | 26115, 26615        | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offest Full RB |
|                       | 26140 to 26590    | 26140, 26590        | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offest Full RB |
| CONDUCTED EMISSION    | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |

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## LTE Band 26 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------|
| ERP / EIRP            | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest         |
| FREQUENCY STA-BILITY  | 26865 to 26965    | 26915               | 15MHz             | QPSK,       | Full RB                      |
| OCCUPIED BAND-WIDTH   | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK, 16QAM | Full RB                      |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | 16QAM       | Full RB                      |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | 16QAM       | Full RB                      |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | 16QAM       | Full RB                      |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK        | 1 RB/ 0,74 RB Offest         |
| CONDUCTED EMISSION    | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK        | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK,       | 1 RB, 0 RB Offest            |

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# LTE Band 26 for 90S MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                                    |
|-----------------------|-------------------|---------------------|-------------------|-------------|-----------------------------------------|
| ERP / EIRP            | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offset                     |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offset                    |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offset                    |
|                       | 26740             | 26740               | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offset                    |
| FREQUENCY STABILITY   | 26697 to 26783    | 26740               | 1.4MHz            | QPSK,       | Full RB                                 |
| OCCUPIED BANDWIDTH    | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK, 16QAM | Full RB                                 |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK, 16QAM | Full RB                                 |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK, 16QAM | Full RB                                 |
|                       | 26740             | 26740               | 10MHz             | QPSK, 16QAM | Full RB                                 |
| PEAK TO AVERAGE RATIO | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | 16QAM       | Full RB                                 |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | 16QAM       | Full RB                                 |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | 16QAM       | Full RB                                 |
|                       | 26740             | 26740               | 10MHz             | 16QAM       | Full RB                                 |
| BAND EDGE             | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB              |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offset Full RB            |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset Full RB            |
|                       | 26740             | 26740               | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset Full RB            |
| CONDUCTED EMISSION    | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offset                       |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK,       | 1 RB, 0 RB Offset                       |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK,       | 1 RB, 0 RB Offset                       |
|                       | 26740             | 26740               | 10MHz             | QPSK,       | 1 RB, 0 RB Offset                       |
| RADIATED EMISSION     | 26740             | 26740               | 10MHz             | QPSK,       | 1 RB, 0 RB Offset                       |
| EMISSION MASK         | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offset<br>6 RB/ 0 Offset   |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offset<br>15 RB/ 0 Offset |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset<br>25 RB/ 0 Offset |
|                       | 26740             | 26740               | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset<br>50 RB/ 0 Offset |

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## LTE Band 30 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                                    |
|-----------------------|-------------------|---------------------|-------------------|-------------|-----------------------------------------|
| ERP                   | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offset                    |
|                       | 27710             | 27710               | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offset                    |
| EIRP Power Density    | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK, 16QAM | 1 RB/ 0 RB Offset                       |
|                       | 27710             | 27710               | 10MHz             | QPSK, 16QAM | 1 RB/ 0 RB Offset                       |
| FREQUENCY STABILITY   | 27710             | 27710               | 10MHz             | QPSK,       | Full RB                                 |
| OCCUPIED BANDWIDTH    | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK, 16QAM | Full RB                                 |
|                       | 27710             | 27710               | 10MHz             | QPSK, 16QAM | Full RB                                 |
| PEAK TO AVERAGE RATIO | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | 16QAM       | Full RB                                 |
|                       | 27710             | 27710               | 10MHz             | 16QAM       | Full RB                                 |
| BAND EDGE             | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset<br>Full RB         |
|                       | 27710             | 27710               | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset<br>Full RB         |
| CONDUCTED EMISSION    | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK,       | 1 RB, 0 RB Offset                       |
|                       | 27710             | 27710               | 10MHz             | QPSK,       | 1 RB, 0 RB Offset                       |
| RADIATED EMISSION     | 27685 to 27735    | 27685, 27710, 27735 | 10MHz             | QPSK        | 1 RB/ 0 RB Offset                       |
| EMISSION MASK         | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset<br>25 RB/ 0 Offset |
|                       | 27710             | 27710               | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset<br>50 RB/ 0 Offset |

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## LTE Band 38 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL       | CHANNEL BANDWIDTH | MODULATION  | MODE                                     |
|-----------------------|-------------------|----------------------|-------------------|-------------|------------------------------------------|
| EIRP                  | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest                     |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest                     |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest                     |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest                     |
| FREQUENCY STABILITY   | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK        | Full RB                                  |
| OCCUPIED BAND-WIDTH   | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | QPSK, 16QAM | Full RB                                  |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | QPSK, 16QAM | Full RB                                  |
| PEAK TO AVERAGE RATIO | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | 16QAM       | Full RB                                  |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | 16QAM       | Full RB                                  |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | 16QAM       | Full RB                                  |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | 16QAM       | Full RB                                  |
| BAND EDGE             | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | QPSK        | 1 RB/ 0,24 RB Offest<br>Full RB          |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK        | 1 RB/ 0,49 RB Offest<br>Full RB          |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK        | 1 RB/ 0,74 RB Offest<br>Full RB          |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | QPSK        | 1 RB/ 0,99 RB Offest<br>Full RB          |
| CONDUCTED EMISSION    | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK        | 1 RB, 0 RB Offest                        |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | QPSK        | 1 RB, 0 RB Offest                        |
| RADIATED EMISSION     | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK        | 1 RB, 0 RB Offest                        |
| EMISSION MASK         | 37775 to 38225    | 37775, 38000, 38225  | 5MHz              | QPSK        | 1 RB/ 0,24 RB Offest<br>25 RB/ 0 Offset  |
|                       | 37800 to 38200    | 37800 , 38000, 38200 | 10MHz             | QPSK        | 1 RB/ 0,49 RB Offest<br>50 RB/ 0 Offset  |
|                       | 37825 to 38175    | 37825 , 38000, 38175 | 15MHz             | QPSK        | 1 RB/ 0,74 RB Offest<br>75 RB/ 0 Offset  |
|                       | 37850 to 38150    | 37850 , 38000, 38150 | 20MHz             | QPSK        | 1 RB/ 0,99 RB Offest<br>100 RB/ 0 Offset |

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## LTE Band 41 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION  | MODE                                     |
|-----------------------|-------------------|---------------------|-------------------|-------------|------------------------------------------|
| EIRP                  | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offset                     |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offset                     |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offset                     |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offset                     |
| FREQUENCY STABILITY   | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,       | Full RB                                  |
| OCCUPIED BAND-WIDTH   | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM | Full RB                                  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM | Full RB                                  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM | Full RB                                  |
| PEAK TO AVERAGE RATIO | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | 16QAM       | Full RB                                  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | 16QAM       | Full RB                                  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | 16QAM       | Full RB                                  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | 16QAM       | Full RB                                  |
| BAND EDGE             | 39675 to 41565    | 39675, 41565        | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset<br>Full RB          |
|                       | 39700 to 41540    | 39700, 41540        | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset<br>Full RB          |
|                       | 39725 to 41515    | 39725, 41515        | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offset<br>Full RB          |
|                       | 39750 to 41490    | 39750, 41490        | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offset<br>Full RB          |
| CONDUCTED EMISSION    | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK,       | 1 RB, 0 RB Offset                        |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,       | 1 RB, 0 RB Offset                        |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK,       | 1 RB, 0 RB Offset                        |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK,       | 1 RB, 0 RB Offset                        |
| EMISSION MASK         | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offset<br>25 RB/ 0 Offset  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offset<br>50 RB/ 0 Offset  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offset<br>75 RB/ 0 Offset  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offset<br>100 RB/ 0 Offset |
| RADIATED EMISSION     | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK        | 1 RB, 0 RB Offset                        |

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# LTE Band 66 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL         | CHANNEL BANDWIDTH | MODULATION  | MODE                         |
|-----------------------|-------------------|------------------------|-------------------|-------------|------------------------------|
| EIRP                  | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | QPSK, 16QAM | 1 RB/ 0,5 RB Offest          |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | QPSK, 16QAM | 1 RB/ 0,14 RB Offest         |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | QPSK, 16QAM | 1 RB/ 0,24 RB Offest         |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | QPSK, 16QAM | 1 RB/ 0,49 RB Offest         |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | QPSK, 16QAM | 1 RB/ 0,74 RB Offest         |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | QPSK, 16QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STABILITY   | 18650 to 19150    | 18900                  | 10MHz             | QPSK,       | Full RB                      |
| OCCUPIED BANDWIDTH    | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | QPSK, 16QAM | Full RB                      |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | QPSK, 16QAM | Full RB                      |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | QPSK, 16QAM | Full RB                      |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | QPSK, 16QAM | Full RB                      |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | QPSK, 16QAM | Full RB                      |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | QPSK, 16QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | 16QAM       | Full RB                      |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | 16QAM       | Full RB                      |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | 16QAM       | Full RB                      |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | 16QAM       | Full RB                      |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | 16QAM       | Full RB                      |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | 16QAM       | Full RB                      |
| BAND EDGE             | 18607 to 19193    | 18607, 19193           | 1.4MHz            | QPSK,       | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 18615 to 19185    | 18615, 19185           | 3MHz              | QPSK,       | 1 RB/ 0,14 RB Offest Full RB |
|                       | 18625 to 19175    | 18625, 19175           | 5MHz              | QPSK,       | 1 RB/ 0,24 RB Offest Full RB |
|                       | 18650 to 19150    | 18650, 19150           | 10MHz             | QPSK,       | 1 RB/ 0,49 RB Offest Full RB |
|                       | 18675 to 19125    | 18675, 19125           | 15MHz             | QPSK,       | 1 RB/ 0,74 RB Offest Full RB |
|                       | 18700 to 19100    | 18700, 19100           | 20MHz             | QPSK,       | 1 RB/ 0,99 RB Offest Full RB |
| CONDUCTED EMISSION    | 18607 to 19193    | 18607, 18900, 19193    | 1.4MHz            | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18615 to 19185    | 18615, 18900, 19185    | 3MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18625 to 19175    | 18625, 18900, 19175    | 5MHz              | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18650 to 19150    | 18650, 18900, 19150    | 10MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18675 to 19125    | 18675, 18900, 19125    | 15MHz             | QPSK,       | 1 RB, 0 RB Offest            |
|                       | 18700 to 19100    | 18700, 18900, 19100    | 20MHz             | QPSK,       | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 18700 to 19100    | 18700, 18900, 19100    | 20MHz             | QPSK        | 1 RB, 0 RB Offest            |

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## 5. MEASUREMENT UNCERTAINTY

| Test Items                                                  | Uncertainty                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------|
| RF Power Output                                             | +/- 1.10 dB                                                                |
| ERP/ EIRP measurement                                       | Vertical Polarization = +/- 4.74dB<br>Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth                                      | +/- 5.19 Hz                                                                |
| Out of Band Emissions at Antenna<br>Terminals and Band Edge | +/- 0.70 dB                                                                |
| Peak to Average Ratio                                       | +/- 0.70 dB                                                                |
| Frequency Stability vs. Temperature                         | +/- 5.19 Hz                                                                |
| Frequency Stability vs. Voltage                             | +/- 5.19 Hz                                                                |
| Temperature                                                 | +/- 0.65 °C                                                                |
| Humidity                                                    | +/- 4.6 %                                                                  |
| DC / AC Power Source                                        | DC= +/- 0.13%, AC= +/- 0.2%                                                |

### Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                              | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                                | 30MHz - 167MHz: +/- 4.22dB |
|                                                                | 167MHz -500MHz: +/- 3.44dB |
|                                                                | 0.5GHz-1GHz: +/- 3.39dB    |
|                                                                | 1GHz - 18GHz: +/- 4.08dB   |
|                                                                | 18GHz - 40GHz: +/- 4.08dB  |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6. DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### Formula:

$$\text{Duty Cycle} = T_{\text{on}} / (T_{\text{on}} + T_{\text{off}})$$

### Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

### Duty Cycle:

|                        | $\Delta 1$ | $\Delta 2$ | Duty Cycle | Duty Cycle (%) | Duty Factor |
|------------------------|------------|------------|------------|----------------|-------------|
| Band38 10M Mid Channel | 3.0000 ms  | 5.0000 ms  | 0.600      | 60.0 %         | 2.22        |
| Band41 10M Mid Channel | 2.9900 ms  | 5.0300 ms  | 0.594      | 59.4 %         | 2.26        |

$$\text{Duty Cycle Factor: } 10^* \log (1/0.600) = 2.22$$

$$\text{Duty Cycle Factor: } 10^* \log (1/0.594) = 2.26$$

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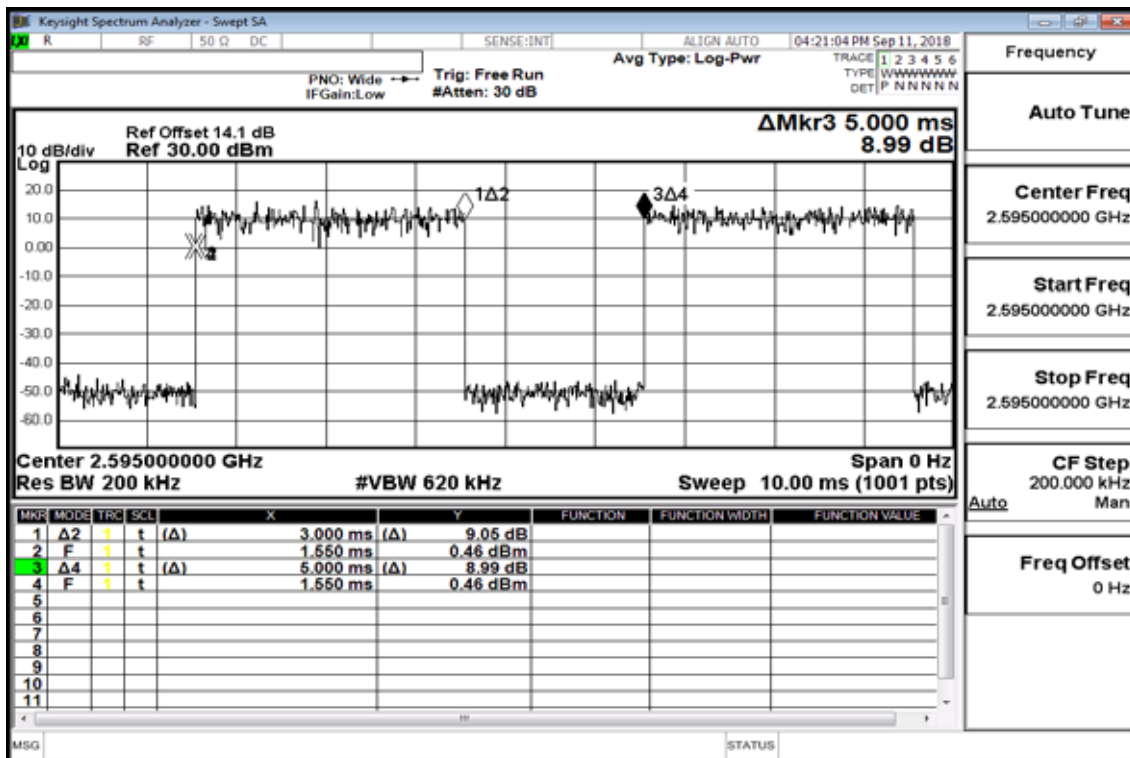
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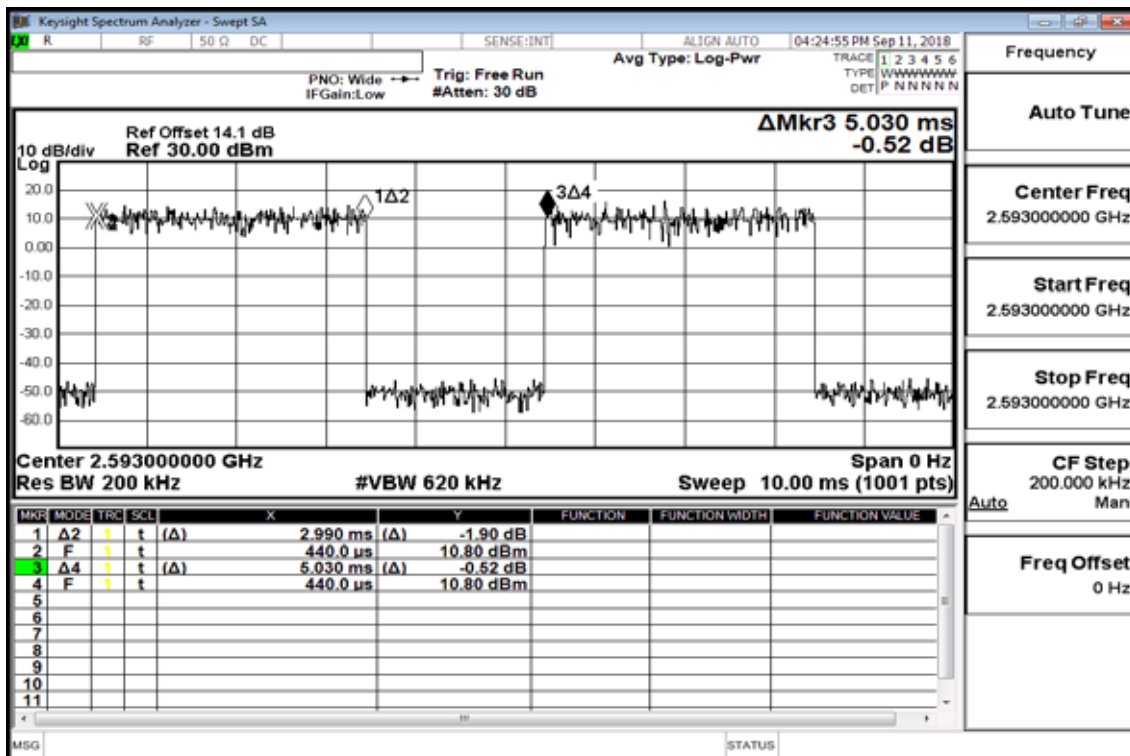


## 6.1. DUTY CYCLE TEST SIGNAL Measurement Result

### LTE B38



### LTE B41



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## 7. MAXMUM OUTPUT POWER

### 7.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

#### ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

According to RSS-130 §4.4

It shall not exceed 5 W for portable equipment or for indoor fixed subscriber equipment.

According to RSS-132, section 5.4.

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W given in SRSP-510.

According to RSS 139 §6.4

The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not exceed 1 watt.

According to RSS-199 §4.4

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 watts.

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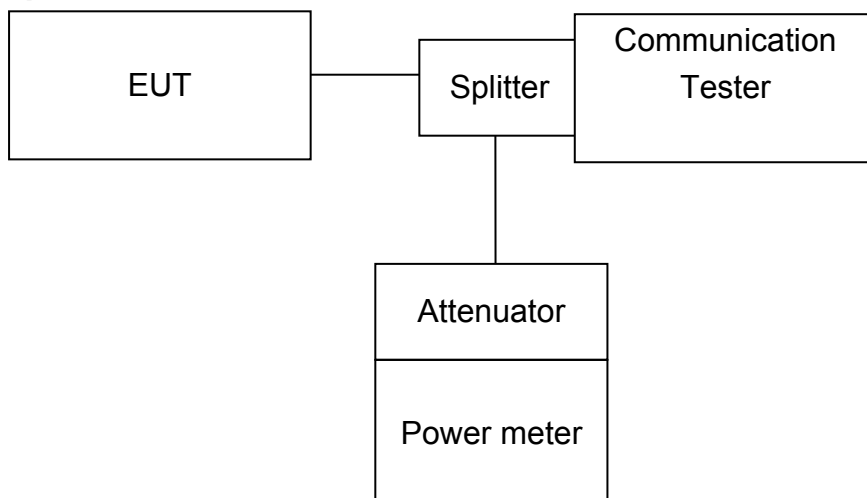
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## 7.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

## 7.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

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# TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

## 7.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |           |              |               |            |            |
|---------------------------------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR       | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                       | Agilent   | N9010A       | MY51440113    | 2018/06/20 | 2019/06/19 |
| Radio Communication Analyser                            | Anritsu   | MT8820C      | 6201107337    | 2018/06/15 | 2019/06/14 |
| DC Power Supply                                         | Agilent   | E3640A       | MY53130054    | 2017/09/04 | 2018/09/03 |
| Attenuator                                              | Marvelous | MVE2213-10   | RF30          | 2017/12/26 | 2018/12/25 |
| Splitter                                                | Woken     | DOM35LW1 A2  | RF36          | 2017/12/26 | 2018/12/25 |

| Conducted Emission (measured at antenna port) Test Site |         |              |               |            |            |
|---------------------------------------------------------|---------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR     | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| DC Power Supply                                         | Agilent | E3640A       | MY53130054    | 2018/09/03 | 2019/09/04 |

**Remark:** Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

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## 7.5. Measurement Result

### RF Conducted Output Power

#### WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

#### Results:

##### WCDMA/HSUPA/HSDPA Band II Result:

| EUT Mode | Freq. (MHz) | CH   | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|------------|-------------|-------------|
| WCDMA    | 1852.4      | 9262 | 22.12                      | 1.09               | 23.21      | 33          | -9.79       |
|          | 1880        | 9400 | 22.2                       | 1.09               | 23.29      | 33          | -9.71       |
|          | 1907.6      | 9538 | 22.05                      | 1.09               | 23.14      | 33          | -9.86       |
| HSDPA    | 1852.4      | 9262 | 21.13                      | 1.09               | 22.22      | 33          | -10.78      |
|          | 1880        | 9400 | 21.23                      | 1.09               | 22.32      | 33          | -10.68      |
|          | 1907.6      | 9538 | 21.18                      | 1.09               | 22.27      | 33          | -10.73      |
| HSUPA    | 1852.4      | 9262 | 21.12                      | 1.09               | 22.21      | 33          | -10.79      |
|          | 1880        | 9400 | 21.22                      | 1.09               | 22.31      | 33          | -10.69      |
|          | 1907.6      | 9538 | 21.74                      | 1.09               | 22.83      | 33          | -10.17      |

##### WCDMA/HSUPA/HSDPA Band V Result:

| EUT Mode | Freq. (MHz) | CH   | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (dBm) | IC EIRP Limit (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|-----------|---------------------|-------------|-------------|
| WCDMA    | 826.4       | 4132 | 23.95                      | 0.16               | 24.11     | 26.26     | 40.6                | 38.5        | -14.39      |
|          | 836.6       | 4183 | 23.89                      | 0.16               | 24.05     | 26.2      | 40.6                | 38.5        | -14.45      |
|          | 846.6       | 4233 | 23.92                      | 0.16               | 24.08     | 26.23     | 40.6                | 38.5        | -14.42      |
| HSDPA    | 826.4       | 4132 | 23.08                      | 0.16               | 23.24     | 25.39     | 40.6                | 38.5        | -15.26      |
|          | 836.6       | 4183 | 22.95                      | 0.16               | 23.11     | 25.26     | 40.6                | 38.5        | -15.39      |
|          | 846.6       | 4233 | 23.09                      | 0.16               | 23.25     | 25.4      | 40.6                | 38.5        | -15.25      |
| HSUPA    | 826.4       | 4132 | 22.88                      | 0.16               | 23.04     | 25.19     | 40.6                | 38.5        | -15.46      |
|          | 836.6       | 4183 | 22.88                      | 0.16               | 23.04     | 25.19     | 40.6                | 38.5        | -15.46      |
|          | 846.6       | 4233 | 22.97                      | 0.16               | 23.13     | 25.28     | 40.6                | 38.5        | -15.37      |

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## HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

## HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{HS}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR<br>(dB)<br>(Note 3) | RMC<br>(Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                     | 12.2          |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                     | 12.2          |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                     | 12.2          |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                     | 12.2          |

**Note: The recommended HSDPA MPRs are implemented as per following sub-tests.**

| Mode     | Sub test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3<br>Limitation (dBm) | Comments |
|----------|----------|-----------------------------|-------|-------|-----------------------------------|----------|
|          |          | 9262                        | 9400  | 9538  |                                   |          |
| HSDPA II | 1        | 20.77                       | 21.34 | 20.35 | 20.3dBm – 25.7dBm                 | Pass     |
|          | 2        | 20.81                       | 21.23 | 20.23 | 20.3dBm – 25.7dBm                 | Pass     |
|          | 3        | 20.05                       | 20.19 | 19.58 | 19.8dBm – 25.7dBm                 | Pass     |
|          | 4        | 20.11                       | 20.28 | 19.55 | 19.8dBm – 25.7dBm                 | Pass     |

| Mode    | Sub test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3<br>Limitation (dBm) | Comments |
|---------|----------|-----------------------------|-------|-------|-----------------------------------|----------|
|         |          | 4132                        | 4183  | 4233  |                                   |          |
| HSDPA V | 1        | 22.87                       | 22.79 | 22.95 | 20.3dBm – 25.7dBm                 | Pass     |
|         | 2        | 21.88                       | 21.83 | 21.99 | 20.3dBm – 25.7dBm                 | Pass     |
|         | 3        | 21.08                       | 21.05 | 21.16 | 19.8dBm – 25.7dBm                 | Pass     |
|         | 4        | 21.00                       | 20.95 | 21.07 | 19.8dBm – 25.7dBm                 | Pass     |

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## HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

### HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ | $\beta_{ec}$ | $\beta_{ed}$                                 | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Code s) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps) |
|----------|----------------|----------------|----------------|-------------------|--------------|--------------|----------------------------------------------|-------------------|-----------------------|---------|----------|----------|--------|------------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15        | 209/225      | 1309/225                                     | 4                 | 1                     | 1.0     | 0.0      | 20       | 75     | 12.2       |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15        | 12/15        | 94/75                                        | 4                 | 1                     | 3.0     | 2.0      | 12       | 67     | 12.2       |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15        | 30/15        | $\beta_{ed1}: 47/15$<br>$\beta_{ed2}: 47/15$ | 4<br>4            | 2                     | 2.0     | 1.0      | 15       | 92     | 12.2       |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15         | 2/15         | 56/75                                        | 4                 | 1                     | 3.0     | 2.0      | 17       | 71     | 12.2       |
| 5        | 15/15 (Note 4) | 15/15 (Note 4) | 64             | 15/15 (Note 4)    | 30/15        | 24/15        | 134/15                                       | 4                 | 1                     | 1.0     | 0.0      | 21       | 81     | 12.2       |

**Note: The recommended HSUPA MPRs are implemented as per following sub-tests.**

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## Results:

| Mode     | Sub test | Avg. Power (dBm) |       |       | Power Class 3 Limitation (dBm) | Comments |
|----------|----------|------------------|-------|-------|--------------------------------|----------|
|          |          | Channel          |       |       |                                |          |
|          |          | 9262             | 9400  | 9538  |                                |          |
| HSUPA II | 1        | 20.37            | 21.10 | 21.57 | 18.8dBm – 25.7dBm              | Pass     |
|          | 2        | 20.15            | 21.42 | 22.06 | 16.8dBm – 25.7dBm              | Pass     |
|          | 3        | 20.37            | 21.92 | 21.49 | 17.8dBm – 25.7dBm              | Pass     |
|          | 4        | 20.19            | 21.03 | 21.41 | 16.8dBm – 25.7dBm              | Pass     |
|          | 5        | 20.14            | 21.06 | 21.33 | 18.8dBm – 25.7dBm              | Pass     |

| Mode    | Sub test | Avg. Power (dBm) |       |       | Power Class 3 Limitation (dBm) | Comments |
|---------|----------|------------------|-------|-------|--------------------------------|----------|
|         |          | Channel          |       |       |                                |          |
|         |          | 4132             | 4183  | 4233  |                                |          |
| HSUPA V | 1        | 22.87            | 22.86 | 22.98 | 18.8dBm – 25.7dBm              | Pass     |
|         | 2        | 22.23            | 22.27 | 22.37 | 16.8dBm – 25.7dBm              | Pass     |
|         | 3        | 22.75            | 22.80 | 22.95 | 17.8dBm – 25.7dBm              | Pass     |
|         | 4        | 22.81            | 22.76 | 22.82 | 16.8dBm – 25.7dBm              | Pass     |
|         | 5        | 22.83            | 22.78 | 22.82 | 18.8dBm – 25.7dBm              | Pass     |

## WCDMA/HSDPA/HSUPA band II, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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# LTE Result:

LTE Band 2

Antenna gain (dBi) 1.09

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                 | 18607      | 1850.7          | QPSK       | 1       | 0         | 21.98                   | 23.07              | 33               | -9.93       |
|                                                     |            |                 |            | 1       | 5         | 21.97                   | 23.06              | 33               | -9.94       |
|                                                     |            |                 |            | 3       | 2         | 22.10                   | 23.19              | 33               | -9.81       |
|                                                     |            |                 |            | 6       | 0         | 21.06                   | 22.15              | 33               | -10.85      |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 21.94                   | 23.03              | 33               | -9.97       |
|                                                     |            |                 |            | 1       | 5         | 21.95                   | 23.04              | 33               | -9.96       |
|                                                     |            |                 |            | 3       | 2         | 22.04                   | 23.13              | 33               | -9.87       |
|                                                     |            |                 |            | 6       | 0         | 20.97                   | 22.06              | 33               | -10.94      |
|                                                     | 19193      | 1909.3          | QPSK       | 1       | 0         | 21.88                   | 22.97              | 33               | -10.03      |
|                                                     |            |                 |            | 1       | 5         | 21.86                   | 22.95              | 33               | -10.05      |
|                                                     |            |                 |            | 3       | 2         | 21.95                   | 23.04              | 33               | -9.96       |
|                                                     |            |                 |            | 6       | 0         | 20.87                   | 21.96              | 33               | -11.04      |
|                                                     | 18607      | 1850.7          | 16QAM      | 1       | 0         | 21.16                   | 22.25              | 33               | -10.75      |
|                                                     |            |                 |            | 1       | 5         | 21.15                   | 22.24              | 33               | -10.76      |
|                                                     |            |                 |            | 3       | 2         | 21.00                   | 22.09              | 33               | -10.91      |
|                                                     |            |                 |            | 6       | 0         | 20.07                   | 21.16              | 33               | -11.84      |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 21.16                   | 22.25              | 33               | -10.75      |
|                                                     |            |                 |            | 1       | 5         | 21.10                   | 22.19              | 33               | -10.81      |
|                                                     |            |                 |            | 3       | 2         | 21.06                   | 22.15              | 33               | -10.85      |
|                                                     |            |                 |            | 6       | 0         | 20.06                   | 21.15              | 33               | -11.85      |
|                                                     | 19193      | 1909.3          | 16QAM      | 1       | 0         | 21.33                   | 22.42              | 33               | -10.58      |
|                                                     |            |                 |            | 1       | 5         | 21.31                   | 22.40              | 33               | -10.6       |
|                                                     |            |                 |            | 3       | 2         | 20.93                   | 22.02              | 33               | -10.98      |
|                                                     |            |                 |            | 6       | 0         | 19.87                   | 20.96              | 33               | -12.04      |

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2\_Uplink frequency band : 1850 to 1910 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 3         | 18615      | 1851.5          | QPSK       | 1       | 0         | 22.15                   | 23.24              | 33               | -9.76       |
|           |            |                 |            | 1       | 14        | 22.09                   | 23.18              | 33               | -9.82       |
|           |            |                 |            | 8       | 4         | 21.12                   | 22.21              | 33               | -10.79      |
|           |            |                 |            | 15      | 0         | 21.08                   | 22.17              | 33               | -10.83      |
|           | 18900      | 1880            | QPSK       | 1       | 0         | 22.05                   | 23.14              | 33               | -9.86       |
|           |            |                 |            | 1       | 14        | 22.00                   | 23.09              | 33               | -9.91       |
|           |            |                 |            | 8       | 4         | 21.05                   | 22.14              | 33               | -10.86      |
|           |            |                 |            | 15      | 0         | 21.02                   | 22.11              | 33               | -10.89      |
|           | 19185      | 1908.5          | QPSK       | 1       | 0         | 21.96                   | 23.05              | 33               | -9.95       |
|           |            |                 |            | 1       | 14        | 21.92                   | 23.01              | 33               | -9.99       |
|           |            |                 |            | 8       | 4         | 20.96                   | 22.05              | 33               | -10.95      |
|           |            |                 |            | 15      | 0         | 20.97                   | 22.06              | 33               | -10.94      |
|           | 18615      | 1851.5          | 16QAM      | 1       | 0         | 21.31                   | 22.40              | 33               | -10.6       |
|           |            |                 |            | 1       | 14        | 21.28                   | 22.37              | 33               | -10.63      |
|           |            |                 |            | 8       | 4         | 20.07                   | 21.16              | 33               | -11.84      |
|           |            |                 |            | 15      | 0         | 20.14                   | 21.23              | 33               | -11.77      |
|           | 18900      | 1880            | 16QAM      | 1       | 0         | 21.33                   | 22.42              | 33               | -10.58      |
|           |            |                 |            | 1       | 14        | 21.30                   | 22.39              | 33               | -10.61      |
|           |            |                 |            | 8       | 4         | 20.10                   | 21.19              | 33               | -11.81      |
|           |            |                 |            | 15      | 0         | 20.00                   | 21.09              | 33               | -11.91      |
|           | 19185      | 1908.5          | 16QAM      | 1       | 0         | 21.45                   | 22.54              | 33               | -10.46      |
|           |            |                 |            | 1       | 14        | 21.25                   | 22.34              | 33               | -10.66      |
|           |            |                 |            | 8       | 4         | 20.10                   | 21.19              | 33               | -11.81      |
|           |            |                 |            | 15      | 0         | 20.12                   | 21.21              | 33               | -11.79      |

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2\_Uplink frequency band : 1850 to 1910 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 18625      | 1852.5          | QPSK       | 1       | 0         | 22.17                   | 23.26              | 33               | -9.74       |
|           |            |                 |            | 1       | 24        | 22.08                   | 23.17              | 33               | -9.83       |
|           |            |                 |            | 12      | 6         | 21.15                   | 22.24              | 33               | -10.76      |
|           |            |                 |            | 25      | 0         | 21.09                   | 22.18              | 33               | -10.82      |
|           | 18900      | 1880            | QPSK       | 1       | 0         | 22.09                   | 23.18              | 33               | -9.82       |
|           |            |                 |            | 1       | 24        | 22.02                   | 23.11              | 33               | -9.89       |
|           |            |                 |            | 12      | 6         | 21.08                   | 22.17              | 33               | -10.83      |
|           |            |                 |            | 25      | 0         | 21.01                   | 22.10              | 33               | -10.9       |
|           | 19175      | 1907.5          | QPSK       | 1       | 0         | 22.01                   | 23.10              | 33               | -9.9        |
|           |            |                 |            | 1       | 24        | 21.94                   | 23.03              | 33               | -9.97       |
|           |            |                 |            | 12      | 6         | 20.97                   | 22.06              | 33               | -10.94      |
|           |            |                 |            | 25      | 0         | 20.93                   | 22.02              | 33               | -10.98      |
|           | 18625      | 1852.5          | 16QAM      | 1       | 0         | 21.32                   | 22.41              | 33               | -10.59      |
|           |            |                 |            | 1       | 24        | 21.20                   | 22.29              | 33               | -10.71      |
|           |            |                 |            | 12      | 6         | 20.12                   | 21.21              | 33               | -11.79      |
|           |            |                 |            | 25      | 0         | 20.05                   | 21.14              | 33               | -11.86      |
|           | 18900      | 1880            | 16QAM      | 1       | 0         | 21.48                   | 22.57              | 33               | -10.43      |
|           |            |                 |            | 1       | 24        | 21.46                   | 22.55              | 33               | -10.45      |
|           |            |                 |            | 12      | 6         | 20.12                   | 21.21              | 33               | -11.79      |
|           |            |                 |            | 25      | 0         | 20.07                   | 21.16              | 33               | -11.84      |
|           | 19175      | 1907.5          | 16QAM      | 1       | 0         | 21.37                   | 22.46              | 33               | -10.54      |
|           |            |                 |            | 1       | 24        | 21.28                   | 22.37              | 33               | -10.63      |
|           |            |                 |            | 12      | 6         | 20.04                   | 21.13              | 33               | -11.87      |
|           |            |                 |            | 25      | 0         | 19.99                   | 21.08              | 33               | -11.92      |

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2\_Uplink frequency band : 1850 to 1910 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 18650      | 1855            | QPSK       | 1       | 0         | 22.09                   | 23.18              | 33               | -9.82       |
|           |            |                 |            | 1       | 24        | 21.96                   | 23.05              | 33               | -9.95       |
|           |            |                 |            | 12      | 6         | 21.11                   | 22.20              | 33               | -10.8       |
|           |            |                 |            | 25      | 0         | 21.04                   | 22.13              | 33               | -10.87      |
|           | 18900      | 1880            | QPSK       | 1       | 0         | 22.11                   | 23.20              | 33               | -9.8        |
|           |            |                 |            | 1       | 24        | 21.99                   | 23.08              | 33               | -9.92       |
|           |            |                 |            | 12      | 6         | 21.10                   | 22.19              | 33               | -10.81      |
|           |            |                 |            | 25      | 0         | 21.02                   | 22.11              | 33               | -10.89      |
|           | 19150      | 1905            | QPSK       | 1       | 0         | 21.98                   | 23.07              | 33               | -9.93       |
|           |            |                 |            | 1       | 24        | 21.88                   | 22.97              | 33               | -10.03      |
|           |            |                 |            | 12      | 6         | 21.01                   | 22.10              | 33               | -10.9       |
|           |            |                 |            | 25      | 0         | 21.01                   | 22.10              | 33               | -10.9       |
|           | 18650      | 1855            | 16QAM      | 1       | 0         | 21.47                   | 22.56              | 33               | -10.44      |
|           |            |                 |            | 1       | 24        | 21.43                   | 22.52              | 33               | -10.48      |
|           |            |                 |            | 12      | 6         | 20.10                   | 21.19              | 33               | -11.81      |
|           |            |                 |            | 25      | 0         | 20.10                   | 21.19              | 33               | -11.81      |
|           | 18900      | 1880            | 16QAM      | 1       | 0         | 21.34                   | 22.43              | 33               | -10.57      |
|           |            |                 |            | 1       | 24        | 21.11                   | 22.20              | 33               | -10.8       |
|           |            |                 |            | 12      | 6         | 20.14                   | 21.23              | 33               | -11.77      |
|           |            |                 |            | 25      | 0         | 20.10                   | 21.19              | 33               | -11.81      |
|           | 19150      | 1905            | 16QAM      | 1       | 0         | 21.11                   | 22.20              | 33               | -10.8       |
|           |            |                 |            | 1       | 24        | 21.02                   | 22.11              | 33               | -10.89      |
|           |            |                 |            | 12      | 6         | 20.06                   | 21.15              | 33               | -11.85      |
|           |            |                 |            | 25      | 0         | 20.00                   | 21.09              | 33               | -11.91      |

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2\_Uplink frequency band : 1850 to 1910 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 18675      | 1857.5          | QPSK       | 1       | 0         | 22.23                   | 23.32              | 33               | -9.68       |
|           |            |                 |            | 1       | 74        | 21.98                   | 23.07              | 33               | -9.93       |
|           |            |                 |            | 36      | 19        | 21.09                   | 22.18              | 33               | -10.82      |
|           |            |                 |            | 75      | 0         | 21.11                   | 22.20              | 33               | -10.8       |
|           | 18900      | 1880            | QPSK       | 1       | 0         | 22.22                   | 23.31              | 33               | -9.69       |
|           |            |                 |            | 1       | 74        | 22.00                   | 23.09              | 33               | -9.91       |
|           |            |                 |            | 36      | 19        | 21.09                   | 22.18              | 33               | -10.82      |
|           |            |                 |            | 75      | 0         | 21.11                   | 22.20              | 33               | -10.8       |
|           | 19125      | 1902.5          | QPSK       | 1       | 0         | 22.18                   | 23.27              | 33               | -9.73       |
|           |            |                 |            | 1       | 74        | 21.97                   | 23.06              | 33               | -9.94       |
|           |            |                 |            | 36      | 19        | 21.03                   | 22.12              | 33               | -10.88      |
|           |            |                 |            | 75      | 0         | 21.03                   | 22.12              | 33               | -10.88      |
|           | 18675      | 1857.5          | 16QAM      | 1       | 0         | 21.48                   | 22.57              | 33               | -10.43      |
|           |            |                 |            | 1       | 74        | 21.47                   | 22.56              | 33               | -10.44      |
|           |            |                 |            | 36      | 19        | 20.14                   | 21.23              | 33               | -11.77      |
|           |            |                 |            | 75      | 0         | 20.13                   | 21.22              | 33               | -11.78      |
|           | 18900      | 1880            | 16QAM      | 1       | 0         | 21.39                   | 22.48              | 33               | -10.52      |
|           |            |                 |            | 1       | 74        | 21.17                   | 22.26              | 33               | -10.74      |
|           |            |                 |            | 36      | 19        | 20.09                   | 21.18              | 33               | -11.82      |
|           |            |                 |            | 75      | 0         | 20.10                   | 21.19              | 33               | -11.81      |
|           | 19125      | 1902.5          | 16QAM      | 1       | 0         | 21.42                   | 22.51              | 33               | -10.49      |
|           |            |                 |            | 1       | 74        | 21.27                   | 22.36              | 33               | -10.64      |
|           |            |                 |            | 36      | 19        | 20.05                   | 21.14              | 33               | -11.86      |
|           |            |                 |            | 75      | 0         | 20.06                   | 21.15              | 33               | -11.85      |

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2\_Uplink frequency band : 1850 to 1910 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 20        | 18700      | 1860            | QPSK       | 1       | 0         | 22.26                   | 23.35              | 33               | -9.65       |
|           |            |                 |            | 1       | 99        | 21.92                   | 23.01              | 33               | -9.99       |
|           |            |                 |            | 50      | 25        | 21.13                   | 22.22              | 33               | -10.78      |
|           |            |                 |            | 100     | 0         | 21.09                   | 22.18              | 33               | -10.82      |
|           | 18900      | 1880            | QPSK       | 1       | 0         | 22.28                   | 23.37              | 33               | -9.63       |
|           |            |                 |            | 1       | 99        | 21.98                   | 23.07              | 33               | -9.93       |
|           |            |                 |            | 50      | 25        | 21.10                   | 22.19              | 33               | -10.81      |
|           |            |                 |            | 100     | 0         | 21.14                   | 22.23              | 33               | -10.77      |
|           | 19100      | 1900            | QPSK       | 1       | 0         | 22.16                   | 23.25              | 33               | -9.75       |
|           |            |                 |            | 1       | 99        | 21.92                   | 23.01              | 33               | -9.99       |
|           |            |                 |            | 50      | 25        | 21.03                   | 22.12              | 33               | -10.88      |
|           |            |                 |            | 100     | 0         | 21.06                   | 22.15              | 33               | -10.85      |
|           | 18700      | 1860            | 16QAM      | 1       | 0         | 21.24                   | 22.33              | 33               | -10.67      |
|           |            |                 |            | 1       | 99        | 20.95                   | 22.04              | 33               | -10.96      |
|           |            |                 |            | 50      | 25        | 20.15                   | 21.24              | 33               | -11.76      |
|           |            |                 |            | 100     | 0         | 20.06                   | 21.15              | 33               | -11.85      |
|           | 18900      | 1880            | 16QAM      | 1       | 0         | 21.36                   | 22.45              | 33               | -10.55      |
|           |            |                 |            | 1       | 99        | 21.08                   | 22.17              | 33               | -10.83      |
|           |            |                 |            | 50      | 25        | 20.05                   | 21.14              | 33               | -11.86      |
|           |            |                 |            | 100     | 0         | 20.08                   | 21.17              | 33               | -11.83      |
|           | 19100      | 1900            | 16QAM      | 1       | 0         | 21.36                   | 22.45              | 33               | -10.55      |
|           |            |                 |            | 1       | 99        | 21.31                   | 22.40              | 33               | -10.6       |
|           |            |                 |            | 50      | 25        | 20.06                   | 21.15              | 33               | -11.85      |
|           |            |                 |            | 100     | 0         | 20.03                   | 21.12              | 33               | -11.88      |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 1.4       | 19957      | 1710.7          | QPSK       | 1       | 0         | 23.92                   | 25.84              | 30               | -4.16       |
|           |            |                 |            | 1       | 5         | 23.91                   | 25.83              | 30               | -4.17       |
|           |            |                 |            | 3       | 2         | 23.96                   | 25.88              | 30               | -4.12       |
|           |            |                 |            | 6       | 0         | 22.89                   | 24.81              | 30               | -5.19       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.98                   | 25.90              | 30               | -4.1        |
|           |            |                 |            | 1       | 5         | 23.96                   | 25.88              | 30               | -4.12       |
|           |            |                 |            | 3       | 2         | 24.03                   | 25.95              | 30               | -4.05       |
|           |            |                 |            | 6       | 0         | 22.96                   | 24.88              | 30               | -5.12       |
|           | 20393      | 1754.3          | QPSK       | 1       | 0         | 24.00                   | 25.92              | 30               | -4.08       |
|           |            |                 |            | 1       | 5         | 23.98                   | 25.90              | 30               | -4.1        |
|           |            |                 |            | 3       | 2         | 24.08                   | 26.00              | 30               | -4          |
|           |            |                 |            | 6       | 0         | 23.04                   | 24.96              | 30               | -5.04       |
|           | 19957      | 1710.7          | 16QAM      | 1       | 0         | 23.12                   | 25.04              | 30               | -4.96       |
|           |            |                 |            | 1       | 5         | 23.24                   | 25.16              | 30               | -4.84       |
|           |            |                 |            | 3       | 2         | 23.03                   | 24.95              | 30               | -5.05       |
|           |            |                 |            | 6       | 0         | 21.99                   | 23.91              | 30               | -6.09       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.21                   | 25.13              | 30               | -4.87       |
|           |            |                 |            | 1       | 5         | 23.33                   | 25.25              | 30               | -4.75       |
|           |            |                 |            | 3       | 2         | 23.05                   | 24.97              | 30               | -5.03       |
|           |            |                 |            | 6       | 0         | 22.14                   | 24.06              | 30               | -5.94       |
|           | 20393      | 1754.3          | 16QAM      | 1       | 0         | 23.26                   | 25.18              | 30               | -4.82       |
|           |            |                 |            | 1       | 5         | 23.20                   | 25.12              | 30               | -4.88       |
|           |            |                 |            | 3       | 2         | 23.12                   | 25.04              | 30               | -4.96       |
|           |            |                 |            | 6       | 0         | 22.10                   | 24.02              | 30               | -5.98       |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 3         | 19965      | 1711.5          | QPSK       | 1       | 0         | 23.96                   | 25.88              | 30               | -4.12       |
|           |            |                 |            | 1       | 14        | 23.87                   | 25.79              | 30               | -4.21       |
|           |            |                 |            | 8       | 4         | 23.00                   | 24.92              | 30               | -5.08       |
|           |            |                 |            | 15      | 0         | 23.02                   | 24.94              | 30               | -5.06       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 24.04                   | 25.96              | 30               | -4.04       |
|           |            |                 |            | 1       | 14        | 24.03                   | 25.95              | 30               | -4.05       |
|           |            |                 |            | 8       | 4         | 23.13                   | 25.05              | 30               | -4.95       |
|           |            |                 |            | 15      | 0         | 23.07                   | 24.99              | 30               | -5.01       |
|           | 20385      | 1753.5          | QPSK       | 1       | 0         | 24.11                   | 26.03              | 30               | -3.97       |
|           |            |                 |            | 1       | 14        | 24.05                   | 25.97              | 30               | -4.03       |
|           |            |                 |            | 8       | 4         | 23.15                   | 25.07              | 30               | -4.93       |
|           |            |                 |            | 15      | 0         | 23.13                   | 25.05              | 30               | -4.95       |
|           | 19965      | 1711.5          | 16QAM      | 1       | 0         | 22.99                   | 24.91              | 30               | -5.09       |
|           |            |                 |            | 1       | 14        | 22.91                   | 24.83              | 30               | -5.17       |
|           |            |                 |            | 8       | 4         | 22.10                   | 24.02              | 30               | -5.98       |
|           |            |                 |            | 15      | 0         | 22.01                   | 23.93              | 30               | -6.07       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.21                   | 25.13              | 30               | -4.87       |
|           |            |                 |            | 1       | 14        | 23.25                   | 25.17              | 30               | -4.83       |
|           |            |                 |            | 8       | 4         | 22.17                   | 24.09              | 30               | -5.91       |
|           |            |                 |            | 15      | 0         | 22.08                   | 24.00              | 30               | -6          |
|           | 20385      | 1753.5          | 16QAM      | 1       | 0         | 23.49                   | 25.41              | 30               | -4.59       |
|           |            |                 |            | 1       | 14        | 23.43                   | 25.35              | 30               | -4.65       |
|           |            |                 |            | 8       | 4         | 22.17                   | 24.09              | 30               | -5.91       |
|           |            |                 |            | 15      | 0         | 22.20                   | 24.12              | 30               | -5.88       |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 19975      | 1712.5          | QPSK       | 1       | 0         | 24.05                   | 25.97              | 30               | -4.03       |
|           |            |                 |            | 1       | 24        | 23.99                   | 25.91              | 30               | -4.09       |
|           |            |                 |            | 12      | 6         | 23.01                   | 24.93              | 30               | -5.07       |
|           |            |                 |            | 25      | 0         | 22.99                   | 24.91              | 30               | -5.09       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 24.10                   | 26.02              | 30               | -3.98       |
|           |            |                 |            | 1       | 24        | 24.03                   | 25.95              | 30               | -4.05       |
|           |            |                 |            | 12      | 6         | 23.10                   | 25.02              | 30               | -4.98       |
|           |            |                 |            | 25      | 0         | 23.06                   | 24.98              | 30               | -5.02       |
|           | 20375      | 1752.5          | QPSK       | 1       | 0         | 24.08                   | 26.00              | 30               | -4          |
|           |            |                 |            | 1       | 24        | 24.02                   | 25.94              | 30               | -4.06       |
|           |            |                 |            | 12      | 6         | 23.16                   | 25.08              | 30               | -4.92       |
|           |            |                 |            | 25      | 0         | 23.15                   | 25.07              | 30               | -4.93       |
|           | 19975      | 1712.5          | 16QAM      | 1       | 0         | 23.18                   | 25.10              | 30               | -4.9        |
|           |            |                 |            | 1       | 24        | 23.19                   | 25.11              | 30               | -4.89       |
|           |            |                 |            | 12      | 6         | 22.07                   | 23.99              | 30               | -6.01       |
|           |            |                 |            | 25      | 0         | 22.01                   | 23.93              | 30               | -6.07       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 1       | 24        | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 12      | 6         | 22.07                   | 23.99              | 30               | -6.01       |
|           |            |                 |            | 25      | 0         | 22.07                   | 23.99              | 30               | -6.01       |
|           | 20375      | 1752.5          | 16QAM      | 1       | 0         | 23.49                   | 25.41              | 30               | -4.59       |
|           |            |                 |            | 1       | 24        | 23.26                   | 25.18              | 30               | -4.82       |
|           |            |                 |            | 12      | 6         | 22.25                   | 24.17              | 30               | -5.83       |
|           |            |                 |            | 25      | 0         | 22.21                   | 24.13              | 30               | -5.87       |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 20000      | 1715            | QPSK       | 1       | 0         | 24.04                   | 25.96              | 30               | -4.04       |
|           |            |                 |            | 1       | 24        | 23.83                   | 25.75              | 30               | -4.25       |
|           |            |                 |            | 12      | 6         | 23.04                   | 24.96              | 30               | -5.04       |
|           |            |                 |            | 25      | 0         | 23.02                   | 24.94              | 30               | -5.06       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 24.11                   | 26.03              | 30               | -3.97       |
|           |            |                 |            | 1       | 24        | 23.97                   | 25.89              | 30               | -4.11       |
|           |            |                 |            | 12      | 6         | 23.11                   | 25.03              | 30               | -4.97       |
|           |            |                 |            | 25      | 0         | 23.08                   | 25.00              | 30               | -5          |
|           | 20375      | 1750            | QPSK       | 1       | 0         | 24.25                   | 26.17              | 30               | -3.83       |
|           |            |                 |            | 1       | 24        | 24.03                   | 25.95              | 30               | -4.05       |
|           |            |                 |            | 12      | 6         | 23.20                   | 25.12              | 30               | -4.88       |
|           |            |                 |            | 25      | 0         | 23.17                   | 25.09              | 30               | -4.91       |
|           | 20000      | 1715            | 16QAM      | 1       | 0         | 23.07                   | 24.99              | 30               | -5.01       |
|           |            |                 |            | 1       | 24        | 22.88                   | 24.80              | 30               | -5.2        |
|           |            |                 |            | 12      | 6         | 22.05                   | 23.97              | 30               | -6.03       |
|           |            |                 |            | 25      | 0         | 22.00                   | 23.92              | 30               | -6.08       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.30                   | 25.22              | 30               | -4.78       |
|           |            |                 |            | 1       | 24        | 23.13                   | 25.05              | 30               | -4.95       |
|           |            |                 |            | 12      | 6         | 22.10                   | 24.02              | 30               | -5.98       |
|           |            |                 |            | 25      | 0         | 22.08                   | 24.00              | 30               | -6          |
|           | 20375      | 1750            | 16QAM      | 1       | 0         | 23.44                   | 25.36              | 30               | -4.64       |
|           |            |                 |            | 1       | 24        | 23.47                   | 25.39              | 30               | -4.61       |
|           |            |                 |            | 12      | 6         | 22.26                   | 24.18              | 30               | -5.82       |
|           |            |                 |            | 25      | 0         | 22.25                   | 24.17              | 30               | -5.83       |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 20025      | 1717.5          | QPSK       | 1       | 0         | 24.19                   | 26.11              | 30               | -3.89       |
|           |            |                 |            | 1       | 74        | 23.95                   | 25.87              | 30               | -4.13       |
|           |            |                 |            | 36      | 19        | 22.99                   | 24.91              | 30               | -5.09       |
|           |            |                 |            | 75      | 0         | 23.06                   | 24.98              | 30               | -5.02       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 24.24                   | 26.16              | 30               | -3.84       |
|           |            |                 |            | 1       | 74        | 24.01                   | 25.93              | 30               | -4.07       |
|           |            |                 |            | 36      | 19        | 23.15                   | 25.07              | 30               | -4.93       |
|           |            |                 |            | 75      | 0         | 23.15                   | 25.07              | 30               | -4.93       |
|           | 20325      | 1747.5          | QPSK       | 1       | 0         | 24.39                   | 26.31              | 30               | -3.69       |
|           |            |                 |            | 1       | 74        | 24.07                   | 25.99              | 30               | -4.01       |
|           |            |                 |            | 36      | 19        | 23.23                   | 25.15              | 30               | -4.85       |
|           |            |                 |            | 75      | 0         | 23.20                   | 25.12              | 30               | -4.88       |
|           | 20025      | 1717.5          | 16QAM      | 1       | 0         | 23.35                   | 25.27              | 30               | -4.73       |
|           |            |                 |            | 1       | 74        | 23.15                   | 25.07              | 30               | -4.93       |
|           |            |                 |            | 36      | 19        | 22.03                   | 23.95              | 30               | -6.05       |
|           |            |                 |            | 75      | 0         | 22.13                   | 24.05              | 30               | -5.95       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.39                   | 25.31              | 30               | -4.69       |
|           |            |                 |            | 1       | 74        | 23.36                   | 25.28              | 30               | -4.72       |
|           |            |                 |            | 36      | 19        | 22.14                   | 24.06              | 30               | -5.94       |
|           |            |                 |            | 75      | 0         | 22.11                   | 24.03              | 30               | -5.97       |
|           | 20325      | 1747.5          | 16QAM      | 1       | 0         | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 1       | 74        | 23.25                   | 25.17              | 30               | -4.83       |
|           |            |                 |            | 36      | 19        | 22.22                   | 24.14              | 30               | -5.86       |
|           |            |                 |            | 75      | 0         | 22.19                   | 24.11              | 30               | -5.89       |

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4\_Uplink frequency band : 1710 to 1755 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 20        | 20050      | 1720            | QPSK       | 1       | 0         | 24.18                   | 26.10              | 30               | -3.9        |
|           |            |                 |            | 1       | 99        | 23.85                   | 25.77              | 30               | -4.23       |
|           |            |                 |            | 50      | 25        | 23.04                   | 24.96              | 30               | -5.04       |
|           |            |                 |            | 100     | 0         | 23.06                   | 24.98              | 30               | -5.02       |
|           | 20175      | 1732.5          | QPSK       | 1       | 0         | 24.28                   | 26.20              | 30               | -3.8        |
|           |            |                 |            | 1       | 99        | 23.96                   | 25.88              | 30               | -4.12       |
|           |            |                 |            | 50      | 25        | 23.13                   | 25.05              | 30               | -4.95       |
|           |            |                 |            | 100     | 0         | 23.15                   | 25.07              | 30               | -4.93       |
|           | 20300      | 1745            | QPSK       | 1       | 0         | 24.40                   | 26.32              | 30               | -3.68       |
|           |            |                 |            | 1       | 99        | 24.03                   | 25.95              | 30               | -4.05       |
|           |            |                 |            | 50      | 25        | 23.24                   | 25.16              | 30               | -4.84       |
|           |            |                 |            | 100     | 0         | 23.25                   | 25.17              | 30               | -4.83       |
|           | 20050      | 1720            | 16QAM      | 1       | 0         | 23.16                   | 25.08              | 30               | -4.92       |
|           |            |                 |            | 1       | 99        | 22.97                   | 24.89              | 30               | -5.11       |
|           |            |                 |            | 50      | 25        | 22.03                   | 23.95              | 30               | -6.05       |
|           |            |                 |            | 100     | 0         | 22.00                   | 23.92              | 30               | -6.08       |
|           | 20175      | 1732.5          | 16QAM      | 1       | 0         | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 1       | 99        | 23.11                   | 25.03              | 30               | -4.97       |
|           |            |                 |            | 50      | 25        | 22.12                   | 24.04              | 30               | -5.96       |
|           |            |                 |            | 100     | 0         | 22.09                   | 24.01              | 30               | -5.99       |
|           | 20300      | 1745            | 16QAM      | 1       | 0         | 23.88                   | 25.80              | 30               | -4.2        |
|           |            |                 |            | 1       | 99        | 23.50                   | 25.42              | 30               | -4.58       |
|           |            |                 |            | 50      | 25        | 22.27                   | 24.19              | 30               | -5.81       |
|           |            |                 |            | 100     | 0         | 22.23                   | 24.15              | 30               | -5.85       |

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LTE Band 5

Antenna gain (dBi) 0.16

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                         | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                               | 20407      | 824.7           | QPSK       | 1       | 0         | 23.93                   | 24.09             | 26.24              | 40.6                | 38.45           | -14.36      |
|                                                   |            |                 |            | 1       | 5         | 23.83                   | 23.99             | 26.14              | 40.6                | 38.45           | -14.46      |
|                                                   |            |                 |            | 3       | 2         | 23.88                   | 24.04             | 26.19              | 40.6                | 38.45           | -14.41      |
|                                                   |            |                 |            | 6       | 0         | 22.94                   | 23.10             | 25.25              | 40.6                | 38.45           | -15.35      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 23.87                   | 24.03             | 26.18              | 40.6                | 38.45           | -14.42      |
|                                                   |            |                 |            | 1       | 5         | 23.84                   | 24.00             | 26.15              | 40.6                | 38.45           | -14.45      |
|                                                   |            |                 |            | 3       | 2         | 23.97                   | 24.13             | 26.28              | 40.6                | 38.45           | -14.32      |
|                                                   |            |                 |            | 6       | 0         | 22.88                   | 23.04             | 25.19              | 40.6                | 38.45           | -15.41      |
|                                                   | 20643      | 848.3           | QPSK       | 1       | 0         | 23.92                   | 24.08             | 26.23              | 40.6                | 38.45           | -14.37      |
|                                                   |            |                 |            | 1       | 5         | 23.91                   | 24.07             | 26.22              | 40.6                | 38.45           | -14.38      |
|                                                   |            |                 |            | 3       | 2         | 23.88                   | 24.04             | 26.19              | 40.6                | 38.45           | -14.41      |
|                                                   |            |                 |            | 6       | 0         | 22.88                   | 23.04             | 25.19              | 40.6                | 38.45           | -15.41      |
|                                                   | 20407      | 824.7           | 16QAM      | 1       | 0         | 23.15                   | 23.31             | 25.46              | 40.6                | 38.45           | -15.14      |
|                                                   |            |                 |            | 1       | 5         | 23.14                   | 23.30             | 25.45              | 40.6                | 38.45           | -15.15      |
|                                                   |            |                 |            | 3       | 2         | 23.00                   | 23.16             | 25.31              | 40.6                | 38.45           | -15.29      |
|                                                   |            |                 |            | 6       | 0         | 22.01                   | 22.17             | 24.32              | 40.6                | 38.45           | -16.28      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 23.34                   | 23.50             | 25.65              | 40.6                | 38.45           | -14.95      |
|                                                   |            |                 |            | 1       | 5         | 23.26                   | 23.42             | 25.57              | 40.6                | 38.45           | -15.03      |
|                                                   |            |                 |            | 3       | 2         | 22.98                   | 23.14             | 25.29              | 40.6                | 38.45           | -15.31      |
|                                                   |            |                 |            | 6       | 0         | 21.94                   | 22.10             | 24.25              | 40.6                | 38.45           | -16.35      |
|                                                   | 20643      | 848.3           | 16QAM      | 1       | 0         | 23.09                   | 23.25             | 25.40              | 40.6                | 38.45           | -15.2       |
|                                                   |            |                 |            | 1       | 5         | 22.96                   | 23.12             | 25.27              | 40.6                | 38.45           | -15.33      |
|                                                   |            |                 |            | 3       | 2         | 22.98                   | 23.14             | 25.29              | 40.6                | 38.45           | -15.31      |
|                                                   |            |                 |            | 6       | 0         | 21.85                   | 22.01             | 24.16              | 40.6                | 38.45           | -16.44      |

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LTE Band 5

Antenna gain (dBi) 0.16

| LTE Band 5 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                         | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                 | 20415      | 825.5           | QPSK       | 1       | 0         | 23.89                   | 24.05             | 26.20              | 40.6                | 38.45           | -14.4       |
|                                                   |            |                 |            | 1       | 14        | 23.86                   | 24.02             | 26.17              | 40.6                | 38.45           | -14.43      |
|                                                   |            |                 |            | 8       | 4         | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   |            |                 |            | 15      | 0         | 23.00                   | 23.16             | 25.31              | 40.6                | 38.45           | -15.29      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 23.99                   | 24.15             | 26.30              | 40.6                | 38.45           | -14.3       |
|                                                   |            |                 |            | 1       | 14        | 23.90                   | 24.06             | 26.21              | 40.6                | 38.45           | -14.39      |
|                                                   |            |                 |            | 8       | 4         | 23.01                   | 23.17             | 25.32              | 40.6                | 38.45           | -15.28      |
|                                                   |            |                 |            | 15      | 0         | 23.01                   | 23.17             | 25.32              | 40.6                | 38.45           | -15.28      |
|                                                   | 20635      | 847.5           | QPSK       | 1       | 0         | 23.95                   | 24.11             | 26.26              | 40.6                | 38.45           | -14.34      |
|                                                   |            |                 |            | 1       | 14        | 23.90                   | 24.06             | 26.21              | 40.6                | 38.45           | -14.39      |
|                                                   |            |                 |            | 8       | 4         | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   |            |                 |            | 15      | 0         | 22.94                   | 23.10             | 25.25              | 40.6                | 38.45           | -15.35      |
|                                                   | 20415      | 825.5           | 16QAM      | 1       | 0         | 23.06                   | 23.22             | 25.37              | 40.6                | 38.45           | -15.23      |
|                                                   |            |                 |            | 1       | 14        | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   |            |                 |            | 8       | 4         | 22.07                   | 22.23             | 24.38              | 40.6                | 38.45           | -16.22      |
|                                                   |            |                 |            | 15      | 0         | 21.98                   | 22.14             | 24.29              | 40.6                | 38.45           | -16.31      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 23.14                   | 23.30             | 25.45              | 40.6                | 38.45           | -15.15      |
|                                                   |            |                 |            | 1       | 14        | 23.27                   | 23.43             | 25.58              | 40.6                | 38.45           | -15.02      |
|                                                   |            |                 |            | 8       | 4         | 22.03                   | 22.19             | 24.34              | 40.6                | 38.45           | -16.26      |
|                                                   |            |                 |            | 15      | 0         | 22.03                   | 22.19             | 24.34              | 40.6                | 38.45           | -16.26      |
|                                                   | 20635      | 847.5           | 16QAM      | 1       | 0         | 23.44                   | 23.60             | 25.75              | 40.6                | 38.45           | -14.85      |
|                                                   |            |                 |            | 1       | 14        | 23.37                   | 23.53             | 25.68              | 40.6                | 38.45           | -14.92      |
|                                                   |            |                 |            | 8       | 4         | 22.01                   | 22.17             | 24.32              | 40.6                | 38.45           | -16.28      |
|                                                   |            |                 |            | 15      | 0         | 21.96                   | 22.12             | 24.27              | 40.6                | 38.45           | -16.33      |

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LTE Band 5

Antenna gain (dBi) 0.16

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                         | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                 | 20425      | 826.5           | QPSK       | 1       | 0         | 24.00                   | 24.16             | 26.31              | 40.6                | 38.45           | -14.29      |
|                                                   |            |                 |            | 1       | 24        | 23.95                   | 24.11             | 26.26              | 40.6                | 38.45           | -14.34      |
|                                                   |            |                 |            | 12      | 6         | 23.04                   | 23.20             | 25.35              | 40.6                | 38.45           | -15.25      |
|                                                   |            |                 |            | 25      | 0         | 22.99                   | 23.15             | 25.30              | 40.6                | 38.45           | -15.3       |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 24.05                   | 24.21             | 26.36              | 40.6                | 38.45           | -14.24      |
|                                                   |            |                 |            | 1       | 24        | 23.90                   | 24.06             | 26.21              | 40.6                | 38.45           | -14.39      |
|                                                   |            |                 |            | 12      | 6         | 23.04                   | 23.20             | 25.35              | 40.6                | 38.45           | -15.25      |
|                                                   |            |                 |            | 25      | 0         | 23.00                   | 23.16             | 25.31              | 40.6                | 38.45           | -15.29      |
|                                                   | 20625      | 846.5           | QPSK       | 1       | 0         | 24.02                   | 24.18             | 26.33              | 40.6                | 38.45           | -14.27      |
|                                                   |            |                 |            | 1       | 24        | 23.99                   | 24.15             | 26.30              | 40.6                | 38.45           | -14.3       |
|                                                   |            |                 |            | 12      | 6         | 23.00                   | 23.16             | 25.31              | 40.6                | 38.45           | -15.29      |
|                                                   |            |                 |            | 25      | 0         | 22.97                   | 23.13             | 25.28              | 40.6                | 38.45           | -15.32      |
|                                                   | 20425      | 826.5           | 16QAM      | 1       | 0         | 23.25                   | 23.41             | 25.56              | 40.6                | 38.45           | -15.04      |
|                                                   |            |                 |            | 1       | 24        | 23.17                   | 23.33             | 25.48              | 40.6                | 38.45           | -15.12      |
|                                                   |            |                 |            | 12      | 6         | 21.95                   | 22.11             | 24.26              | 40.6                | 38.45           | -16.34      |
|                                                   |            |                 |            | 25      | 0         | 21.99                   | 22.15             | 24.30              | 40.6                | 38.45           | -16.3       |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 23.40                   | 23.56             | 25.71              | 40.6                | 38.45           | -14.89      |
|                                                   |            |                 |            | 1       | 24        | 23.35                   | 23.51             | 25.66              | 40.6                | 38.45           | -14.94      |
|                                                   |            |                 |            | 12      | 6         | 22.07                   | 22.23             | 24.38              | 40.6                | 38.45           | -16.22      |
|                                                   |            |                 |            | 25      | 0         | 21.96                   | 22.12             | 24.27              | 40.6                | 38.45           | -16.33      |
|                                                   | 20625      | 846.5           | 16QAM      | 1       | 0         | 23.16                   | 23.32             | 25.47              | 40.6                | 38.45           | -15.13      |
|                                                   |            |                 |            | 1       | 24        | 23.15                   | 23.31             | 25.46              | 40.6                | 38.45           | -15.14      |
|                                                   |            |                 |            | 12      | 6         | 22.04                   | 22.20             | 24.35              | 40.6                | 38.45           | -16.25      |
|                                                   |            |                 |            | 25      | 0         | 21.99                   | 22.15             | 24.30              | 40.6                | 38.45           | -16.3       |

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LTE Band 5

Antenna gain (dBi)

0.16

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                         | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                | 20450      | 829             | QPSK       | 1       | 0         | 23.95                   | 24.11             | 26.26              | 40.6                | 38.45           | -14.34      |
|                                                   |            |                 |            | 1       | 49        | 23.81                   | 23.97             | 26.12              | 40.6                | 38.45           | -14.48      |
|                                                   |            |                 |            | 25      | 12        | 23.05                   | 23.21             | 25.36              | 40.6                | 38.45           | -15.24      |
|                                                   |            |                 |            | 50      | 0         | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 24.07                   | 24.23             | 26.38              | 40.6                | 38.45           | -14.22      |
|                                                   |            |                 |            | 1       | 49        | 23.88                   | 24.04             | 26.19              | 40.6                | 38.45           | -14.41      |
|                                                   |            |                 |            | 25      | 12        | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   |            |                 |            | 50      | 0         | 23.03                   | 23.19             | 25.34              | 40.6                | 38.45           | -15.26      |
|                                                   | 20600      | 844             | QPSK       | 1       | 0         | 24.06                   | 24.22             | 26.37              | 40.6                | 38.45           | -14.23      |
|                                                   |            |                 |            | 1       | 49        | 23.88                   | 24.04             | 26.19              | 40.6                | 38.45           | -14.41      |
|                                                   |            |                 |            | 25      | 12        | 23.08                   | 23.24             | 25.39              | 40.6                | 38.45           | -15.21      |
|                                                   |            |                 |            | 50      | 0         | 23.02                   | 23.18             | 25.33              | 40.6                | 38.45           | -15.27      |
|                                                   | 20450      | 829             | 16QAM      | 1       | 0         | 23.06                   | 23.22             | 25.37              | 40.6                | 38.45           | -15.23      |
|                                                   |            |                 |            | 1       | 49        | 22.94                   | 23.10             | 25.25              | 40.6                | 38.45           | -15.35      |
|                                                   |            |                 |            | 25      | 12        | 21.97                   | 22.13             | 24.28              | 40.6                | 38.45           | -16.32      |
|                                                   |            |                 |            | 50      | 0         | 21.97                   | 22.13             | 24.28              | 40.6                | 38.45           | -16.32      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 23.47                   | 23.63             | 25.78              | 40.6                | 38.45           | -14.82      |
|                                                   |            |                 |            | 1       | 49        | 23.30                   | 23.46             | 25.61              | 40.6                | 38.45           | -14.99      |
|                                                   |            |                 |            | 25      | 12        | 22.13                   | 22.29             | 24.44              | 40.6                | 38.45           | -16.16      |
|                                                   |            |                 |            | 50      | 0         | 22.03                   | 22.19             | 24.34              | 40.6                | 38.45           | -16.26      |
|                                                   | 20600      | 844             | 16QAM      | 1       | 0         | 23.43                   | 23.59             | 25.74              | 40.6                | 38.45           | -14.86      |
|                                                   |            |                 |            | 1       | 49        | 23.38                   | 23.54             | 25.69              | 40.6                | 38.45           | -14.91      |
|                                                   |            |                 |            | 25      | 12        | 22.14                   | 22.30             | 24.45              | 40.6                | 38.45           | -16.15      |
|                                                   |            |                 |            | 50      | 0         | 22.04                   | 22.20             | 24.35              | 40.6                | 38.45           | -16.25      |

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LTE Band 7

Antenna gain (dBi)

2.11

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |            |                 |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                   | 20775      | 2502.5          | QPSK       | 1       | 0         | 24.29                   | 26.40              | 33               | -6.6        |
|                                                     |            |                 |            | 1       | 24        | 24.23                   | 26.34              | 33               | -6.66       |
|                                                     |            |                 |            | 12      | 6         | 23.29                   | 25.40              | 33               | -7.6        |
|                                                     |            |                 |            | 25      | 0         | 23.25                   | 25.36              | 33               | -7.64       |
|                                                     | 21100      | 2535            | QPSK       | 1       | 0         | 24.21                   | 26.32              | 33               | -6.68       |
|                                                     |            |                 |            | 1       | 24        | 24.20                   | 26.31              | 33               | -6.69       |
|                                                     |            |                 |            | 12      | 6         | 23.22                   | 25.33              | 33               | -7.67       |
|                                                     |            |                 |            | 25      | 0         | 23.24                   | 25.35              | 33               | -7.65       |
|                                                     | 21375      | 2567.5          | QPSK       | 1       | 0         | 24.15                   | 26.26              | 33               | -6.74       |
|                                                     |            |                 |            | 1       | 24        | 24.07                   | 26.18              | 33               | -6.82       |
|                                                     |            |                 |            | 12      | 6         | 23.15                   | 25.26              | 33               | -7.74       |
|                                                     |            |                 |            | 25      | 0         | 23.14                   | 25.25              | 33               | -7.75       |
|                                                     | 20775      | 2502.5          | 16QAM      | 1       | 0         | 23.39                   | 25.50              | 33               | -7.5        |
|                                                     |            |                 |            | 1       | 24        | 23.38                   | 25.49              | 33               | -7.51       |
|                                                     |            |                 |            | 12      | 6         | 22.35                   | 24.46              | 33               | -8.54       |
|                                                     |            |                 |            | 25      | 0         | 22.24                   | 24.35              | 33               | -8.65       |
|                                                     | 21100      | 2535            | 16QAM      | 1       | 0         | 23.43                   | 25.54              | 33               | -7.46       |
|                                                     |            |                 |            | 1       | 24        | 23.45                   | 25.56              | 33               | -7.44       |
|                                                     |            |                 |            | 12      | 6         | 22.26                   | 24.37              | 33               | -8.63       |
|                                                     |            |                 |            | 25      | 0         | 22.24                   | 24.35              | 33               | -8.65       |
|                                                     | 21375      | 2567.5          | 16QAM      | 1       | 0         | 23.39                   | 25.50              | 33               | -7.5        |
|                                                     |            |                 |            | 1       | 24        | 23.27                   | 25.38              | 33               | -7.62       |
|                                                     |            |                 |            | 12      | 6         | 22.09                   | 24.20              | 33               | -8.8        |
|                                                     |            |                 |            | 25      | 0         | 22.12                   | 24.23              | 33               | -8.77       |

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LTE Band 7

Antenna gain (dBi)

2.11

LTE Band 7\_Uplink frequency band : 2500 to 2570 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 20800      | 2505            | QPSK       | 1       | 0         | 24.26                   | 26.37              | 33               | -6.63       |
|           |            |                 |            | 1       | 49        | 24.14                   | 26.25              | 33               | -6.75       |
|           |            |                 |            | 25      | 12        | 23.28                   | 25.39              | 33               | -7.61       |
|           |            |                 |            | 50      | 0         | 23.24                   | 25.35              | 33               | -7.65       |
|           | 21100      | 2535            | QPSK       | 1       | 0         | 24.23                   | 26.34              | 33               | -6.66       |
|           |            |                 |            | 1       | 49        | 24.09                   | 26.20              | 33               | -6.8        |
|           |            |                 |            | 25      | 12        | 23.25                   | 25.36              | 33               | -7.64       |
|           |            |                 |            | 50      | 0         | 23.20                   | 25.31              | 33               | -7.69       |
|           | 21350      | 2565            | QPSK       | 1       | 0         | 24.15                   | 26.26              | 33               | -6.74       |
|           |            |                 |            | 1       | 49        | 23.98                   | 26.09              | 33               | -6.91       |
|           |            |                 |            | 25      | 12        | 23.15                   | 25.26              | 33               | -7.74       |
|           |            |                 |            | 50      | 0         | 23.14                   | 25.25              | 33               | -7.75       |
|           | 20800      | 2505            | 16QAM      | 1       | 0         | 23.39                   | 25.50              | 33               | -7.5        |
|           |            |                 |            | 1       | 49        | 23.46                   | 25.57              | 33               | -7.43       |
|           |            |                 |            | 25      | 12        | 22.17                   | 24.28              | 33               | -8.72       |
|           |            |                 |            | 50      | 0         | 22.27                   | 24.38              | 33               | -8.62       |
|           | 21100      | 2535            | 16QAM      | 1       | 0         | 23.46                   | 25.57              | 33               | -7.43       |
|           |            |                 |            | 1       | 49        | 23.20                   | 25.31              | 33               | -7.69       |
|           |            |                 |            | 25      | 12        | 22.30                   | 24.41              | 33               | -8.59       |
|           |            |                 |            | 50      | 0         | 22.23                   | 24.34              | 33               | -8.66       |
|           | 21350      | 2565            | 16QAM      | 1       | 0         | 23.20                   | 25.31              | 33               | -7.69       |
|           |            |                 |            | 1       | 49        | 23.22                   | 25.33              | 33               | -7.67       |
|           |            |                 |            | 25      | 12        | 22.22                   | 24.33              | 33               | -8.67       |
|           |            |                 |            | 50      | 0         | 22.15                   | 24.26              | 33               | -8.74       |

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LTE Band 7

Antenna gain (dBi)

2.11

LTE Band 7\_Uplink frequency band : 2500 to 2570 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 20825      | 2507.5          | QPSK       | 1       | 0         | 24.32                   | 26.43              | 33               | -6.57       |
|           |            |                 |            | 1       | 74        | 24.13                   | 26.24              | 33               | -6.76       |
|           |            |                 |            | 36      | 19        | 23.24                   | 25.35              | 33               | -7.65       |
|           |            |                 |            | 75      | 0         | 23.23                   | 25.34              | 33               | -7.66       |
|           | 21100      | 2535            | QPSK       | 1       | 0         | 24.34                   | 26.45              | 33               | -6.55       |
|           |            |                 |            | 1       | 74        | 24.06                   | 26.17              | 33               | -6.83       |
|           |            |                 |            | 36      | 19        | 23.24                   | 25.35              | 33               | -7.65       |
|           |            |                 |            | 75      | 0         | 23.26                   | 25.37              | 33               | -7.63       |
|           | 21375      | 2562.5          | QPSK       | 1       | 0         | 24.28                   | 26.39              | 33               | -6.61       |
|           |            |                 |            | 1       | 74        | 24.03                   | 26.14              | 33               | -6.86       |
|           |            |                 |            | 36      | 19        | 23.20                   | 25.31              | 33               | -7.69       |
|           |            |                 |            | 75      | 0         | 23.21                   | 25.32              | 33               | -7.68       |
|           | 20825      | 2507.5          | 16QAM      | 1       | 0         | 23.46                   | 25.57              | 33               | -7.43       |
|           |            |                 |            | 1       | 74        | 23.47                   | 25.58              | 33               | -7.42       |
|           |            |                 |            | 36      | 19        | 22.25                   | 24.36              | 33               | -8.64       |
|           |            |                 |            | 75      | 0         | 22.22                   | 24.33              | 33               | -8.67       |
|           | 21100      | 2535            | 16QAM      | 1       | 0         | 23.83                   | 25.94              | 33               | -7.06       |
|           |            |                 |            | 1       | 74        | 23.44                   | 25.55              | 33               | -7.45       |
|           |            |                 |            | 36      | 19        | 22.30                   | 24.41              | 33               | -8.59       |
|           |            |                 |            | 75      | 0         | 22.30                   | 24.41              | 33               | -8.59       |
|           | 21375      | 2562.5          | 16QAM      | 1       | 0         | 23.49                   | 25.60              | 33               | -7.4        |
|           |            |                 |            | 1       | 74        | 23.28                   | 25.39              | 33               | -7.61       |
|           |            |                 |            | 36      | 19        | 22.18                   | 24.29              | 33               | -8.71       |
|           |            |                 |            | 75      | 0         | 22.18                   | 24.29              | 33               | -8.71       |

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LTE Band 7

Antenna gain (dBi)

2.11

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |            |                 |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                  | 20850      | 2510            | QPSK       | 1       | 0         | 24.42                   | 26.53              | 33               | -6.47       |
|                                                     |            |                 |            | 1       | 99        | 24.18                   | 26.29              | 33               | -6.71       |
|                                                     |            |                 |            | 50      | 25        | 23.30                   | 25.41              | 33               | -7.59       |
|                                                     |            |                 |            | 100     | 0         | 23.27                   | 25.38              | 33               | -7.62       |
|                                                     | 21100      | 2535            | QPSK       | 1       | 0         | 24.36                   | 26.47              | 33               | -6.53       |
|                                                     |            |                 |            | 1       | 99        | 24.06                   | 26.17              | 33               | -6.83       |
|                                                     |            |                 |            | 50      | 25        | 23.23                   | 25.34              | 33               | -7.66       |
|                                                     |            |                 |            | 100     | 0         | 23.19                   | 25.30              | 33               | -7.7        |
|                                                     | 21350      | 2560            | QPSK       | 1       | 0         | 24.24                   | 26.35              | 33               | -6.65       |
|                                                     |            |                 |            | 1       | 99        | 23.83                   | 25.94              | 33               | -7.06       |
|                                                     |            |                 |            | 50      | 25        | 23.20                   | 25.31              | 33               | -7.69       |
|                                                     |            |                 |            | 100     | 0         | 23.20                   | 25.31              | 33               | -7.69       |
|                                                     | 20850      | 2510            | 16QAM      | 1       | 0         | 23.75                   | 25.86              | 33               | -7.14       |
|                                                     |            |                 |            | 1       | 99        | 23.42                   | 25.53              | 33               | -7.47       |
|                                                     |            |                 |            | 50      | 25        | 22.35                   | 24.46              | 33               | -8.54       |
|                                                     |            |                 |            | 100     | 0         | 22.26                   | 24.37              | 33               | -8.63       |
|                                                     | 21100      | 2535            | 16QAM      | 1       | 0         | 23.36                   | 25.47              | 33               | -7.53       |
|                                                     |            |                 |            | 1       | 99        | 23.28                   | 25.39              | 33               | -7.61       |
|                                                     |            |                 |            | 50      | 25        | 22.24                   | 24.35              | 33               | -8.65       |
|                                                     |            |                 |            | 100     | 0         | 22.20                   | 24.31              | 33               | -8.69       |
|                                                     | 21350      | 2560            | 16QAM      | 1       | 0         | 23.48                   | 25.59              | 33               | -7.41       |
|                                                     |            |                 |            | 1       | 99        | 23.06                   | 25.17              | 33               | -7.83       |
|                                                     |            |                 |            | 50      | 25        | 22.21                   | 24.32              | 33               | -8.68       |
|                                                     |            |                 |            | 100     | 0         | 22.20                   | 24.31              | 33               | -8.69       |

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LTE Band 12

Antenna gain (dBi) 0.09

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                                | 23017      | 699.7           | QPSK       | 1       | 0         | 23.93                   | 24.02             | 26.17              | 36.99               | 34.77           | -10.75      |
|                                                    |            |                 |            | 1       | 5         | 23.89                   | 23.98             | 26.13              | 36.99               | 34.77           | -10.79      |
|                                                    |            |                 |            | 3       | 2         | 23.93                   | 24.02             | 26.17              | 36.99               | 34.77           | -10.75      |
|                                                    |            |                 |            | 6       | 0         | 22.92                   | 23.01             | 25.16              | 36.99               | 34.77           | -11.76      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 23.91                   | 24.00             | 26.15              | 36.99               | 34.77           | -10.77      |
|                                                    |            |                 |            | 1       | 5         | 23.93                   | 24.02             | 26.17              | 36.99               | 34.77           | -10.75      |
|                                                    |            |                 |            | 3       | 2         | 23.99                   | 24.08             | 26.23              | 36.99               | 34.77           | -10.69      |
|                                                    |            |                 |            | 6       | 0         | 22.94                   | 23.03             | 25.18              | 36.99               | 34.77           | -11.74      |
|                                                    | 23173      | 715.5           | QPSK       | 1       | 0         | 23.82                   | 23.91             | 26.06              | 36.99               | 34.77           | -10.86      |
|                                                    |            |                 |            | 1       | 5         | 23.82                   | 23.91             | 26.06              | 36.99               | 34.77           | -10.86      |
|                                                    |            |                 |            | 3       | 2         | 23.88                   | 23.97             | 26.12              | 36.99               | 34.77           | -10.8       |
|                                                    |            |                 |            | 6       | 0         | 22.81                   | 22.90             | 25.05              | 36.99               | 34.77           | -11.87      |
|                                                    | 23017      | 699.7           | 16QAM      | 1       | 0         | 22.90                   | 22.99             | 25.14              | 36.99               | 34.77           | -11.78      |
|                                                    |            |                 |            | 1       | 5         | 22.95                   | 23.04             | 25.19              | 36.99               | 34.77           | -11.73      |
|                                                    |            |                 |            | 3       | 2         | 23.02                   | 23.11             | 25.26              | 36.99               | 34.77           | -11.66      |
|                                                    |            |                 |            | 6       | 0         | 21.91                   | 22.00             | 24.15              | 36.99               | 34.77           | -12.77      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 23.09                   | 23.18             | 25.33              | 36.99               | 34.77           | -11.59      |
|                                                    |            |                 |            | 1       | 5         | 23.06                   | 23.15             | 25.30              | 36.99               | 34.77           | -11.62      |
|                                                    |            |                 |            | 3       | 2         | 23.05                   | 23.14             | 25.29              | 36.99               | 34.77           | -11.63      |
|                                                    |            |                 |            | 6       | 0         | 22.02                   | 22.11             | 24.26              | 36.99               | 34.77           | -12.66      |
|                                                    | 23173      | 715.5           | 16QAM      | 1       | 0         | 23.23                   | 23.32             | 25.47              | 36.99               | 34.77           | -11.45      |
|                                                    |            |                 |            | 1       | 5         | 23.28                   | 23.37             | 25.52              | 36.99               | 34.77           | -11.4       |
|                                                    |            |                 |            | 3       | 2         | 22.94                   | 23.03             | 25.18              | 36.99               | 34.77           | -11.74      |
|                                                    |            |                 |            | 6       | 0         | 22.00                   | 22.09             | 24.24              | 36.99               | 34.77           | -12.68      |

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LTE Band 12

Antenna gain (dBi)

0.09

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                  | 23025      | 700.5           | QPSK       | 1       | 0         | 24.00                   | 24.09             | 26.24              | 36.99               | 34.77           | -10.68      |
|                                                    |            |                 |            | 1       | 14        | 23.95                   | 24.04             | 26.19              | 36.99               | 34.77           | -10.73      |
|                                                    |            |                 |            | 8       | 4         | 23.08                   | 23.17             | 25.32              | 36.99               | 34.77           | -11.6       |
|                                                    |            |                 |            | 15      | 0         | 23.03                   | 23.12             | 25.27              | 36.99               | 34.77           | -11.65      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 24.02                   | 24.11             | 26.26              | 36.99               | 34.77           | -10.66      |
|                                                    |            |                 |            | 1       | 14        | 24.00                   | 24.09             | 26.24              | 36.99               | 34.77           | -10.68      |
|                                                    |            |                 |            | 8       | 4         | 23.06                   | 23.15             | 25.30              | 36.99               | 34.77           | -11.62      |
|                                                    |            |                 |            | 15      | 0         | 23.00                   | 23.09             | 25.24              | 36.99               | 34.77           | -11.68      |
|                                                    | 23165      | 714.5           | QPSK       | 1       | 0         | 23.89                   | 23.98             | 26.13              | 36.99               | 34.77           | -10.79      |
|                                                    |            |                 |            | 1       | 14        | 23.84                   | 23.93             | 26.08              | 36.99               | 34.77           | -10.84      |
|                                                    |            |                 |            | 8       | 4         | 22.97                   | 23.06             | 25.21              | 36.99               | 34.77           | -11.71      |
|                                                    |            |                 |            | 15      | 0         | 22.93                   | 23.02             | 25.17              | 36.99               | 34.77           | -11.75      |
|                                                    | 23025      | 700.5           | 16QAM      | 1       | 0         | 23.47                   | 23.56             | 25.71              | 36.99               | 34.77           | -11.21      |
|                                                    |            |                 |            | 1       | 14        | 23.08                   | 23.17             | 25.32              | 36.99               | 34.77           | -11.6       |
|                                                    |            |                 |            | 8       | 4         | 22.05                   | 22.14             | 24.29              | 36.99               | 34.77           | -12.63      |
|                                                    |            |                 |            | 15      | 0         | 21.95                   | 22.04             | 24.19              | 36.99               | 34.77           | -12.73      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 23.22                   | 23.31             | 25.46              | 36.99               | 34.77           | -11.46      |
|                                                    |            |                 |            | 1       | 14        | 23.27                   | 23.36             | 25.51              | 36.99               | 34.77           | -11.41      |
|                                                    |            |                 |            | 8       | 4         | 21.97                   | 22.06             | 24.21              | 36.99               | 34.77           | -12.71      |
|                                                    |            |                 |            | 15      | 0         | 22.03                   | 22.12             | 24.27              | 36.99               | 34.77           | -12.65      |
|                                                    | 23165      | 714.5           | 16QAM      | 1       | 0         | 23.30                   | 23.39             | 25.54              | 36.99               | 34.77           | -11.38      |
|                                                    |            |                 |            | 1       | 14        | 23.32                   | 23.41             | 25.56              | 36.99               | 34.77           | -11.36      |
|                                                    |            |                 |            | 8       | 4         | 22.02                   | 22.11             | 24.26              | 36.99               | 34.77           | -12.66      |
|                                                    |            |                 |            | 15      | 0         | 21.91                   | 22.00             | 24.15              | 36.99               | 34.77           | -12.77      |

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LTE Band 12

Antenna gain (dBi) 0.09

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 23035      | 701.5           | QPSK       | 1       | 0         | 24.00                   | 24.09             | 26.24              | 36.99               | 34.77           | -10.68      |
|                                                    |            |                 |            | 1       | 24        | 24.06                   | 24.15             | 26.30              | 36.99               | 34.77           | -10.62      |
|                                                    |            |                 |            | 12      | 6         | 23.01                   | 23.10             | 25.25              | 36.99               | 34.77           | -11.67      |
|                                                    |            |                 |            | 25      | 0         | 22.97                   | 23.06             | 25.21              | 36.99               | 34.77           | -11.71      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 24.02                   | 24.11             | 26.26              | 36.99               | 34.77           | -10.66      |
|                                                    |            |                 |            | 1       | 24        | 23.94                   | 24.03             | 26.18              | 36.99               | 34.77           | -10.74      |
|                                                    |            |                 |            | 12      | 6         | 23.06                   | 23.15             | 25.30              | 36.99               | 34.77           | -11.62      |
|                                                    |            |                 |            | 25      | 0         | 23.01                   | 23.10             | 25.25              | 36.99               | 34.77           | -11.67      |
|                                                    | 23155      | 713.5           | QPSK       | 1       | 0         | 23.93                   | 24.02             | 26.17              | 36.99               | 34.77           | -10.75      |
|                                                    |            |                 |            | 1       | 24        | 23.89                   | 23.98             | 26.13              | 36.99               | 34.77           | -10.79      |
|                                                    |            |                 |            | 12      | 6         | 22.96                   | 23.05             | 25.20              | 36.99               | 34.77           | -11.72      |
|                                                    |            |                 |            | 25      | 0         | 22.94                   | 23.03             | 25.18              | 36.99               | 34.77           | -11.74      |
|                                                    | 23035      | 701.5           | 16QAM      | 1       | 0         | 23.00                   | 23.09             | 25.24              | 36.99               | 34.77           | -11.68      |
|                                                    |            |                 |            | 1       | 24        | 22.90                   | 22.99             | 25.14              | 36.99               | 34.77           | -11.78      |
|                                                    |            |                 |            | 12      | 6         | 22.07                   | 22.16             | 24.31              | 36.99               | 34.77           | -12.61      |
|                                                    |            |                 |            | 25      | 0         | 21.97                   | 22.06             | 24.21              | 36.99               | 34.77           | -12.71      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 23.10                   | 23.19             | 25.34              | 36.99               | 34.77           | -11.58      |
|                                                    |            |                 |            | 1       | 24        | 23.04                   | 23.13             | 25.28              | 36.99               | 34.77           | -11.64      |
|                                                    |            |                 |            | 12      | 6         | 22.06                   | 22.15             | 24.30              | 36.99               | 34.77           | -12.62      |
|                                                    |            |                 |            | 25      | 0         | 21.98                   | 22.07             | 24.22              | 36.99               | 34.77           | -12.7       |
|                                                    | 23155      | 713.5           | 16QAM      | 1       | 0         | 23.43                   | 23.52             | 25.67              | 36.99               | 34.77           | -11.25      |
|                                                    |            |                 |            | 1       | 24        | 23.37                   | 23.46             | 25.61              | 36.99               | 34.77           | -11.31      |
|                                                    |            |                 |            | 12      | 6         | 22.02                   | 22.11             | 24.26              | 36.99               | 34.77           | -12.66      |
|                                                    |            |                 |            | 25      | 0         | 21.95                   | 22.04             | 24.19              | 36.99               | 34.77           | -12.73      |

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LTE Band 12

Antenna gain (dBi) 0.09

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23060      | 704             | QPSK       | 1       | 0         | 24.05                   | 24.14             | 26.29              | 36.99               | 34.77           | -10.63      |
|                                                    |            |                 |            | 1       | 49        | 23.97                   | 24.06             | 26.21              | 36.99               | 34.77           | -10.71      |
|                                                    |            |                 |            | 25      | 12        | 23.12                   | 23.21             | 25.36              | 36.99               | 34.77           | -11.56      |
|                                                    |            |                 |            | 50      | 0         | 23.08                   | 23.17             | 25.32              | 36.99               | 34.77           | -11.6       |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 24.03                   | 24.12             | 26.27              | 36.99               | 34.77           | -10.65      |
|                                                    |            |                 |            | 1       | 49        | 23.94                   | 24.03             | 26.18              | 36.99               | 34.77           | -10.74      |
|                                                    |            |                 |            | 25      | 12        | 23.06                   | 23.15             | 25.30              | 36.99               | 34.77           | -11.62      |
|                                                    |            |                 |            | 50      | 0         | 23.01                   | 23.10             | 25.25              | 36.99               | 34.77           | -11.67      |
|                                                    | 23130      | 711             | QPSK       | 1       | 0         | 23.98                   | 24.07             | 26.22              | 36.99               | 34.77           | -10.7       |
|                                                    |            |                 |            | 1       | 49        | 23.87                   | 23.96             | 26.11              | 36.99               | 34.77           | -10.81      |
|                                                    |            |                 |            | 25      | 12        | 23.01                   | 23.10             | 25.25              | 36.99               | 34.77           | -11.67      |
|                                                    |            |                 |            | 50      | 0         | 22.98                   | 23.07             | 25.22              | 36.99               | 34.77           | -11.7       |
|                                                    | 23060      | 704             | 16QAM      | 1       | 0         | 23.23                   | 23.32             | 25.47              | 36.99               | 34.77           | -11.45      |
|                                                    |            |                 |            | 1       | 49        | 23.24                   | 23.33             | 25.48              | 36.99               | 34.77           | -11.44      |
|                                                    |            |                 |            | 25      | 12        | 22.13                   | 22.22             | 24.37              | 36.99               | 34.77           | -12.55      |
|                                                    |            |                 |            | 50      | 0         | 22.10                   | 22.19             | 24.34              | 36.99               | 34.77           | -12.58      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 23.24                   | 23.33             | 25.48              | 36.99               | 34.77           | -11.44      |
|                                                    |            |                 |            | 1       | 49        | 23.21                   | 23.30             | 25.45              | 36.99               | 34.77           | -11.47      |
|                                                    |            |                 |            | 25      | 12        | 21.96                   | 22.05             | 24.20              | 36.99               | 34.77           | -12.72      |
|                                                    |            |                 |            | 50      | 0         | 21.99                   | 22.08             | 24.23              | 36.99               | 34.77           | -12.69      |
|                                                    | 23130      | 711             | 16QAM      | 1       | 0         | 23.41                   | 23.50             | 25.65              | 36.99               | 34.77           | -11.27      |
|                                                    |            |                 |            | 1       | 49        | 23.36                   | 23.45             | 25.60              | 36.99               | 34.77           | -11.32      |
|                                                    |            |                 |            | 25      | 12        | 21.99                   | 22.08             | 24.23              | 36.99               | 34.77           | -12.69      |
|                                                    |            |                 |            | 50      | 0         | 21.97                   | 22.06             | 24.21              | 36.99               | 34.77           | -12.71      |

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LTE Band 13

Antenna gain (dBi) 1.48

| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 23205      | 779.5           | QPSK       | 1       | 0         | 23.50                   | 24.98             | 27.13              | 36.99               | 34.77           | -9.79       |
|                                                    |            |                 |            | 1       | 24        | 23.83                   | 25.31             | 27.46              | 36.99               | 34.77           | -9.46       |
|                                                    |            |                 |            | 12      | 6         | 23.01                   | 24.49             | 26.64              | 36.99               | 34.77           | -10.28      |
|                                                    |            |                 |            | 25      | 0         | 22.97                   | 24.45             | 26.60              | 36.99               | 34.77           | -10.32      |
|                                                    | 23230      | 782             | QPSK       | 1       | 0         | 24.08                   | 25.56             | 27.71              | 36.99               | 34.77           | -9.21       |
|                                                    |            |                 |            | 1       | 24        | 23.97                   | 25.45             | 27.60              | 36.99               | 34.77           | -9.32       |
|                                                    |            |                 |            | 12      | 6         | 23.09                   | 24.57             | 26.72              | 36.99               | 34.77           | -10.2       |
|                                                    |            |                 |            | 25      | 0         | 23.04                   | 24.52             | 26.67              | 36.99               | 34.77           | -10.25      |
|                                                    | 23255      | 784.5           | QPSK       | 1       | 0         | 23.92                   | 25.40             | 27.55              | 36.99               | 34.77           | -9.37       |
|                                                    |            |                 |            | 1       | 24        | 23.87                   | 25.35             | 27.50              | 36.99               | 34.77           | -9.42       |
|                                                    |            |                 |            | 12      | 6         | 23.06                   | 24.54             | 26.69              | 36.99               | 34.77           | -10.23      |
|                                                    |            |                 |            | 25      | 0         | 22.95                   | 24.43             | 26.58              | 36.99               | 34.77           | -10.34      |
|                                                    | 23205      | 779.5           | 16QAM      | 1       | 0         | 22.70                   | 24.18             | 26.33              | 36.99               | 34.77           | -10.59      |
|                                                    |            |                 |            | 1       | 24        | 23.16                   | 24.64             | 26.79              | 36.99               | 34.77           | -10.13      |
|                                                    |            |                 |            | 12      | 6         | 21.98                   | 23.46             | 25.61              | 36.99               | 34.77           | -11.31      |
|                                                    |            |                 |            | 25      | 0         | 21.96                   | 23.44             | 25.59              | 36.99               | 34.77           | -11.33      |
|                                                    | 23230      | 782             | 16QAM      | 1       | 0         | 23.17                   | 24.65             | 26.80              | 36.99               | 34.77           | -10.12      |
|                                                    |            |                 |            | 1       | 24        | 23.16                   | 24.64             | 26.79              | 36.99               | 34.77           | -10.13      |
|                                                    |            |                 |            | 12      | 6         | 22.13                   | 23.61             | 25.76              | 36.99               | 34.77           | -11.16      |
|                                                    |            |                 |            | 25      | 0         | 22.11                   | 23.59             | 25.74              | 36.99               | 34.77           | -11.18      |
|                                                    | 23255      | 784.5           | 16QAM      | 1       | 0         | 23.00                   | 24.48             | 26.63              | 36.99               | 34.77           | -10.29      |
|                                                    |            |                 |            | 1       | 24        | 22.95                   | 24.43             | 26.58              | 36.99               | 34.77           | -10.34      |
|                                                    |            |                 |            | 12      | 6         | 22.11                   | 23.59             | 25.74              | 36.99               | 34.77           | -11.18      |
|                                                    |            |                 |            | 25      | 0         | 22.01                   | 23.49             | 25.64              | 36.99               | 34.77           | -11.28      |

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LTE Band 13

Antenna gain (dBi) 1.48

| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23230      | 782             | QPSK       | 1       | 0         | 23.70                   | 25.18             | 27.33              | 36.99               | 34.77           | -9.59       |
|                                                    |            |                 |            | 1       | 49        | 23.89                   | 25.37             | 27.52              | 36.99               | 34.77           | -9.4        |
|                                                    |            |                 |            | 25      | 12        | 23.10                   | 24.58             | 26.73              | 36.99               | 34.77           | -10.19      |
|                                                    |            |                 |            | 50      | 0         | 23.05                   | 24.53             | 26.68              | 36.99               | 34.77           | -10.24      |
|                                                    | 23230      | 782             | 16QAM      | 1       | 0         | 22.98                   | 24.46             | 26.61              | 36.99               | 34.77           | -10.31      |
|                                                    |            |                 |            | 1       | 49        | 23.25                   | 24.73             | 26.88              | 36.99               | 34.77           | -10.04      |
|                                                    |            |                 |            | 25      | 12        | 22.10                   | 23.58             | 25.73              | 36.99               | 34.77           | -11.19      |
|                                                    |            |                 |            | 50      | 0         | 22.06                   | 23.54             | 25.69              | 36.99               | 34.77           | -11.23      |

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25\_Uplink frequency band : 1850 to 1915 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 1.4       | 26047      | 1850.7          | QPSK       | 1       | 0         | 21.81                   | 22.90              | 33               | -10.1       |
|           |            |                 |            | 1       | 5         | 21.64                   | 22.73              | 33               | -10.27      |
|           |            |                 |            | 3       | 2         | 21.90                   | 22.99              | 33               | -10.01      |
|           |            |                 |            | 6       | 0         | 20.85                   | 21.94              | 33               | -11.06      |
|           | 26365      | 1882.5          | QPSK       | 1       | 0         | 21.88                   | 22.97              | 33               | -10.03      |
|           |            |                 |            | 1       | 5         | 21.94                   | 23.03              | 33               | -9.97       |
|           |            |                 |            | 3       | 2         | 21.93                   | 23.02              | 33               | -9.98       |
|           |            |                 |            | 6       | 0         | 21.00                   | 22.09              | 33               | -10.91      |
|           | 26683      | 1914.3          | QPSK       | 1       | 0         | 22.00                   | 23.09              | 33               | -9.91       |
|           |            |                 |            | 1       | 5         | 21.97                   | 23.06              | 33               | -9.94       |
|           |            |                 |            | 3       | 2         | 21.98                   | 23.07              | 33               | -9.93       |
|           |            |                 |            | 6       | 0         | 20.93                   | 22.02              | 33               | -10.98      |
|           | 26047      | 1850.7          | 16QAM      | 1       | 0         | 21.10                   | 22.19              | 33               | -10.81      |
|           |            |                 |            | 1       | 5         | 20.91                   | 22.00              | 33               | -11         |
|           |            |                 |            | 3       | 2         | 21.02                   | 22.11              | 33               | -10.89      |
|           |            |                 |            | 6       | 0         | 19.93                   | 21.02              | 33               | -11.98      |
|           | 26365      | 1882.5          | 16QAM      | 1       | 0         | 20.98                   | 22.07              | 33               | -10.93      |
|           |            |                 |            | 1       | 5         | 21.06                   | 22.15              | 33               | -10.85      |
|           |            |                 |            | 3       | 2         | 20.99                   | 22.08              | 33               | -10.92      |
|           |            |                 |            | 6       | 0         | 20.11                   | 21.20              | 33               | -11.8       |
|           | 26683      | 1914.3          | 16QAM      | 1       | 0         | 21.34                   | 22.43              | 33               | -10.57      |
|           |            |                 |            | 1       | 5         | 21.36                   | 22.45              | 33               | -10.55      |
|           |            |                 |            | 3       | 2         | 21.05                   | 22.14              | 33               | -10.86      |
|           |            |                 |            | 6       | 0         | 20.00                   | 21.09              | 33               | -11.91      |

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LTE Band 25

Antenna gain (dBi)

1.09

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                    | 26055      | 1851.5          | QPSK       | 1       | 0         | 22.01                   | 23.10              | 33               | -9.9        |
|                                                      |            |                 |            | 1       | 14        | 21.74                   | 22.83              | 33               | -10.17      |
|                                                      |            |                 |            | 8       | 4         | 21.00                   | 22.09              | 33               | -10.91      |
|                                                      |            |                 |            | 15      | 0         | 20.97                   | 22.06              | 33               | -10.94      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 22.01                   | 23.10              | 33               | -9.9        |
|                                                      |            |                 |            | 1       | 14        | 22.13                   | 23.22              | 33               | -9.78       |
|                                                      |            |                 |            | 8       | 4         | 21.11                   | 22.20              | 33               | -10.8       |
|                                                      |            |                 |            | 15      | 0         | 21.08                   | 22.17              | 33               | -10.83      |
|                                                      | 26675      | 1913.5          | QPSK       | 1       | 0         | 22.10                   | 23.19              | 33               | -9.81       |
|                                                      |            |                 |            | 1       | 14        | 22.05                   | 23.14              | 33               | -9.86       |
|                                                      |            |                 |            | 8       | 4         | 21.09                   | 22.18              | 33               | -10.82      |
|                                                      |            |                 |            | 15      | 0         | 21.04                   | 22.13              | 33               | -10.87      |
|                                                      | 26055      | 1851.5          | 16QAM      | 1       | 0         | 20.64                   | 21.73              | 33               | -11.27      |
|                                                      |            |                 |            | 1       | 14        | 20.87                   | 21.96              | 33               | -11.04      |
|                                                      |            |                 |            | 8       | 4         | 19.97                   | 21.06              | 33               | -11.94      |
|                                                      |            |                 |            | 15      | 0         | 19.78                   | 20.87              | 33               | -12.13      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 20.91                   | 22.00              | 33               | -11         |
|                                                      |            |                 |            | 1       | 14        | 20.77                   | 21.86              | 33               | -11.14      |
|                                                      |            |                 |            | 8       | 4         | 20.16                   | 21.25              | 33               | -11.75      |
|                                                      |            |                 |            | 15      | 0         | 20.12                   | 21.21              | 33               | -11.79      |
|                                                      | 26675      | 1913.5          | 16QAM      | 1       | 0         | 21.40                   | 22.49              | 33               | -10.51      |
|                                                      |            |                 |            | 1       | 14        | 21.27                   | 22.36              | 33               | -10.64      |
|                                                      |            |                 |            | 8       | 4         | 20.09                   | 21.18              | 33               | -11.82      |
|                                                      |            |                 |            | 15      | 0         | 20.09                   | 21.18              | 33               | -11.82      |

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LTE Band 25

Antenna gain (dBi)

1.09

## LTE Band 25\_Uplink frequency band : 1850 to 1915 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 26065      | 1852.5          | QPSK       | 1       | 0         | 22.09                   | 23.18              | 33               | -9.82       |
|           |            |                 |            | 1       | 24        | 21.86                   | 22.95              | 33               | -10.05      |
|           |            |                 |            | 12      | 6         | 21.01                   | 22.10              | 33               | -10.9       |
|           |            |                 |            | 25      | 0         | 20.93                   | 22.02              | 33               | -10.98      |
|           | 26365      | 1882.5          | QPSK       | 1       | 0         | 22.02                   | 23.11              | 33               | -9.89       |
|           |            |                 |            | 1       | 24        | 22.05                   | 23.14              | 33               | -9.86       |
|           |            |                 |            | 12      | 6         | 21.12                   | 22.21              | 33               | -10.79      |
|           |            |                 |            | 25      | 0         | 21.06                   | 22.15              | 33               | -10.85      |
|           | 26665      | 1912.5          | QPSK       | 1       | 0         | 21.80                   | 22.89              | 33               | -10.11      |
|           |            |                 |            | 1       | 24        | 22.05                   | 23.14              | 33               | -9.86       |
|           |            |                 |            | 12      | 6         | 21.10                   | 22.19              | 33               | -10.81      |
|           |            |                 |            | 25      | 0         | 21.09                   | 22.18              | 33               | -10.82      |
|           | 26065      | 1852.5          | 16QAM      | 1       | 0         | 21.00                   | 22.09              | 33               | -10.91      |
|           |            |                 |            | 1       | 24        | 20.93                   | 22.02              | 33               | -10.98      |
|           |            |                 |            | 12      | 6         | 19.97                   | 21.06              | 33               | -11.94      |
|           |            |                 |            | 25      | 0         | 19.95                   | 21.04              | 33               | -11.96      |
|           | 26365      | 1882.5          | 16QAM      | 1       | 0         | 20.91                   | 22.00              | 33               | -11         |
|           |            |                 |            | 1       | 24        | 20.68                   | 21.77              | 33               | -11.23      |
|           |            |                 |            | 12      | 6         | 20.16                   | 21.25              | 33               | -11.75      |
|           |            |                 |            | 25      | 0         | 20.10                   | 21.19              | 33               | -11.81      |
|           | 26665      | 1912.5          | 16QAM      | 1       | 0         | 21.23                   | 22.32              | 33               | -10.68      |
|           |            |                 |            | 1       | 24        | 21.31                   | 22.40              | 33               | -10.6       |
|           |            |                 |            | 12      | 6         | 20.08                   | 21.17              | 33               | -11.83      |
|           |            |                 |            | 25      | 0         | 20.11                   | 21.20              | 33               | -11.8       |

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LTE Band 25

Antenna gain (dBi)

1.09

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 26090      | 1855            | QPSK       | 1       | 0         | 21.99                   | 23.08              | 33               | -9.92       |
|                                                      |            |                 |            | 1       | 49        | 21.83                   | 22.92              | 33               | -10.08      |
|                                                      |            |                 |            | 25      | 12        | 21.06                   | 22.15              | 33               | -10.85      |
|                                                      |            |                 |            | 50      | 0         | 21.03                   | 22.12              | 33               | -10.88      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 22.21                   | 23.30              | 33               | -9.7        |
|                                                      |            |                 |            | 1       | 49        | 22.14                   | 23.23              | 33               | -9.77       |
|                                                      |            |                 |            | 25      | 12        | 21.08                   | 22.17              | 33               | -10.83      |
|                                                      |            |                 |            | 50      | 0         | 21.23                   | 22.32              | 33               | -10.68      |
|                                                      | 26640      | 1910            | QPSK       | 1       | 0         | 22.31                   | 23.40              | 33               | -9.6        |
|                                                      |            |                 |            | 1       | 49        | 22.16                   | 23.25              | 33               | -9.75       |
|                                                      |            |                 |            | 25      | 12        | 21.11                   | 22.20              | 33               | -10.8       |
|                                                      |            |                 |            | 50      | 0         | 21.11                   | 22.20              | 33               | -10.8       |
|                                                      | 26090      | 1855            | 16QAM      | 1       | 0         | 21.36                   | 22.45              | 33               | -10.55      |
|                                                      |            |                 |            | 1       | 49        | 21.16                   | 22.25              | 33               | -10.75      |
|                                                      |            |                 |            | 25      | 12        | 19.92                   | 21.01              | 33               | -11.99      |
|                                                      |            |                 |            | 50      | 0         | 19.94                   | 21.03              | 33               | -11.97      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 20.57                   | 21.66              | 33               | -11.34      |
|                                                      |            |                 |            | 1       | 49        | 21.41                   | 22.50              | 33               | -10.5       |
|                                                      |            |                 |            | 25      | 12        | 20.13                   | 21.22              | 33               | -11.78      |
|                                                      |            |                 |            | 50      | 0         | 20.13                   | 21.22              | 33               | -11.78      |
|                                                      | 26640      | 1910            | 16QAM      | 1       | 0         | 21.13                   | 22.22              | 33               | -10.78      |
|                                                      |            |                 |            | 1       | 49        | 20.01                   | 21.10              | 33               | -11.9       |
|                                                      |            |                 |            | 25      | 12        | 19.98                   | 21.07              | 33               | -11.93      |
|                                                      |            |                 |            | 50      | 0         | 20.14                   | 21.23              | 33               | -11.77      |

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25\_Uplink frequency band : 1850 to 1915 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 26115      | 1857.5          | QPSK       | 1       | 0         | 22.22                   | 23.31              | 33               | -9.69       |
|           |            |                 |            | 1       | 74        | 21.98                   | 23.07              | 33               | -9.93       |
|           |            |                 |            | 36      | 19        | 21.07                   | 22.16              | 33               | -10.84      |
|           |            |                 |            | 75      | 0         | 20.11                   | 21.20              | 33               | -11.8       |
|           | 26365      | 1882.5          | QPSK       | 1       | 0         | 22.23                   | 23.32              | 33               | -9.68       |
|           |            |                 |            | 1       | 74        | 22.15                   | 23.24              | 33               | -9.76       |
|           |            |                 |            | 36      | 19        | 21.09                   | 22.18              | 33               | -10.82      |
|           |            |                 |            | 75      | 0         | 21.11                   | 22.20              | 33               | -10.8       |
|           | 26615      | 1907.5          | QPSK       | 1       | 0         | 22.21                   | 23.30              | 33               | -9.7        |
|           |            |                 |            | 1       | 74        | 22.05                   | 23.14              | 33               | -9.86       |
|           |            |                 |            | 36      | 19        | 21.18                   | 22.27              | 33               | -10.73      |
|           |            |                 |            | 75      | 0         | 21.14                   | 22.23              | 33               | -10.77      |
|           | 26115      | 1857.5          | 16QAM      | 1       | 0         | 21.70                   | 22.79              | 33               | -10.21      |
|           |            |                 |            | 1       | 74        | 21.42                   | 22.51              | 33               | -10.49      |
|           |            |                 |            | 36      | 19        | 20.07                   | 21.16              | 33               | -11.84      |
|           |            |                 |            | 75      | 0         | 20.07                   | 21.16              | 33               | -11.84      |
|           | 26365      | 1882.5          | 16QAM      | 1       | 0         | 20.72                   | 21.81              | 33               | -11.19      |
|           |            |                 |            | 1       | 74        | 21.43                   | 22.52              | 33               | -10.48      |
|           |            |                 |            | 36      | 19        | 20.17                   | 21.26              | 33               | -11.74      |
|           |            |                 |            | 75      | 0         | 19.19                   | 20.28              | 33               | -12.72      |
|           | 26615      | 1907.5          | 16QAM      | 1       | 0         | 21.42                   | 22.51              | 33               | -10.49      |
|           |            |                 |            | 1       | 74        | 21.24                   | 22.33              | 33               | -10.67      |
|           |            |                 |            | 36      | 19        | 20.03                   | 21.12              | 33               | -11.88      |
|           |            |                 |            | 75      | 0         | 20.13                   | 21.22              | 33               | -11.78      |

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LTE Band 25

Antenna gain (dBi)

1.09

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 26140      | 1860            | QPSK       | 1       | 0         | 22.22                   | 23.31              | 33               | -9.69       |
|                                                      |            |                 |            | 1       | 99        | 21.96                   | 23.05              | 33               | -9.95       |
|                                                      |            |                 |            | 50      | 25        | 21.26                   | 22.35              | 33               | -10.65      |
|                                                      |            |                 |            | 100     | 0         | 21.12                   | 22.21              | 33               | -10.79      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 22.22                   | 23.31              | 33               | -9.69       |
|                                                      |            |                 |            | 1       | 99        | 22.13                   | 23.22              | 33               | -9.78       |
|                                                      |            |                 |            | 50      | 25        | 21.35                   | 22.44              | 33               | -10.56      |
|                                                      |            |                 |            | 100     | 0         | 21.15                   | 22.24              | 33               | -10.76      |
|                                                      | 26590      | 1905            | QPSK       | 1       | 0         | 22.20                   | 23.29              | 33               | -9.71       |
|                                                      |            |                 |            | 1       | 99        | 21.97                   | 23.06              | 33               | -9.94       |
|                                                      |            |                 |            | 50      | 25        | 21.28                   | 22.37              | 33               | -10.63      |
|                                                      |            |                 |            | 100     | 0         | 21.06                   | 22.15              | 33               | -10.85      |
|                                                      | 26140      | 1860            | 16QAM      | 1       | 0         | 21.36                   | 22.45              | 33               | -10.55      |
|                                                      |            |                 |            | 1       | 99        | 21.14                   | 22.23              | 33               | -10.77      |
|                                                      |            |                 |            | 50      | 25        | 20.00                   | 21.09              | 33               | -11.91      |
|                                                      |            |                 |            | 100     | 0         | 20.11                   | 21.20              | 33               | -11.8       |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 21.31                   | 22.40              | 33               | -10.6       |
|                                                      |            |                 |            | 1       | 99        | 21.00                   | 22.09              | 33               | -10.91      |
|                                                      |            |                 |            | 50      | 25        | 20.16                   | 21.25              | 33               | -11.75      |
|                                                      |            |                 |            | 100     | 0         | 20.17                   | 21.26              | 33               | -11.74      |
|                                                      | 26590      | 1905            | 16QAM      | 1       | 0         | 21.39                   | 22.48              | 33               | -10.52      |
|                                                      |            |                 |            | 1       | 99        | 21.20                   | 22.29              | 33               | -10.71      |
|                                                      |            |                 |            | 50      | 25        | 20.05                   | 21.14              | 33               | -11.86      |
|                                                      |            |                 |            | 100     | 0         | 20.04                   | 21.13              | 33               | -11.87      |

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LTE Band 26

Antenna gain (dBi) 0.72

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                                | 26797      | 824.7           | QPSK       | 1       | 0         | 23.87                   | 24.59             | 26.74              | 40.6                | 38.45           | -13.86      |
|                                                    |            |                 |            | 1       | 5         | 23.88                   | 24.60             | 26.75              | 40.6                | 38.45           | -13.85      |
|                                                    |            |                 |            | 3       | 2         | 23.93                   | 24.65             | 26.80              | 40.6                | 38.45           | -13.8       |
|                                                    |            |                 |            | 6       | 0         | 22.92                   | 23.64             | 25.79              | 40.6                | 38.45           | -14.81      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 24.00                   | 24.72             | 26.87              | 40.6                | 38.45           | -13.73      |
|                                                    |            |                 |            | 1       | 5         | 23.96                   | 24.68             | 26.83              | 40.6                | 38.45           | -13.77      |
|                                                    |            |                 |            | 3       | 2         | 24.02                   | 24.74             | 26.89              | 40.6                | 38.45           | -13.71      |
|                                                    |            |                 |            | 6       | 0         | 23.00                   | 23.72             | 25.87              | 40.6                | 38.45           | -14.73      |
|                                                    | 27033      | 848.3           | QPSK       | 1       | 0         | 23.88                   | 24.60             | 26.75              | 40.6                | 38.45           | -13.85      |
|                                                    |            |                 |            | 1       | 5         | 23.85                   | 24.57             | 26.72              | 40.6                | 38.45           | -13.88      |
|                                                    |            |                 |            | 3       | 2         | 23.94                   | 24.66             | 26.81              | 40.6                | 38.45           | -13.79      |
|                                                    |            |                 |            | 6       | 0         | 22.95                   | 23.67             | 25.82              | 40.6                | 38.45           | -14.78      |
|                                                    | 26797      | 824.7           | 16QAM      | 1       | 0         | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    |            |                 |            | 1       | 5         | 23.01                   | 23.73             | 25.88              | 40.6                | 38.45           | -14.72      |
|                                                    |            |                 |            | 3       | 2         | 23.00                   | 23.72             | 25.87              | 40.6                | 38.45           | -14.73      |
|                                                    |            |                 |            | 6       | 0         | 21.95                   | 22.67             | 24.82              | 40.6                | 38.45           | -15.78      |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 23.27                   | 23.99             | 26.14              | 40.6                | 38.45           | -14.46      |
|                                                    |            |                 |            | 1       | 5         | 23.21                   | 23.93             | 26.08              | 40.6                | 38.45           | -14.52      |
|                                                    |            |                 |            | 3       | 2         | 23.09                   | 23.81             | 25.96              | 40.6                | 38.45           | -14.64      |
|                                                    |            |                 |            | 6       | 0         | 22.07                   | 22.79             | 24.94              | 40.6                | 38.45           | -15.66      |
|                                                    | 27033      | 848.3           | 16QAM      | 1       | 0         | 23.31                   | 24.03             | 26.18              | 40.6                | 38.45           | -14.42      |
|                                                    |            |                 |            | 1       | 5         | 23.37                   | 24.09             | 26.24              | 40.6                | 38.45           | -14.36      |
|                                                    |            |                 |            | 3       | 2         | 23.02                   | 23.74             | 25.89              | 40.6                | 38.45           | -14.71      |
|                                                    |            |                 |            | 6       | 0         | 22.02                   | 22.74             | 24.89              | 40.6                | 38.45           | -15.71      |

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LTE Band 26

Antenna gain (dBi) 0.72

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                  | 26805      | 825.5           | QPSK       | 1       | 0         | 24.14                   | 24.86             | 27.01              | 40.6                | 38.45           | -13.59      |
|                                                    |            |                 |            | 1       | 14        | 24.13                   | 24.85             | 27.00              | 40.6                | 38.45           | -13.6       |
|                                                    |            |                 |            | 8       | 4         | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    |            |                 |            | 15      | 0         | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 23.97                   | 24.69             | 26.84              | 40.6                | 38.45           | -13.76      |
|                                                    |            |                 |            | 1       | 14        | 23.95                   | 24.67             | 26.82              | 40.6                | 38.45           | -13.78      |
|                                                    |            |                 |            | 8       | 4         | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    |            |                 |            | 15      | 0         | 23.14                   | 23.86             | 26.01              | 40.6                | 38.45           | -14.59      |
|                                                    | 27025      | 847.5           | QPSK       | 1       | 0         | 24.04                   | 24.76             | 26.91              | 40.6                | 38.45           | -13.69      |
|                                                    |            |                 |            | 1       | 14        | 24.01                   | 24.73             | 26.88              | 40.6                | 38.45           | -13.72      |
|                                                    |            |                 |            | 8       | 4         | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    |            |                 |            | 15      | 0         | 23.07                   | 23.79             | 25.94              | 40.6                | 38.45           | -14.66      |
|                                                    | 26805      | 825.5           | 16QAM      | 1       | 0         | 23.24                   | 23.96             | 26.11              | 40.6                | 38.45           | -14.49      |
|                                                    |            |                 |            | 1       | 14        | 23.19                   | 23.91             | 26.06              | 40.6                | 38.45           | -14.54      |
|                                                    |            |                 |            | 8       | 4         | 22.24                   | 22.96             | 25.11              | 40.6                | 38.45           | -15.49      |
|                                                    |            |                 |            | 15      | 0         | 22.16                   | 22.88             | 25.03              | 40.6                | 38.45           | -15.57      |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 23.17                   | 23.89             | 26.04              | 40.6                | 38.45           | -14.56      |
|                                                    |            |                 |            | 1       | 14        | 23.08                   | 23.80             | 25.95              | 40.6                | 38.45           | -14.65      |
|                                                    |            |                 |            | 8       | 4         | 22.11                   | 22.83             | 24.98              | 40.6                | 38.45           | -15.62      |
|                                                    |            |                 |            | 15      | 0         | 22.05                   | 22.77             | 24.92              | 40.6                | 38.45           | -15.68      |
|                                                    | 27025      | 847.5           | 16QAM      | 1       | 0         | 23.21                   | 23.93             | 26.08              | 40.6                | 38.45           | -14.52      |
|                                                    |            |                 |            | 1       | 14        | 23.33                   | 24.05             | 26.20              | 40.6                | 38.45           | -14.4       |
|                                                    |            |                 |            | 8       | 4         | 22.14                   | 22.86             | 25.01              | 40.6                | 38.45           | -15.59      |
|                                                    |            |                 |            | 15      | 0         | 22.09                   | 22.81             | 24.96              | 40.6                | 38.45           | -15.64      |

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LTE Band 26

Antenna gain (dBi) 0.72

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 26815      | 826.5           | QPSK       | 1       | 0         | 24.09                   | 24.81             | 26.96              | 40.6                | 38.45           | -13.64      |
|                                                    |            |                 |            | 1       | 24        | 24.06                   | 24.78             | 26.93              | 40.6                | 38.45           | -13.67      |
|                                                    |            |                 |            | 12      | 6         | 23.13                   | 23.85             | 26.00              | 40.6                | 38.45           | -14.6       |
|                                                    |            |                 |            | 25      | 0         | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 24.10                   | 24.82             | 26.97              | 40.6                | 38.45           | -13.63      |
|                                                    |            |                 |            | 1       | 24        | 24.06                   | 24.78             | 26.93              | 40.6                | 38.45           | -13.67      |
|                                                    |            |                 |            | 12      | 6         | 23.13                   | 23.85             | 26.00              | 40.6                | 38.45           | -14.6       |
|                                                    |            |                 |            | 25      | 0         | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    | 27015      | 846.5           | QPSK       | 1       | 0         | 24.05                   | 24.77             | 26.92              | 40.6                | 38.45           | -13.68      |
|                                                    |            |                 |            | 1       | 24        | 24.02                   | 24.74             | 26.89              | 40.6                | 38.45           | -13.71      |
|                                                    |            |                 |            | 12      | 6         | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    |            |                 |            | 25      | 0         | 23.07                   | 23.79             | 25.94              | 40.6                | 38.45           | -14.66      |
|                                                    | 26815      | 826.5           | 16QAM      | 1       | 0         | 23.50                   | 24.22             | 26.37              | 40.6                | 38.45           | -14.23      |
|                                                    |            |                 |            | 1       | 24        | 23.38                   | 24.10             | 26.25              | 40.6                | 38.45           | -14.35      |
|                                                    |            |                 |            | 12      | 6         | 22.10                   | 22.82             | 24.97              | 40.6                | 38.45           | -15.63      |
|                                                    |            |                 |            | 25      | 0         | 22.12                   | 22.84             | 24.99              | 40.6                | 38.45           | -15.61      |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 23.35                   | 24.07             | 26.22              | 40.6                | 38.45           | -14.38      |
|                                                    |            |                 |            | 1       | 24        | 23.25                   | 23.97             | 26.12              | 40.6                | 38.45           | -14.48      |
|                                                    |            |                 |            | 12      | 6         | 22.07                   | 22.79             | 24.94              | 40.6                | 38.45           | -15.66      |
|                                                    |            |                 |            | 25      | 0         | 22.05                   | 22.77             | 24.92              | 40.6                | 38.45           | -15.68      |
|                                                    | 27015      | 846.5           | 16QAM      | 1       | 0         | 23.50                   | 24.22             | 26.37              | 40.6                | 38.45           | -14.23      |
|                                                    |            |                 |            | 1       | 24        | 23.40                   | 24.12             | 26.27              | 40.6                | 38.45           | -14.33      |
|                                                    |            |                 |            | 12      | 6         | 22.12                   | 22.84             | 24.99              | 40.6                | 38.45           | -15.61      |
|                                                    |            |                 |            | 25      | 0         | 22.03                   | 22.75             | 24.90              | 40.6                | 38.45           | -15.7       |

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LTE Band 26

Antenna gain (dBi) 0.72

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 26840      | 829             | QPSK       | 1       | 0         | 24.10                   | 24.82             | 26.97              | 40.6                | 38.45           | -13.63      |
|                                                    |            |                 |            | 1       | 49        | 23.99                   | 24.71             | 26.86              | 40.6                | 38.45           | -13.74      |
|                                                    |            |                 |            | 25      | 12        | 23.14                   | 23.86             | 26.01              | 40.6                | 38.45           | -14.59      |
|                                                    |            |                 |            | 50      | 0         | 23.07                   | 23.79             | 25.94              | 40.6                | 38.45           | -14.66      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 24.06                   | 24.78             | 26.93              | 40.6                | 38.45           | -13.67      |
|                                                    |            |                 |            | 1       | 49        | 23.97                   | 24.69             | 26.84              | 40.6                | 38.45           | -13.76      |
|                                                    |            |                 |            | 25      | 12        | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    |            |                 |            | 50      | 0         | 23.09                   | 23.81             | 25.96              | 40.6                | 38.45           | -14.64      |
|                                                    | 26990      | 844             | QPSK       | 1       | 0         | 24.13                   | 24.85             | 27.00              | 40.6                | 38.45           | -13.6       |
|                                                    |            |                 |            | 1       | 49        | 23.95                   | 24.67             | 26.82              | 40.6                | 38.45           | -13.78      |
|                                                    |            |                 |            | 25      | 12        | 23.14                   | 23.86             | 26.01              | 40.6                | 38.45           | -14.59      |
|                                                    |            |                 |            | 50      | 0         | 23.11                   | 23.83             | 25.98              | 40.6                | 38.45           | -14.62      |
|                                                    | 26840      | 829             | 16QAM      | 1       | 0         | 23.24                   | 23.96             | 26.11              | 40.6                | 38.45           | -14.49      |
|                                                    |            |                 |            | 1       | 49        | 22.96                   | 23.68             | 25.83              | 40.6                | 38.45           | -14.77      |
|                                                    |            |                 |            | 25      | 12        | 22.11                   | 22.83             | 24.98              | 40.6                | 38.45           | -15.62      |
|                                                    |            |                 |            | 50      | 0         | 22.13                   | 22.85             | 25.00              | 40.6                | 38.45           | -15.6       |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 23.15                   | 23.87             | 26.02              | 40.6                | 38.45           | -14.58      |
|                                                    |            |                 |            | 1       | 49        | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    |            |                 |            | 25      | 12        | 22.12                   | 22.84             | 24.99              | 40.6                | 38.45           | -15.61      |
|                                                    |            |                 |            | 50      | 0         | 22.05                   | 22.77             | 24.92              | 40.6                | 38.45           | -15.68      |
|                                                    | 26990      | 844             | 16QAM      | 1       | 0         | 23.50                   | 24.22             | 26.37              | 40.6                | 38.45           | -14.23      |
|                                                    |            |                 |            | 1       | 49        | 23.36                   | 24.08             | 26.23              | 40.6                | 38.45           | -14.37      |
|                                                    |            |                 |            | 25      | 12        | 22.16                   | 22.88             | 25.03              | 40.6                | 38.45           | -15.57      |
|                                                    |            |                 |            | 50      | 0         | 22.12                   | 22.84             | 24.99              | 40.6                | 38.45           | -15.61      |

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LTE Band 26

Antenna gain (dBi) 0.72

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                     |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|---------------------|-----------------|-------------|
| Bandwidth                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | IC EIRP Limit (dBm) | ERP Limit (dBm) | Margin (dB) |
| 15                                                 | 26865      | 831.5           | QPSK       | 1       | 0         | 24.11                   | 24.83             | 26.98              | 40.6                | 38.45           | -13.62      |
|                                                    |            |                 |            | 1       | 74        | 23.92                   | 24.64             | 26.79              | 40.6                | 38.45           | -13.81      |
|                                                    |            |                 |            | 36      | 19        | 23.14                   | 23.86             | 26.01              | 40.6                | 38.45           | -14.59      |
|                                                    |            |                 |            | 75      | 0         | 23.09                   | 23.81             | 25.96              | 40.6                | 38.45           | -14.64      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 24.21                   | 24.93             | 27.08              | 40.6                | 38.45           | -13.52      |
|                                                    |            |                 |            | 1       | 74        | 23.95                   | 24.67             | 26.82              | 40.6                | 38.45           | -13.78      |
|                                                    |            |                 |            | 36      | 19        | 23.14                   | 23.86             | 26.01              | 40.6                | 38.45           | -14.59      |
|                                                    |            |                 |            | 75      | 0         | 23.10                   | 23.82             | 25.97              | 40.6                | 38.45           | -14.63      |
|                                                    | 26965      | 841.5           | QPSK       | 1       | 0         | 24.23                   | 24.95             | 27.10              | 40.6                | 38.45           | -13.5       |
|                                                    |            |                 |            | 1       | 74        | 23.97                   | 24.69             | 26.84              | 40.6                | 38.45           | -13.76      |
|                                                    |            |                 |            | 36      | 19        | 23.18                   | 23.90             | 26.05              | 40.6                | 38.45           | -14.55      |
|                                                    |            |                 |            | 75      | 0         | 23.16                   | 23.88             | 26.03              | 40.6                | 38.45           | -14.57      |
|                                                    | 26865      | 831.5           | 16QAM      | 1       | 0         | 23.37                   | 24.09             | 26.24              | 40.6                | 38.45           | -14.36      |
|                                                    |            |                 |            | 1       | 74        | 23.18                   | 23.90             | 26.05              | 40.6                | 38.45           | -14.55      |
|                                                    |            |                 |            | 36      | 19        | 22.11                   | 22.83             | 24.98              | 40.6                | 38.45           | -15.62      |
|                                                    |            |                 |            | 75      | 0         | 22.13                   | 22.85             | 25.00              | 40.6                | 38.45           | -15.6       |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 23.44                   | 24.16             | 26.31              | 40.6                | 38.45           | -14.29      |
|                                                    |            |                 |            | 1       | 74        | 23.20                   | 23.92             | 26.07              | 40.6                | 38.45           | -14.53      |
|                                                    |            |                 |            | 36      | 19        | 22.17                   | 22.89             | 25.04              | 40.6                | 38.45           | -15.56      |
|                                                    |            |                 |            | 75      | 0         | 22.17                   | 22.89             | 25.04              | 40.6                | 38.45           | -15.56      |
|                                                    | 26965      | 841.5           | 16QAM      | 1       | 0         | 23.46                   | 24.18             | 26.33              | 40.6                | 38.45           | -14.27      |
|                                                    |            |                 |            | 1       | 74        | 23.48                   | 24.20             | 26.35              | 40.6                | 38.45           | -14.25      |
|                                                    |            |                 |            | 36      | 19        | 22.14                   | 22.86             | 25.01              | 40.6                | 38.45           | -15.59      |
|                                                    |            |                 |            | 75      | 0         | 22.14                   | 22.86             | 25.01              | 40.6                | 38.45           | -15.59      |

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LTE Band 26 for Part 90S

Antenna gain (dBi) 0.72

## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP / EIRP Average (dBm) | ERP / EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------------|------------------------|-------------|
| 1.4       | 26697      | 814.7           | QPSK       | 1       | 0         | 23.94                   | 24.66                    | 50                     | -25.34      |
|           |            |                 |            | 1       | 5         | 23.88                   | 24.60                    | 50                     | -25.4       |
|           |            |                 |            | 3       | 2         | 23.87                   | 24.59                    | 50                     | -25.41      |
|           |            |                 |            | 6       | 0         | 22.87                   | 23.59                    | 50                     | -26.41      |
|           | 26740      | 819             | QPSK       | 1       | 0         | 24.03                   | 24.75                    | 50                     | -25.25      |
|           |            |                 |            | 1       | 5         | 23.97                   | 24.69                    | 50                     | -25.31      |
|           |            |                 |            | 3       | 2         | 23.99                   | 24.71                    | 50                     | -25.29      |
|           |            |                 |            | 6       | 0         | 23.01                   | 23.73                    | 50                     | -26.27      |
|           | 26783      | 823.3           | QPSK       | 1       | 0         | 23.90                   | 24.62                    | 50                     | -25.38      |
|           |            |                 |            | 1       | 5         | 23.87                   | 24.59                    | 50                     | -25.41      |
|           |            |                 |            | 3       | 2         | 23.98                   | 24.70                    | 50                     | -25.3       |
|           |            |                 |            | 6       | 0         | 22.92                   | 23.64                    | 50                     | -26.36      |
|           | 26697      | 814.7           | 16QAM      | 1       | 0         | 22.89                   | 23.61                    | 50                     | -26.39      |
|           |            |                 |            | 1       | 5         | 22.84                   | 23.56                    | 50                     | -26.44      |
|           |            |                 |            | 3       | 2         | 22.98                   | 23.70                    | 50                     | -26.3       |
|           |            |                 |            | 6       | 0         | 21.98                   | 22.70                    | 50                     | -27.3       |
|           | 26740      | 819             | 16QAM      | 1       | 0         | 23.20                   | 23.92                    | 50                     | -26.08      |
|           |            |                 |            | 1       | 5         | 23.05                   | 23.77                    | 50                     | -26.23      |
|           |            |                 |            | 3       | 2         | 23.01                   | 23.73                    | 50                     | -26.27      |
|           |            |                 |            | 6       | 0         | 22.10                   | 22.82                    | 50                     | -27.18      |
|           | 26783      | 823.3           | 16QAM      | 1       | 0         | 23.40                   | 24.12                    | 50                     | -25.88      |
|           |            |                 |            | 1       | 5         | 23.38                   | 24.10                    | 50                     | -25.9       |
|           |            |                 |            | 3       | 2         | 22.91                   | 23.63                    | 50                     | -26.37      |
|           |            |                 |            | 6       | 0         | 21.93                   | 22.65                    | 50                     | -27.35      |

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LTE Band 26 for Part 90S

Antenna gain (dBi) 0.72

## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP / EIRP Average (dBm) | ERP / EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------------|------------------------|-------------|
| 3         | 26705      | 815.5           | QPSK       | 1       | 0         | 24.05                   | 24.77                    | 50                     | -25.23      |
|           |            |                 |            | 1       | 14        | 23.99                   | 24.71                    | 50                     | -25.29      |
|           |            |                 |            | 8       | 4         | 23.02                   | 23.74                    | 50                     | -26.26      |
|           |            |                 |            | 15      | 0         | 22.99                   | 23.71                    | 50                     | -26.29      |
|           | 26740      | 819             | QPSK       | 1       | 0         | 24.03                   | 24.75                    | 50                     | -25.25      |
|           |            |                 |            | 1       | 14        | 23.95                   | 24.67                    | 50                     | -25.33      |
|           |            |                 |            | 8       | 4         | 23.09                   | 23.81                    | 50                     | -26.19      |
|           |            |                 |            | 15      | 0         | 23.02                   | 23.74                    | 50                     | -26.26      |
|           | 26775      | 822.5           | QPSK       | 1       | 0         | 24.01                   | 24.73                    | 50                     | -25.27      |
|           |            |                 |            | 1       | 14        | 23.96                   | 24.68                    | 50                     | -25.32      |
|           |            |                 |            | 8       | 4         | 23.05                   | 23.77                    | 50                     | -26.23      |
|           |            |                 |            | 15      | 0         | 23.00                   | 23.72                    | 50                     | -26.28      |
|           | 26705      | 815.5           | 16QAM      | 1       | 0         | 23.10                   | 23.82                    | 50                     | -26.18      |
|           |            |                 |            | 1       | 14        | 23.05                   | 23.77                    | 50                     | -26.23      |
|           |            |                 |            | 8       | 4         | 22.06                   | 22.78                    | 50                     | -27.22      |
|           |            |                 |            | 15      | 0         | 21.96                   | 22.68                    | 50                     | -27.32      |
|           | 26740      | 819             | 16QAM      | 1       | 0         | 23.40                   | 24.12                    | 50                     | -25.88      |
|           |            |                 |            | 1       | 14        | 23.43                   | 24.15                    | 50                     | -25.85      |
|           |            |                 |            | 8       | 4         | 22.08                   | 22.80                    | 50                     | -27.2       |
|           |            |                 |            | 15      | 0         | 22.12                   | 22.84                    | 50                     | -27.16      |
|           | 26775      | 822.5           | 16QAM      | 1       | 0         | 23.12                   | 23.84                    | 50                     | -26.16      |
|           |            |                 |            | 1       | 14        | 23.14                   | 23.86                    | 50                     | -26.14      |
|           |            |                 |            | 8       | 4         | 22.04                   | 22.76                    | 50                     | -27.24      |
|           |            |                 |            | 15      | 0         | 22.05                   | 22.77                    | 50                     | -27.23      |

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LTE Band 26 for Part 90S

Antenna gain (dBi) 0.72

## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP / EIRP Average (dBm) | ERP / EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------------|------------------------|-------------|
| 5         | 26715      | 816.5           | QPSK       | 1       | 0         | 24.08                   | 24.80                    | 50                     | -25.2       |
|           |            |                 |            | 1       | 24        | 23.96                   | 24.68                    | 50                     | -25.32      |
|           |            |                 |            | 12      | 6         | 23.00                   | 23.72                    | 50                     | -26.28      |
|           |            |                 |            | 25      | 0         | 22.94                   | 23.66                    | 50                     | -26.34      |
|           | 26740      | 819             | QPSK       | 1       | 0         | 24.00                   | 24.72                    | 50                     | -25.28      |
|           |            |                 |            | 1       | 24        | 23.97                   | 24.69                    | 50                     | -25.31      |
|           |            |                 |            | 12      | 6         | 23.09                   | 23.81                    | 50                     | -26.19      |
|           |            |                 |            | 25      | 0         | 23.06                   | 23.78                    | 50                     | -26.22      |
|           | 26765      | 821.5           | QPSK       | 1       | 0         | 23.97                   | 24.69                    | 50                     | -25.31      |
|           |            |                 |            | 1       | 24        | 23.89                   | 24.61                    | 50                     | -25.39      |
|           |            |                 |            | 12      | 6         | 23.03                   | 23.75                    | 50                     | -26.25      |
|           |            |                 |            | 25      | 0         | 23.03                   | 23.75                    | 50                     | -26.25      |
|           | 26715      | 816.5           | 16QAM      | 1       | 0         | 23.28                   | 24.00                    | 50                     | -26         |
|           |            |                 |            | 1       | 24        | 23.20                   | 23.92                    | 50                     | -26.08      |
|           |            |                 |            | 12      | 6         | 22.02                   | 22.74                    | 50                     | -27.26      |
|           |            |                 |            | 25      | 0         | 21.93                   | 22.65                    | 50                     | -27.35      |
|           | 26740      | 819             | 16QAM      | 1       | 0         | 23.29                   | 24.01                    | 50                     | -25.99      |
|           |            |                 |            | 1       | 24        | 23.15                   | 23.87                    | 50                     | -26.13      |
|           |            |                 |            | 12      | 6         | 22.10                   | 22.82                    | 50                     | -27.18      |
|           |            |                 |            | 25      | 0         | 22.08                   | 22.80                    | 50                     | -27.2       |
|           | 26765      | 821.5           | 16QAM      | 1       | 0         | 22.97                   | 23.69                    | 50                     | -26.31      |
|           |            |                 |            | 1       | 24        | 22.92                   | 23.64                    | 50                     | -26.36      |
|           |            |                 |            | 12      | 6         | 22.09                   | 22.81                    | 50                     | -27.19      |
|           |            |                 |            | 25      | 0         | 22.03                   | 22.75                    | 50                     | -27.25      |

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LTE Band 26 for Part 90S

Antenna gain (dBi) 0.72

Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP / EIRP Average (dBm) | ERP / EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------------|------------------------|-------------|
| 10        | 26740      | 819             | QPSK       | 1       | 0         | 24.09                   | 24.81                    | 50                     | -25.19      |
|           |            |                 |            | 1       | 49        | 23.94                   | 24.66                    | 50                     | -25.34      |
|           |            |                 |            | 25      | 12        | 23.12                   | 23.84                    | 50                     | -26.16      |
|           |            |                 |            | 50      | 0         | 23.09                   | 23.81                    | 50                     | -26.19      |
|           | 26740      | 819             | 16QAM      | 1       | 0         | 23.25                   | 23.97                    | 50                     | -26.03      |
|           |            |                 |            | 1       | 49        | 23.14                   | 23.86                    | 50                     | -26.14      |
|           |            |                 |            | 25      | 12        | 22.10                   | 22.82                    | 50                     | -27.18      |
|           |            |                 |            | 50      | 0         | 22.10                   | 22.82                    | 50                     | -27.18      |

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LTE Band 30

Antenna gain (dBi)

0.95

LTE Band 30\_Uplink frequency band : 2305 to 2315 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 27685      | 2307.5          | QPSK       | 1       | 0         | 23.04                   | 23.99              | 24               | -0.01       |
|           |            |                 |            | 1       | 24        | 23.04                   | 23.99              | 24               | -0.01       |
|           |            |                 |            | 12      | 6         | 22.66                   | 23.61              | 24               | -0.39       |
|           |            |                 |            | 25      | 0         | 22.64                   | 23.59              | 24               | -0.41       |
|           | 27710      | 2310            | QPSK       | 1       | 0         | 23.01                   | 23.96              | 24               | -0.04       |
|           |            |                 |            | 1       | 24        | 23.04                   | 23.99              | 24               | -0.01       |
|           |            |                 |            | 12      | 6         | 22.67                   | 23.62              | 24               | -0.38       |
|           |            |                 |            | 25      | 0         | 22.63                   | 23.58              | 24               | -0.42       |
|           | 27735      | 2312.5          | QPSK       | 1       | 0         | 23.00                   | 23.95              | 24               | -0.05       |
|           |            |                 |            | 1       | 24        | 23.00                   | 23.95              | 24               | -0.05       |
|           |            |                 |            | 12      | 6         | 22.68                   | 23.63              | 24               | -0.37       |
|           |            |                 |            | 25      | 0         | 22.71                   | 23.66              | 24               | -0.34       |
|           | 27685      | 2307.5          | 16QAM      | 1       | 0         | 22.94                   | 23.89              | 24               | -0.11       |
|           |            |                 |            | 1       | 24        | 22.86                   | 23.81              | 24               | -0.19       |
|           |            |                 |            | 12      | 6         | 21.67                   | 22.62              | 24               | -1.38       |
|           |            |                 |            | 25      | 0         | 21.67                   | 22.62              | 24               | -1.38       |
|           | 27710      | 2310            | 16QAM      | 1       | 0         | 22.91                   | 23.86              | 24               | -0.14       |
|           |            |                 |            | 1       | 24        | 22.87                   | 23.82              | 24               | -0.18       |
|           |            |                 |            | 12      | 6         | 21.63                   | 22.58              | 24               | -1.42       |
|           |            |                 |            | 25      | 0         | 21.59                   | 22.54              | 24               | -1.46       |
|           | 27735      | 2312.5          | 16QAM      | 1       | 0         | 22.90                   | 23.85              | 24               | -0.15       |
|           |            |                 |            | 1       | 24        | 22.93                   | 23.88              | 24               | -0.12       |
|           |            |                 |            | 12      | 6         | 21.78                   | 22.73              | 24               | -1.27       |
|           |            |                 |            | 25      | 0         | 21.71                   | 22.66              | 24               | -1.34       |

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LTE Band 30

Antenna gain (dBi) 0.95

LTE Band 30\_Uplink frequency band : 2305 to 2315 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 27710      | 2310            | QPSK       | 1       | 0         | 23.00                   | 23.95              | 24               | -0.05       |
|           |            |                 |            | 1       | 49        | 23.01                   | 23.96              | 24               | -0.04       |
|           |            |                 |            | 25      | 12        | 22.66                   | 23.61              | 24               | -0.39       |
|           |            |                 |            | 50      | 0         | 22.61                   | 23.56              | 24               | -0.44       |
|           | 27710      | 2310            | 16QAM      | 1       | 0         | 22.89                   | 23.84              | 24               | -0.16       |
|           |            |                 |            | 1       | 49        | 22.80                   | 23.75              | 24               | -0.25       |
|           |            |                 |            | 25      | 12        | 21.70                   | 22.65              | 24               | -1.35       |
|           |            |                 |            | 50      | 0         | 21.63                   | 22.58              | 24               | -1.42       |

#### EIRP Power Density

| LTE Band 30_Conducted Power Density (dBm/5MHz) |       |       |       |       |              |                             |       |       |       |
|------------------------------------------------|-------|-------|-------|-------|--------------|-----------------------------|-------|-------|-------|
| BW                                             | 5MHz  |       | 10MHz |       | BW           | 5MHz                        |       | 10MHz |       |
| Modulation                                     | QPSK  | 16QAM | QPSK  | 16QAM | Modulation   | QPSK                        | 16QAM | QPSK  | 16QAM |
| Lowest CH                                      | 22.95 | 22.84 |       |       | Lowest CH    | 23.90                       | 23.79 |       |       |
| Middle CH                                      | 22.92 | 22.89 | 22.93 | 22.86 | Middle CH    | 23.87                       | 23.84 | 23.88 | 23.81 |
| Highest CH                                     | 22.93 | 22.89 |       |       | Highest CH   | 23.88                       | 23.84 |       |       |
|                                                |       |       |       |       | Antenna Gain | 0.95                        |       |       |       |
|                                                |       |       |       |       | Limit        | 250mW / 5MHz = 24dBm / 5MHz |       |       |       |

\*Refer to next page for plots

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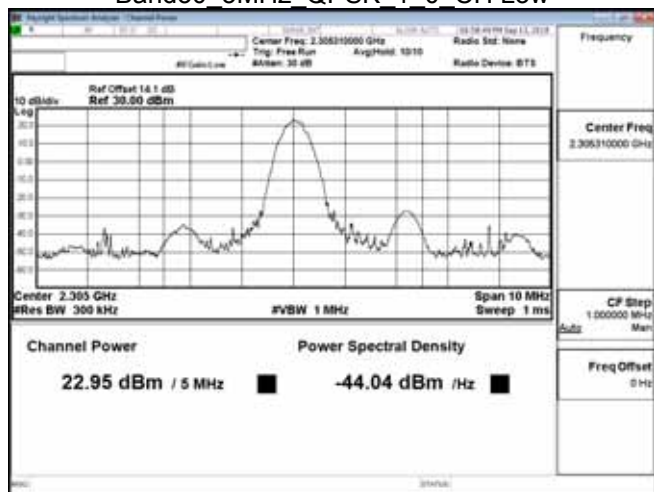
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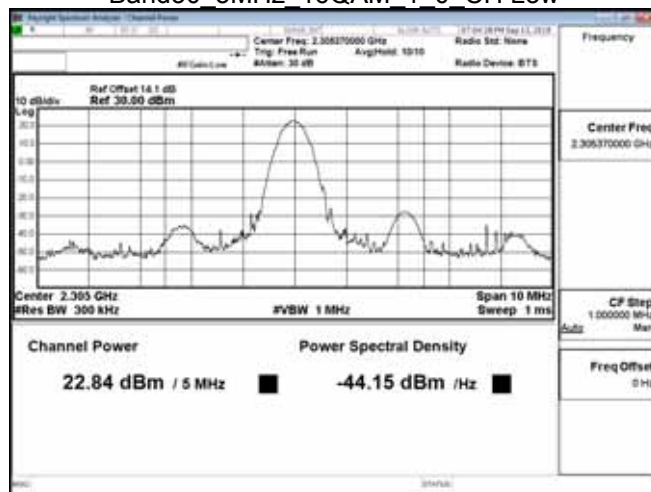
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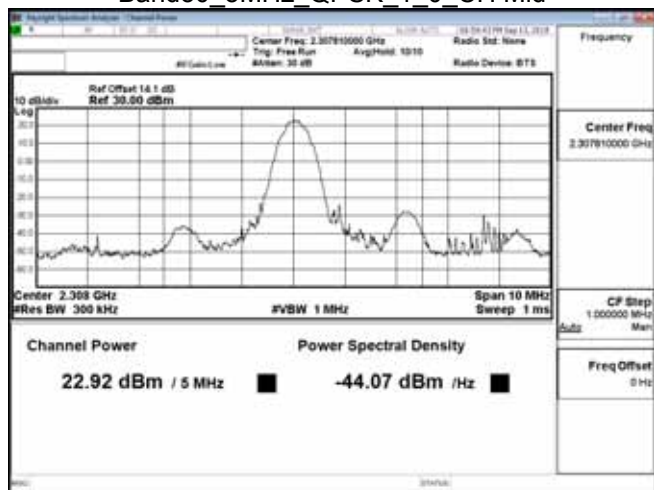
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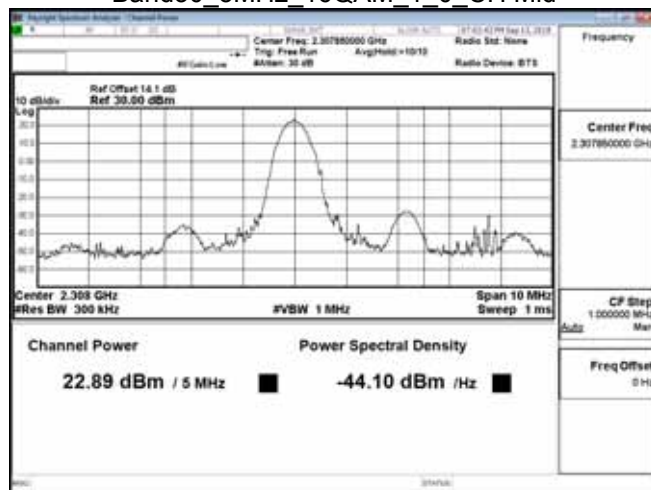
Band30\_5MHz\_16QAM\_1\_0\_CH Low



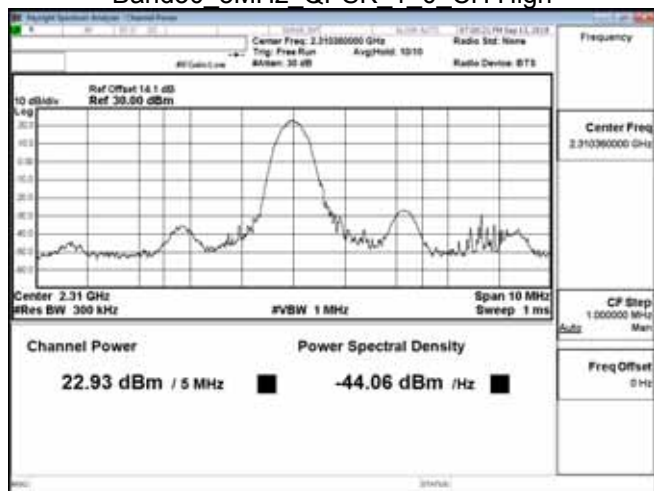
Band30\_5MHz\_QPSK\_1\_0\_CH Mid



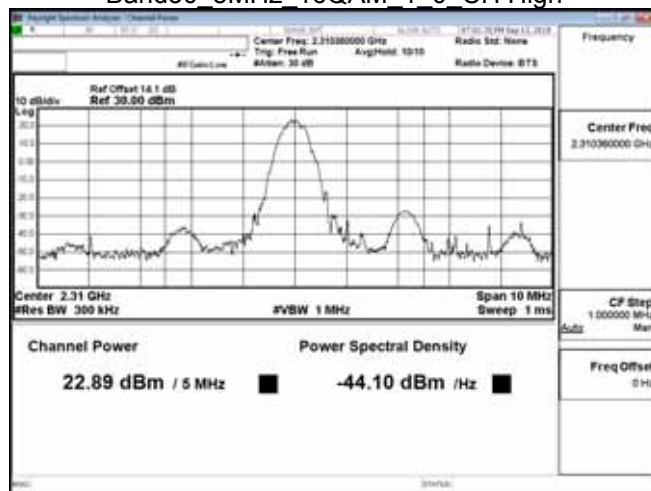
Band30\_5MHz\_16QAM\_1\_0\_CH Mid



Band30\_5MHz\_QPSK\_1\_0\_CH High



Band30\_5MHz\_16QAM\_1\_0\_CH High



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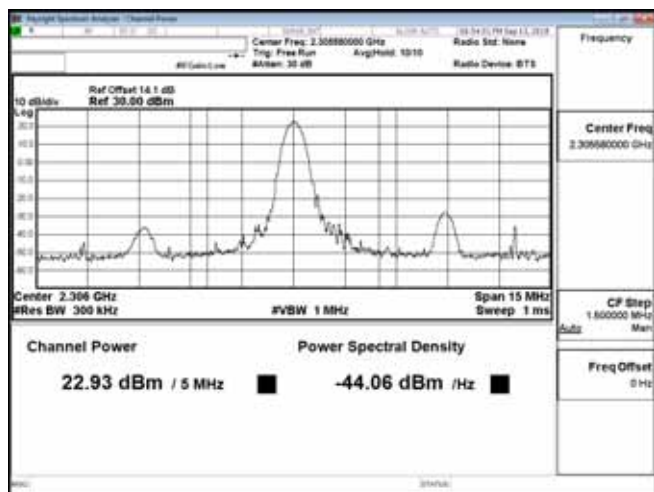
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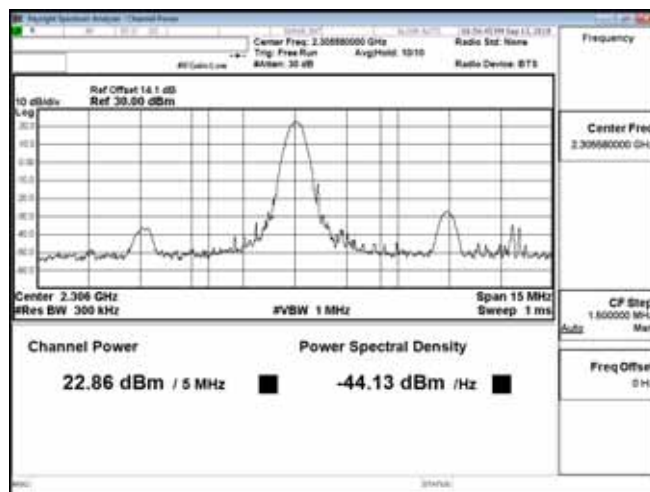
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Band30\_10MHz\_QPSK\_1\_0\_CH Mid



Band30\_10MHz\_16QAM\_1\_0\_CH Mid



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LTE Band 38

Duty Cycle Correction Factor

Antenna gain (dBi) 2.11

2.22

LTE Band 38\_Uplink frequency band : 2570 to 2620 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 37775      | 2572.5          | QPSK       | 1       | 0         | 23.63                   | 27.96              | 33               | -5.04       |
|           |            |                 |            | 1       | 24        | 23.59                   | 27.92              | 33               | -5.08       |
|           |            |                 |            | 12      | 6         | 22.67                   | 27.00              | 33               | -6          |
|           |            |                 |            | 25      | 0         | 22.65                   | 26.98              | 33               | -6.02       |
|           | 38000      | 2595            | QPSK       | 1       | 0         | 23.58                   | 27.91              | 33               | -5.09       |
|           |            |                 |            | 1       | 24        | 23.58                   | 27.91              | 33               | -5.09       |
|           |            |                 |            | 12      | 6         | 22.74                   | 27.07              | 33               | -5.93       |
|           |            |                 |            | 25      | 0         | 22.70                   | 27.03              | 33               | -5.97       |
|           | 38225      | 2617.5          | QPSK       | 1       | 0         | 23.60                   | 27.93              | 33               | -5.07       |
|           |            |                 |            | 1       | 24        | 23.61                   | 27.94              | 33               | -5.06       |
|           |            |                 |            | 12      | 6         | 22.68                   | 27.01              | 33               | -5.99       |
|           |            |                 |            | 25      | 0         | 22.64                   | 26.97              | 33               | -6.03       |
|           | 37775      | 2572.5          | 16QAM      | 1       | 0         | 22.80                   | 27.13              | 33               | -5.87       |
|           |            |                 |            | 1       | 24        | 22.77                   | 27.10              | 33               | -5.9        |
|           |            |                 |            | 12      | 6         | 21.72                   | 26.05              | 33               | -6.95       |
|           |            |                 |            | 25      | 0         | 21.69                   | 26.02              | 33               | -6.98       |
|           | 38000      | 2595            | 16QAM      | 1       | 0         | 22.83                   | 27.16              | 33               | -5.84       |
|           |            |                 |            | 1       | 24        | 22.79                   | 27.12              | 33               | -5.88       |
|           |            |                 |            | 12      | 6         | 21.82                   | 26.15              | 33               | -6.85       |
|           |            |                 |            | 25      | 0         | 21.74                   | 26.07              | 33               | -6.93       |
|           | 38225      | 2617.5          | 16QAM      | 1       | 0         | 22.80                   | 27.13              | 33               | -5.87       |
|           |            |                 |            | 1       | 24        | 22.83                   | 27.16              | 33               | -5.84       |
|           |            |                 |            | 12      | 6         | 21.72                   | 26.05              | 33               | -6.95       |
|           |            |                 |            | 25      | 0         | 21.66                   | 25.99              | 33               | -7.01       |

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LTE Band 38

Antenna gain (dBi)

2.11

LTE Band 38\_Uplink frequency band : 2570 to 2620 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 37800      | 2575            | QPSK       | 1       | 0         | 23.60                   | 27.93              | 33               | -5.07       |
|           |            |                 |            | 1       | 49        | 23.44                   | 27.77              | 33               | -5.23       |
|           |            |                 |            | 25      | 12        | 22.64                   | 26.97              | 33               | -6.03       |
|           |            |                 |            | 50      | 0         | 22.60                   | 26.93              | 33               | -6.07       |
|           | 38000      | 2595            | QPSK       | 1       | 0         | 23.62                   | 27.95              | 33               | -5.05       |
|           |            |                 |            | 1       | 49        | 23.59                   | 27.92              | 33               | -5.08       |
|           |            |                 |            | 25      | 12        | 22.70                   | 27.03              | 33               | -5.97       |
|           |            |                 |            | 50      | 0         | 22.67                   | 27.00              | 33               | -6          |
|           | 38200      | 2615            | QPSK       | 1       | 0         | 23.58                   | 27.91              | 33               | -5.09       |
|           |            |                 |            | 1       | 49        | 23.59                   | 27.92              | 33               | -5.08       |
|           |            |                 |            | 25      | 12        | 22.68                   | 27.01              | 33               | -5.99       |
|           |            |                 |            | 50      | 0         | 22.61                   | 26.94              | 33               | -6.06       |
|           | 37800      | 2575            | 16QAM      | 1       | 0         | 22.85                   | 27.18              | 33               | -5.82       |
|           |            |                 |            | 1       | 49        | 22.71                   | 27.04              | 33               | -5.96       |
|           |            |                 |            | 25      | 12        | 21.65                   | 25.98              | 33               | -7.02       |
|           |            |                 |            | 50      | 0         | 21.62                   | 25.95              | 33               | -7.05       |
|           | 38000      | 2595            | 16QAM      | 1       | 0         | 22.88                   | 27.21              | 33               | -5.79       |
|           |            |                 |            | 1       | 49        | 22.81                   | 27.14              | 33               | -5.86       |
|           |            |                 |            | 25      | 12        | 21.78                   | 26.11              | 33               | -6.89       |
|           |            |                 |            | 50      | 0         | 21.73                   | 26.06              | 33               | -6.94       |
|           | 38200      | 2615            | 16QAM      | 1       | 0         | 22.73                   | 27.06              | 33               | -5.94       |
|           |            |                 |            | 1       | 49        | 22.74                   | 27.07              | 33               | -5.93       |
|           |            |                 |            | 25      | 12        | 21.75                   | 26.08              | 33               | -6.92       |
|           |            |                 |            | 50      | 0         | 21.68                   | 26.01              | 33               | -6.99       |

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LTE Band 38

Antenna gain (dBi)

2.11

| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 37825      | 2577.5          | QPSK       | 1       | 0         | 23.68                   | 28.01              | 33               | -4.99       |
|                                                      |            |                 |            | 1       | 74        | 23.45                   | 27.78              | 33               | -5.22       |
|                                                      |            |                 |            | 36      | 19        | 22.66                   | 26.99              | 33               | -6.01       |
|                                                      |            |                 |            | 75      | 0         | 22.60                   | 26.93              | 33               | -6.07       |
|                                                      | 38000      | 2595            | QPSK       | 1       | 0         | 23.78                   | 28.11              | 33               | -4.89       |
|                                                      |            |                 |            | 1       | 74        | 23.67                   | 28.00              | 33               | -5          |
|                                                      |            |                 |            | 36      | 19        | 22.73                   | 27.06              | 33               | -5.94       |
|                                                      |            |                 |            | 75      | 0         | 22.73                   | 27.06              | 33               | -5.94       |
|                                                      | 38175      | 2612.5          | QPSK       | 1       | 0         | 23.67                   | 28.00              | 33               | -5          |
|                                                      |            |                 |            | 1       | 74        | 23.60                   | 27.93              | 33               | -5.07       |
|                                                      |            |                 |            | 36      | 19        | 22.65                   | 26.98              | 33               | -6.02       |
|                                                      |            |                 |            | 75      | 0         | 22.59                   | 26.92              | 33               | -6.08       |
|                                                      | 37825      | 2577.5          | 16QAM      | 1       | 0         | 22.81                   | 27.14              | 33               | -5.86       |
|                                                      |            |                 |            | 1       | 74        | 22.73                   | 27.06              | 33               | -5.94       |
|                                                      |            |                 |            | 36      | 19        | 21.63                   | 25.96              | 33               | -7.04       |
|                                                      |            |                 |            | 75      | 0         | 21.66                   | 25.99              | 33               | -7.01       |
|                                                      | 38000      | 2595            | 16QAM      | 1       | 0         | 22.98                   | 27.31              | 33               | -5.69       |
|                                                      |            |                 |            | 1       | 74        | 22.80                   | 27.13              | 33               | -5.87       |
|                                                      |            |                 |            | 36      | 19        | 21.72                   | 26.05              | 33               | -6.95       |
|                                                      |            |                 |            | 75      | 0         | 21.75                   | 26.08              | 33               | -6.92       |
|                                                      | 38175      | 2612.5          | 16QAM      | 1       | 0         | 22.78                   | 27.11              | 33               | -5.89       |
|                                                      |            |                 |            | 1       | 74        | 22.75                   | 27.08              | 33               | -5.92       |
|                                                      |            |                 |            | 36      | 19        | 21.63                   | 25.96              | 33               | -7.04       |
|                                                      |            |                 |            | 75      | 0         | 21.66                   | 25.99              | 33               | -7.01       |

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LTE Band 38

Antenna gain (dBi)

2.11

| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 37850      | 2580            | QPSK       | 1       | 0         | 23.75                   | 28.08              | 33               | -4.92       |
|                                                      |            |                 |            | 1       | 99        | 23.53                   | 27.86              | 33               | -5.14       |
|                                                      |            |                 |            | 50      | 25        | 22.64                   | 26.97              | 33               | -6.03       |
|                                                      |            |                 |            | 100     | 0         | 22.61                   | 26.94              | 33               | -6.06       |
|                                                      | 38000      | 2595            | QPSK       | 1       | 0         | 23.78                   | 28.11              | 33               | -4.89       |
|                                                      |            |                 |            | 1       | 99        | 23.63                   | 27.96              | 33               | -5.04       |
|                                                      |            |                 |            | 50      | 25        | 22.75                   | 27.08              | 33               | -5.92       |
|                                                      |            |                 |            | 100     | 0         | 22.74                   | 27.07              | 33               | -5.93       |
|                                                      | 38150      | 2610            | QPSK       | 1       | 0         | 23.68                   | 28.01              | 33               | -4.99       |
|                                                      |            |                 |            | 1       | 99        | 23.58                   | 27.91              | 33               | -5.09       |
|                                                      |            |                 |            | 50      | 25        | 22.60                   | 26.93              | 33               | -6.07       |
|                                                      |            |                 |            | 100     | 0         | 22.61                   | 26.94              | 33               | -6.06       |
|                                                      | 37850      | 2580            | 16QAM      | 1       | 0         | 22.89                   | 27.22              | 33               | -5.78       |
|                                                      |            |                 |            | 1       | 99        | 22.71                   | 27.04              | 33               | -5.96       |
|                                                      |            |                 |            | 50      | 25        | 21.70                   | 26.03              | 33               | -6.97       |
|                                                      |            |                 |            | 100     | 0         | 21.68                   | 26.01              | 33               | -6.99       |
|                                                      | 38000      | 2595            | 16QAM      | 1       | 0         | 22.95                   | 27.28              | 33               | -5.72       |
|                                                      |            |                 |            | 1       | 99        | 22.86                   | 27.19              | 33               | -5.81       |
|                                                      |            |                 |            | 50      | 25        | 21.76                   | 26.09              | 33               | -6.91       |
|                                                      |            |                 |            | 100     | 0         | 21.76                   | 26.09              | 33               | -6.91       |
|                                                      | 38150      | 2610            | 16QAM      | 1       | 0         | 22.83                   | 27.16              | 33               | -5.84       |
|                                                      |            |                 |            | 1       | 99        | 22.78                   | 27.11              | 33               | -5.89       |
|                                                      |            |                 |            | 50      | 25        | 21.69                   | 26.02              | 33               | -6.98       |
|                                                      |            |                 |            | 100     | 0         | 21.67                   | 26.00              | 33               | -7          |

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LTE Band 41

Duty Cycle Correction Factor

Antenna gain (dBi)

2.11

2.26

LTE Band 41\_Uplink frequency band : 2496 to 2690 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 39675      | 2498.5          | QPSK       | 1       | 0         | 23.63                   | 28.00              | 33               | -5          |
|           |            |                 |            | 1       | 24        | 23.60                   | 27.97              | 33               | -5.03       |
|           |            |                 |            | 12      | 6         | 22.72                   | 27.09              | 33               | -5.91       |
|           |            |                 |            | 25      | 0         | 22.63                   | 27.00              | 33               | -6          |
|           | 40620      | 2593            | QPSK       | 1       | 0         | 23.68                   | 28.05              | 33               | -4.95       |
|           |            |                 |            | 1       | 24        | 23.66                   | 28.03              | 33               | -4.97       |
|           |            |                 |            | 12      | 6         | 22.77                   | 27.14              | 33               | -5.86       |
|           |            |                 |            | 25      | 0         | 22.74                   | 27.11              | 33               | -5.89       |
|           | 41565      | 2687.5          | QPSK       | 1       | 0         | 23.63                   | 28.00              | 33               | -5          |
|           |            |                 |            | 1       | 24        | 23.57                   | 27.94              | 33               | -5.06       |
|           |            |                 |            | 12      | 6         | 22.72                   | 27.09              | 33               | -5.91       |
|           |            |                 |            | 25      | 0         | 22.66                   | 27.03              | 33               | -5.97       |
|           | 39675      | 2498.5          | 16QAM      | 1       | 0         | 22.89                   | 27.26              | 33               | -5.74       |
|           |            |                 |            | 1       | 24        | 22.84                   | 27.21              | 33               | -5.79       |
|           |            |                 |            | 12      | 6         | 21.73                   | 26.10              | 33               | -6.9        |
|           |            |                 |            | 25      | 0         | 21.70                   | 26.07              | 33               | -6.93       |
|           | 40620      | 2593            | 16QAM      | 1       | 0         | 22.87                   | 27.24              | 33               | -5.76       |
|           |            |                 |            | 1       | 24        | 22.79                   | 27.16              | 33               | -5.84       |
|           |            |                 |            | 12      | 6         | 21.78                   | 26.15              | 33               | -6.85       |
|           |            |                 |            | 25      | 0         | 21.75                   | 26.12              | 33               | -6.88       |
|           | 41565      | 2687.5          | 16QAM      | 1       | 0         | 22.81                   | 27.18              | 33               | -5.82       |
|           |            |                 |            | 1       | 24        | 22.79                   | 27.16              | 33               | -5.84       |
|           |            |                 |            | 12      | 6         | 21.72                   | 26.09              | 33               | -6.91       |
|           |            |                 |            | 25      | 0         | 21.67                   | 26.04              | 33               | -6.96       |

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41\_Uplink frequency band : 2496 to 2690 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 39700      | 2501            | QPSK       | 1       | 0         | 23.67                   | 28.04              | 33               | -4.96       |
|           |            |                 |            | 1       | 49        | 23.50                   | 27.87              | 33               | -5.13       |
|           |            |                 |            | 25      | 12        | 22.68                   | 27.05              | 33               | -5.95       |
|           |            |                 |            | 50      | 0         | 22.63                   | 27.00              | 33               | -6          |
|           | 40620      | 2593            | QPSK       | 1       | 0         | 23.65                   | 28.02              | 33               | -4.98       |
|           |            |                 |            | 1       | 49        | 23.56                   | 27.93              | 33               | -5.07       |
|           |            |                 |            | 25      | 12        | 22.67                   | 27.04              | 33               | -5.96       |
|           |            |                 |            | 50      | 0         | 22.67                   | 27.04              | 33               | -5.96       |
|           | 41540      | 2685            | QPSK       | 1       | 0         | 23.59                   | 27.96              | 33               | -5.04       |
|           |            |                 |            | 1       | 49        | 23.51                   | 27.88              | 33               | -5.12       |
|           |            |                 |            | 25      | 12        | 22.62                   | 26.99              | 33               | -6.01       |
|           |            |                 |            | 50      | 0         | 22.62                   | 26.99              | 33               | -6.01       |
|           | 39700      | 2501            | 16QAM      | 1       | 0         | 22.89                   | 27.26              | 33               | -5.74       |
|           |            |                 |            | 1       | 49        | 22.76                   | 27.13              | 33               | -5.87       |
|           |            |                 |            | 25      | 12        | 21.73                   | 26.10              | 33               | -6.9        |
|           |            |                 |            | 50      | 0         | 21.70                   | 26.07              | 33               | -6.93       |
|           | 40620      | 2593            | 16QAM      | 1       | 0         | 22.86                   | 27.23              | 33               | -5.77       |
|           |            |                 |            | 1       | 49        | 22.73                   | 27.10              | 33               | -5.9        |
|           |            |                 |            | 25      | 12        | 21.72                   | 26.09              | 33               | -6.91       |
|           |            |                 |            | 50      | 0         | 21.71                   | 26.08              | 33               | -6.92       |
|           | 41540      | 2685            | 16QAM      | 1       | 0         | 22.86                   | 27.23              | 33               | -5.77       |
|           |            |                 |            | 1       | 49        | 22.78                   | 27.15              | 33               | -5.85       |
|           |            |                 |            | 25      | 12        | 21.67                   | 26.04              | 33               | -6.96       |
|           |            |                 |            | 50      | 0         | 21.66                   | 26.03              | 33               | -6.97       |

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41\_Uplink frequency band : 2496 to 2690 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 39725      | 2503.5          | QPSK       | 1       | 0         | 23.74                   | 28.11              | 33               | -4.89       |
|           |            |                 |            | 1       | 74        | 23.51                   | 27.88              | 33               | -5.12       |
|           |            |                 |            | 36      | 19        | 22.64                   | 27.01              | 33               | -5.99       |
|           |            |                 |            | 75      | 0         | 22.58                   | 26.95              | 33               | -6.05       |
|           | 40620      | 2593            | QPSK       | 1       | 0         | 23.73                   | 28.10              | 33               | -4.9        |
|           |            |                 |            | 1       | 74        | 23.62                   | 27.99              | 33               | -5.01       |
|           |            |                 |            | 36      | 19        | 22.73                   | 27.10              | 33               | -5.9        |
|           |            |                 |            | 75      | 0         | 22.65                   | 27.02              | 33               | -5.98       |
|           | 41515      | 2682.5          | QPSK       | 1       | 0         | 23.71                   | 28.08              | 33               | -4.92       |
|           |            |                 |            | 1       | 74        | 23.57                   | 27.94              | 33               | -5.06       |
|           |            |                 |            | 36      | 19        | 22.63                   | 27.00              | 33               | -6          |
|           |            |                 |            | 75      | 0         | 22.62                   | 26.99              | 33               | -6.01       |
|           | 39725      | 2503.5          | 16QAM      | 1       | 0         | 22.90                   | 27.27              | 33               | -5.73       |
|           |            |                 |            | 1       | 74        | 22.68                   | 27.05              | 33               | -5.95       |
|           |            |                 |            | 36      | 19        | 21.62                   | 25.99              | 33               | -7.01       |
|           |            |                 |            | 75      | 0         | 21.64                   | 26.01              | 33               | -6.99       |
|           | 40620      | 2593            | 16QAM      | 1       | 0         | 22.88                   | 27.25              | 33               | -5.75       |
|           |            |                 |            | 1       | 74        | 22.80                   | 27.17              | 33               | -5.83       |
|           |            |                 |            | 36      | 19        | 21.69                   | 26.06              | 33               | -6.94       |
|           |            |                 |            | 75      | 0         | 21.74                   | 26.11              | 33               | -6.89       |
|           | 41515      | 2682.5          | 16QAM      | 1       | 0         | 22.84                   | 27.21              | 33               | -5.79       |
|           |            |                 |            | 1       | 74        | 22.71                   | 27.08              | 33               | -5.92       |
|           |            |                 |            | 36      | 19        | 21.64                   | 26.01              | 33               | -6.99       |
|           |            |                 |            | 75      | 0         | 21.66                   | 26.03              | 33               | -6.97       |

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41\_Uplink frequency band : 2496 to 2690 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 20        | 39750      | 2506            | QPSK       | 1       | 0         | 23.72                   | 28.09              | 33               | -4.91       |
|           |            |                 |            | 1       | 99        | 23.46                   | 27.83              | 33               | -5.17       |
|           |            |                 |            | 50      | 25        | 22.62                   | 26.99              | 33               | -6.01       |
|           |            |                 |            | 100     | 0         | 22.60                   | 26.97              | 33               | -6.03       |
|           | 40620      | 2593            | QPSK       | 1       | 0         | 23.79                   | 28.16              | 33               | -4.84       |
|           |            |                 |            | 1       | 99        | 23.64                   | 28.01              | 33               | -4.99       |
|           |            |                 |            | 50      | 25        | 22.74                   | 27.11              | 33               | -5.89       |
|           |            |                 |            | 100     | 0         | 22.74                   | 27.11              | 33               | -5.89       |
|           | 41490      | 2680            | QPSK       | 1       | 0         | 23.72                   | 28.09              | 33               | -4.91       |
|           |            |                 |            | 1       | 99        | 23.51                   | 27.88              | 33               | -5.12       |
|           |            |                 |            | 50      | 25        | 22.69                   | 27.06              | 33               | -5.94       |
|           |            |                 |            | 100     | 0         | 22.65                   | 27.02              | 33               | -5.98       |
|           | 39750      | 2506            | 16QAM      | 1       | 0         | 22.90                   | 27.27              | 33               | -5.73       |
|           |            |                 |            | 1       | 99        | 22.67                   | 27.04              | 33               | -5.96       |
|           |            |                 |            | 50      | 25        | 21.63                   | 26.00              | 33               | -7          |
|           |            |                 |            | 100     | 0         | 21.65                   | 26.02              | 33               | -6.98       |
|           | 40620      | 2593            | 16QAM      | 1       | 0         | 22.92                   | 27.29              | 33               | -5.71       |
|           |            |                 |            | 1       | 99        | 22.85                   | 27.22              | 33               | -5.78       |
|           |            |                 |            | 50      | 25        | 21.78                   | 26.15              | 33               | -6.85       |
|           |            |                 |            | 100     | 0         | 21.75                   | 26.12              | 33               | -6.88       |
|           | 41490      | 2680            | 16QAM      | 1       | 0         | 22.89                   | 27.26              | 33               | -5.74       |
|           |            |                 |            | 1       | 99        | 22.71                   | 27.08              | 33               | -5.92       |
|           |            |                 |            | 50      | 25        | 21.71                   | 26.08              | 33               | -6.92       |
|           |            |                 |            | 100     | 0         | 21.66                   | 26.03              | 33               | -6.97       |

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LTE Band 66

Antenna gain (dBi) 1.92

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                  | 131979     | 1710.7          | QPSK       | 1       | 0         | 24.08                   | 26.00              | 30               | -4          |
|                                                      |            |                 |            | 1       | 5         | 24.10                   | 26.02              | 30               | -3.98       |
|                                                      |            |                 |            | 3       | 2         | 24.10                   | 26.02              | 30               | -3.98       |
|                                                      |            |                 |            | 6       | 0         | 23.12                   | 25.04              | 30               | -4.96       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 24.03                   | 25.95              | 30               | -4.05       |
|                                                      |            |                 |            | 1       | 5         | 24.01                   | 25.93              | 30               | -4.07       |
|                                                      |            |                 |            | 3       | 2         | 24.09                   | 26.01              | 30               | -3.99       |
|                                                      |            |                 |            | 6       | 0         | 23.01                   | 24.93              | 30               | -5.07       |
|                                                      | 132665     | 1779.3          | QPSK       | 1       | 0         | 23.95                   | 25.87              | 30               | -4.13       |
|                                                      |            |                 |            | 1       | 5         | 23.91                   | 25.83              | 30               | -4.17       |
|                                                      |            |                 |            | 3       | 2         | 23.99                   | 25.91              | 30               | -4.09       |
|                                                      |            |                 |            | 6       | 0         | 22.91                   | 24.83              | 30               | -5.17       |
|                                                      | 131979     | 1710.7          | 16QAM      | 1       | 0         | 23.49                   | 25.41              | 30               | -4.59       |
|                                                      |            |                 |            | 1       | 5         | 23.48                   | 25.40              | 30               | -4.6        |
|                                                      |            |                 |            | 3       | 2         | 23.04                   | 24.96              | 30               | -5.04       |
|                                                      |            |                 |            | 6       | 0         | 22.08                   | 24.00              | 30               | -6          |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 23.22                   | 25.14              | 30               | -4.86       |
|                                                      |            |                 |            | 1       | 5         | 23.28                   | 25.20              | 30               | -4.8        |
|                                                      |            |                 |            | 3       | 2         | 23.13                   | 25.05              | 30               | -4.95       |
|                                                      |            |                 |            | 6       | 0         | 22.13                   | 24.05              | 30               | -5.95       |
|                                                      | 132665     | 1779.3          | 16QAM      | 1       | 0         | 23.29                   | 25.21              | 30               | -4.79       |
|                                                      |            |                 |            | 1       | 5         | 23.31                   | 25.23              | 30               | -4.77       |
|                                                      |            |                 |            | 3       | 2         | 22.97                   | 24.89              | 30               | -5.11       |
|                                                      |            |                 |            | 6       | 0         | 22.08                   | 24.00              | 30               | -6          |

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LTE Band 66

Antenna gain (dBi)

1.92

LTE Band 66\_Uplink frequency band : 1710 to 1780 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 3         | 131987     | 1711.5          | QPSK       | 1       | 0         | 24.17                   | 26.09              | 30               | -3.91       |
|           |            |                 |            | 1       | 14        | 24.07                   | 25.99              | 30               | -4.01       |
|           |            |                 |            | 8       | 4         | 23.17                   | 25.09              | 30               | -4.91       |
|           |            |                 |            | 15      | 0         | 23.15                   | 25.07              | 30               | -4.93       |
|           | 132322     | 1745            | QPSK       | 1       | 0         | 24.04                   | 25.96              | 30               | -4.04       |
|           |            |                 |            | 1       | 14        | 24.02                   | 25.94              | 30               | -4.06       |
|           |            |                 |            | 8       | 4         | 23.15                   | 25.07              | 30               | -4.93       |
|           |            |                 |            | 15      | 0         | 23.10                   | 25.02              | 30               | -4.98       |
|           | 132657     | 1778.5          | QPSK       | 1       | 0         | 24.07                   | 25.99              | 30               | -4.01       |
|           |            |                 |            | 1       | 14        | 23.95                   | 25.87              | 30               | -4.13       |
|           |            |                 |            | 8       | 4         | 23.06                   | 24.98              | 30               | -5.02       |
|           |            |                 |            | 15      | 0         | 23.04                   | 24.96              | 30               | -5.04       |
|           | 131987     | 1711.5          | 16QAM      | 1       | 0         | 23.29                   | 25.21              | 30               | -4.79       |
|           |            |                 |            | 1       | 14        | 23.26                   | 25.18              | 30               | -4.82       |
|           |            |                 |            | 8       | 4         | 22.29                   | 24.21              | 30               | -5.79       |
|           |            |                 |            | 15      | 0         | 22.23                   | 24.15              | 30               | -5.85       |
|           | 132322     | 1745            | 16QAM      | 1       | 0         | 23.17                   | 25.09              | 30               | -4.91       |
|           |            |                 |            | 1       | 14        | 23.12                   | 25.04              | 30               | -4.96       |
|           |            |                 |            | 8       | 4         | 22.20                   | 24.12              | 30               | -5.88       |
|           |            |                 |            | 15      | 0         | 22.06                   | 23.98              | 30               | -6.02       |
|           | 132657     | 1778.5          | 16QAM      | 1       | 0         | 23.17                   | 25.09              | 30               | -4.91       |
|           |            |                 |            | 1       | 14        | 23.19                   | 25.11              | 30               | -4.89       |
|           |            |                 |            | 8       | 4         | 22.12                   | 24.04              | 30               | -5.96       |
|           |            |                 |            | 15      | 0         | 22.02                   | 23.94              | 30               | -6.06       |

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LTE Band 66

Antenna gain (dBi)

1.92

LTE Band 66\_Uplink frequency band : 1710 to 1780 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5         | 131997     | 1712.5          | QPSK       | 1       | 0         | 24.16                   | 26.08              | 30               | -3.92       |
|           |            |                 |            | 1       | 24        | 24.11                   | 26.03              | 30               | -3.97       |
|           |            |                 |            | 12      | 6         | 23.17                   | 25.09              | 30               | -4.91       |
|           |            |                 |            | 25      | 0         | 23.19                   | 25.11              | 30               | -4.89       |
|           | 132322     | 1745            | QPSK       | 1       | 0         | 24.16                   | 26.08              | 30               | -3.92       |
|           |            |                 |            | 1       | 24        | 24.11                   | 26.03              | 30               | -3.97       |
|           |            |                 |            | 12      | 6         | 23.12                   | 25.04              | 30               | -4.96       |
|           |            |                 |            | 25      | 0         | 23.10                   | 25.02              | 30               | -4.98       |
|           | 132647     | 1777.5          | QPSK       | 1       | 0         | 24.08                   | 26.00              | 30               | -4          |
|           |            |                 |            | 1       | 24        | 23.95                   | 25.87              | 30               | -4.13       |
|           |            |                 |            | 12      | 6         | 23.06                   | 24.98              | 30               | -5.02       |
|           |            |                 |            | 25      | 0         | 23.04                   | 24.96              | 30               | -5.04       |
|           | 131997     | 1712.5          | 16QAM      | 1       | 0         | 23.37                   | 25.29              | 30               | -4.71       |
|           |            |                 |            | 1       | 24        | 23.44                   | 25.36              | 30               | -4.64       |
|           |            |                 |            | 12      | 6         | 22.20                   | 24.12              | 30               | -5.88       |
|           |            |                 |            | 25      | 0         | 22.17                   | 24.09              | 30               | -5.91       |
|           | 132322     | 1745            | 16QAM      | 1       | 0         | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 1       | 24        | 23.29                   | 25.21              | 30               | -4.79       |
|           |            |                 |            | 12      | 6         | 22.12                   | 24.04              | 30               | -5.96       |
|           |            |                 |            | 25      | 0         | 22.09                   | 24.01              | 30               | -5.99       |
|           | 132647     | 1777.5          | 16QAM      | 1       | 0         | 23.43                   | 25.35              | 30               | -4.65       |
|           |            |                 |            | 1       | 24        | 23.32                   | 25.24              | 30               | -4.76       |
|           |            |                 |            | 12      | 6         | 22.06                   | 23.98              | 30               | -6.02       |
|           |            |                 |            | 25      | 0         | 22.06                   | 23.98              | 30               | -6.02       |

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LTE Band 66

Antenna gain (dBi)

1.92

LTE Band 66\_Uplink frequency band : 1710 to 1780 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 10        | 132022     | 1715            | QPSK       | 1       | 0         | 24.26                   | 26.18              | 30               | -3.82       |
|           |            |                 |            | 1       | 49        | 24.07                   | 25.99              | 30               | -4.01       |
|           |            |                 |            | 25      | 12        | 23.21                   | 25.13              | 30               | -4.87       |
|           |            |                 |            | 50      | 0         | 23.12                   | 25.04              | 30               | -4.96       |
|           | 132322     | 1745            | QPSK       | 1       | 0         | 24.15                   | 26.07              | 30               | -3.93       |
|           |            |                 |            | 1       | 49        | 23.95                   | 25.87              | 30               | -4.13       |
|           |            |                 |            | 25      | 12        | 23.16                   | 25.08              | 30               | -4.92       |
|           |            |                 |            | 50      | 0         | 23.14                   | 25.06              | 30               | -4.94       |
|           | 132622     | 1775            | QPSK       | 1       | 0         | 24.21                   | 26.13              | 30               | -3.87       |
|           |            |                 |            | 1       | 49        | 23.93                   | 25.85              | 30               | -4.15       |
|           |            |                 |            | 25      | 12        | 23.09                   | 25.01              | 30               | -4.99       |
|           |            |                 |            | 50      | 0         | 23.06                   | 24.98              | 30               | -5.02       |
|           | 132022     | 1715            | 16QAM      | 1       | 0         | 23.36                   | 25.28              | 30               | -4.72       |
|           |            |                 |            | 1       | 49        | 23.35                   | 25.27              | 30               | -4.73       |
|           |            |                 |            | 25      | 12        | 22.29                   | 24.21              | 30               | -5.79       |
|           |            |                 |            | 50      | 0         | 22.18                   | 24.10              | 30               | -5.9        |
|           | 132322     | 1745            | 16QAM      | 1       | 0         | 23.33                   | 25.25              | 30               | -4.75       |
|           |            |                 |            | 1       | 49        | 23.11                   | 25.03              | 30               | -4.97       |
|           |            |                 |            | 25      | 12        | 22.14                   | 24.06              | 30               | -5.94       |
|           |            |                 |            | 50      | 0         | 22.13                   | 24.05              | 30               | -5.95       |
|           | 132622     | 1775            | 16QAM      | 1       | 0         | 23.30                   | 25.22              | 30               | -4.78       |
|           |            |                 |            | 1       | 49        | 23.15                   | 25.07              | 30               | -4.93       |
|           |            |                 |            | 25      | 12        | 22.14                   | 24.06              | 30               | -5.94       |
|           |            |                 |            | 50      | 0         | 22.08                   | 24.00              | 30               | -6          |

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LTE Band 66

Antenna gain (dBi) 1.92

LTE Band 66\_Uplink frequency band : 1710 to 1780 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 15        | 132047     | 1717.5          | QPSK       | 1       | 0         | 24.34                   | 26.26              | 30               | -3.74       |
|           |            |                 |            | 1       | 74        | 24.02                   | 25.94              | 30               | -4.06       |
|           |            |                 |            | 36      | 19        | 23.18                   | 25.10              | 30               | -4.9        |
|           |            |                 |            | 75      | 0         | 23.20                   | 25.12              | 30               | -4.88       |
|           | 132322     | 1745            | QPSK       | 1       | 0         | 24.33                   | 26.25              | 30               | -3.75       |
|           |            |                 |            | 1       | 74        | 24.09                   | 26.01              | 30               | -3.99       |
|           |            |                 |            | 36      | 19        | 23.18                   | 25.10              | 30               | -4.9        |
|           |            |                 |            | 75      | 0         | 23.16                   | 25.08              | 30               | -4.92       |
|           | 132597     | 1772.5          | QPSK       | 1       | 0         | 24.31                   | 26.23              | 30               | -3.77       |
|           |            |                 |            | 1       | 74        | 23.99                   | 25.91              | 30               | -4.09       |
|           |            |                 |            | 36      | 19        | 23.11                   | 25.03              | 30               | -4.97       |
|           |            |                 |            | 75      | 0         | 23.13                   | 25.05              | 30               | -4.95       |
|           | 132047     | 1717.5          | 16QAM      | 1       | 0         | 23.33                   | 25.25              | 30               | -4.75       |
|           |            |                 |            | 1       | 74        | 23.37                   | 25.29              | 30               | -4.71       |
|           |            |                 |            | 36      | 19        | 22.27                   | 24.19              | 30               | -5.81       |
|           |            |                 |            | 75      | 0         | 22.22                   | 24.14              | 30               | -5.86       |
|           | 132322     | 1745            | 16QAM      | 1       | 0         | 23.44                   | 25.36              | 30               | -4.64       |
|           |            |                 |            | 1       | 74        | 23.21                   | 25.13              | 30               | -4.87       |
|           |            |                 |            | 36      | 19        | 22.16                   | 24.08              | 30               | -5.92       |
|           |            |                 |            | 75      | 0         | 22.20                   | 24.12              | 30               | -5.88       |
|           | 132597     | 1772.5          | 16QAM      | 1       | 0         | 23.43                   | 25.35              | 30               | -4.65       |
|           |            |                 |            | 1       | 74        | 23.38                   | 25.30              | 30               | -4.7        |
|           |            |                 |            | 36      | 19        | 22.13                   | 24.05              | 30               | -5.95       |
|           |            |                 |            | 75      | 0         | 22.13                   | 24.05              | 30               | -5.95       |

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LTE Band 66

Antenna gain (dBi) 1.92

LTE Band 66\_Uplink frequency band : 1710 to 1780 MHz

| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|-----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 20        | 132072     | 1720            | QPSK       | 1       | 0         | 24.38                   | 26.30              | 30               | -3.7        |
|           |            |                 |            | 1       | 99        | 24.06                   | 25.98              | 30               | -4.02       |
|           |            |                 |            | 50      | 25        | 23.21                   | 25.13              | 30               | -4.87       |
|           |            |                 |            | 100     | 0         | 23.22                   | 25.14              | 30               | -4.86       |
|           | 132322     | 1745            | QPSK       | 1       | 0         | 24.26                   | 26.18              | 30               | -3.82       |
|           |            |                 |            | 1       | 99        | 23.90                   | 25.82              | 30               | -4.18       |
|           |            |                 |            | 50      | 25        | 23.14                   | 25.06              | 30               | -4.94       |
|           |            |                 |            | 100     | 0         | 23.15                   | 25.07              | 30               | -4.93       |
|           | 132572     | 1770            | QPSK       | 1       | 0         | 24.37                   | 26.29              | 30               | -3.71       |
|           |            |                 |            | 1       | 99        | 23.96                   | 25.88              | 30               | -4.12       |
|           |            |                 |            | 50      | 25        | 23.10                   | 25.02              | 30               | -4.98       |
|           |            |                 |            | 100     | 0         | 23.11                   | 25.03              | 30               | -4.97       |
|           | 132072     | 1720            | 16QAM      | 1       | 0         | 23.48                   | 25.40              | 30               | -4.6        |
|           |            |                 |            | 1       | 99        | 23.18                   | 25.10              | 30               | -4.9        |
|           |            |                 |            | 50      | 25        | 22.21                   | 24.13              | 30               | -5.87       |
|           |            |                 |            | 100     | 0         | 22.21                   | 24.13              | 30               | -5.87       |
|           | 132322     | 1745            | 16QAM      | 1       | 0         | 23.42                   | 25.34              | 30               | -4.66       |
|           |            |                 |            | 1       | 99        | 23.06                   | 24.98              | 30               | -5.02       |
|           |            |                 |            | 50      | 25        | 22.14                   | 24.06              | 30               | -5.94       |
|           |            |                 |            | 100     | 0         | 22.17                   | 24.09              | 30               | -5.91       |
|           | 132572     | 1770            | 16QAM      | 1       | 0         | 23.46                   | 25.38              | 30               | -4.62       |
|           |            |                 |            | 1       | 99        | 23.41                   | 25.33              | 30               | -4.67       |
|           |            |                 |            | 50      | 25        | 22.16                   | 24.08              | 30               | -5.92       |
|           |            |                 |            | 100     | 0         | 22.13                   | 24.05              | 30               | -5.95       |

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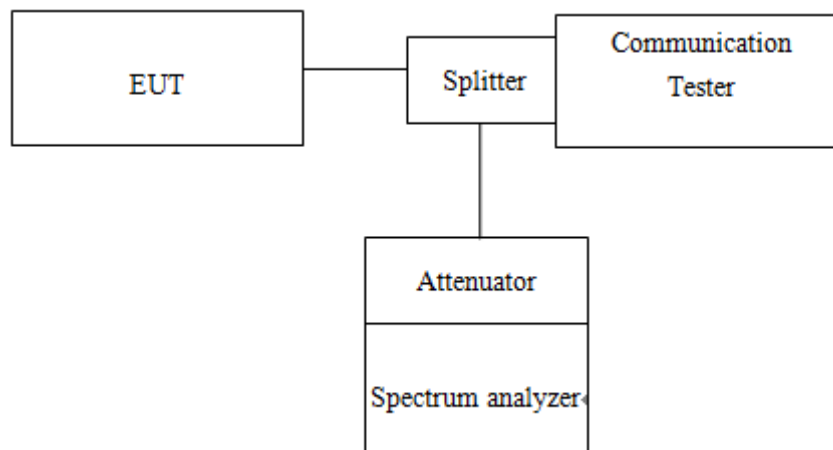
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2. Test Set-up



### 8.3. Measurement Procedure

#### **99% & 26dB Bandwidth with detector peak**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

#### **99% Bandwidth with detector sample**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

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#### 8.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |           |              |               |            |            |
|---------------------------------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR       | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                       | Agilent   | N9010A       | MY51440113    | 2018/06/20 | 2019/06/19 |
| Radio Communication Analyser                            | Anritsu   | MT8820C      | 6201107337    | 2018/06/15 | 2019/06/14 |
| DC Power Supply                                         | Agilent   | E3640A       | MY53130054    | 2017/09/04 | 2018/09/03 |
| Attenuator                                              | Marvelous | MVE2213-10   | RF30          | 2017/12/26 | 2018/12/25 |
| Splitter                                                | Woken     | DOM35LW1 A2  | RF36          | 2017/12/26 | 2018/12/25 |

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## 8.5. Measurement Result

| Freq.<br>(MHz) | CH   | 99% BW (MHz) |             |             | 26 dB BW (MHz) |             |             |
|----------------|------|--------------|-------------|-------------|----------------|-------------|-------------|
|                |      | WCDMA<br>II  | HSDPA<br>II | HSUPA<br>II | WCDMA<br>II    | HSDPA<br>II | HSUPA<br>II |
| 1852.40        | 9262 | 4.1144       | 4.1153      | 4.1278      | 4.684          | 4.672       | 4.677       |
| 1880.00        | 9400 | 4.1176       | 4.1249      | 4.1222      | 4.690          | 4.688       | 4.655       |
| 1907.60        | 9538 | 4.1183       | 4.1057      | 4.1163      | 4.695          | 4.659       | 4.658       |

| Freq.<br>(MHz) | CH   | 99% BW (MHz) |            |            | 26 dB BW (MHz) |            |            |
|----------------|------|--------------|------------|------------|----------------|------------|------------|
|                |      | WCDMA<br>V   | HSDPA<br>V | HSUPA<br>V | WCDMA<br>V     | HSDPA<br>V | HSUPA<br>V |
| 826.40         | 4132 | 4.1214       | 4.1342     | 4.1445     | 4.680          | 4.706      | 4.723      |
| 836.60         | 4183 | 4.1242       | 4.1243     | 4.1326     | 4.693          | 4.711      | 4.724      |
| 846.60         | 4233 | 4.1085       | 4.1154     | 4.1146     | 4.703          | 4.665      | 4.657      |

| LTE BAND 2 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1850.7                               | 18607 | 1.0952       | 1.0978 | 1.240          | 1.243 |
| 1880.0                               | 18900 | 1.0953       | 1.0984 | 1.241          | 1.238 |
| 1909.3                               | 19193 | 1.0947       | 1.0979 | 1.234          | 1.248 |

| LTE BAND 2 Channel bandwidth: 3MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1851.5                             | 18615 | 2.6989       | 2.7016 | 2.998          | 3.016 |
| 1880.0                             | 18900 | 2.6988       | 2.7028 | 3.007          | 3.004 |
| 1908.5                             | 19185 | 2.6984       | 2.7045 | 2.996          | 3.003 |

| LTE BAND 2 Channel bandwidth: 5MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1852.5                             | 18625 | 4.4963       | 4.5017 | 4.978          | 4.993 |
| 1880.0                             | 18900 | 4.4964       | 4.5075 | 4.984          | 4.984 |
| 1907.5                             | 19175 | 4.5031       | 4.4990 | 4.976          | 4.974 |

| LTE BAND 2 Channel bandwidth: 10MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1855.0                              | 18650 | 9.0024       | 8.9601 | 9.836          | 9.712 |
| 1880.0                              | 18900 | 9.0160       | 8.9610 | 9.797          | 9.747 |
| 1905.0                              | 19150 | 9.0039       | 8.9582 | 9.790          | 9.722 |

| LTE BAND 2 Channel bandwidth: 15MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1857.5                              | 18675 | 13.466       | 13.453 | 14.63          | 14.65 |
| 1880.0                              | 18900 | 13.499       | 13.464 | 14.63          | 14.75 |
| 1902.5                              | 19125 | 13.465       | 13.461 | 14.75          | 14.65 |

| LTE BAND 2 Channel bandwidth: 20MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1860.0                              | 18700 | 17.913       | 17.933 | 19.44          | 19.40 |
| 1880.0                              | 18900 | 17.951       | 17.956 | 19.49          | 19.35 |
| 1900.0                              | 19100 | 17.933       | 17.938 | 19.37          | 19.39 |

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| LTE BAND 4 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1710.7                               | 19957 | 1.0916       | 1.0941 | 1.237          | 1.238 |
| 1732.5                               | 20175 | 1.0940       | 1.0945 | 1.233          | 1.239 |
| 1754.3                               | 20393 | 1.0925       | 1.0972 | 1.242          | 1.246 |

| LTE BAND 4 Channel bandwidth: 3MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1711.5                             | 19965 | 2.6987       | 2.7029 | 2.996          | 3.004 |
| 1732.5                             | 20175 | 2.7011       | 2.7019 | 2.986          | 2.999 |
| 1753.5                             | 20385 | 2.6996       | 2.7019 | 3.002          | 2.994 |

| LTE BAND 4 Channel bandwidth: 5MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1712.5                             | 19957 | 4.5087       | 4.5050 | 4.971          | 4.938 |
| 1732.5                             | 20175 | 4.5145       | 4.5074 | 4.961          | 4.961 |
| 1752.5                             | 20375 | 4.5164       | 4.5036 | 4.953          | 4.975 |

| LTE BAND 4 Channel bandwidth: 10MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1715.0                              | 20000 | 9.0095       | 8.9718 | 9.840          | 9.747 |
| 1732.5                              | 20175 | 9.0000       | 8.9695 | 9.817          | 9.805 |
| 1750.0                              | 20350 | 8.9974       | 8.9746 | 9.811          | 9.734 |

| LTE BAND 4 Channel bandwidth: 15MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1717.5                              | 20025 | 13.478       | 13.491 | 14.64          | 14.67 |
| 1732.5                              | 20175 | 13.499       | 13.458 | 14.77          | 14.74 |
| 1747.5                              | 20325 | 13.492       | 13.482 | 14.70          | 14.65 |

| LTE BAND 4 Channel bandwidth: 20MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1720.0                              | 20050 | 17.971       | 18.008 | 19.51          | 19.50 |
| 1732.5                              | 20175 | 17.931       | 17.941 | 19.47          | 19.59 |
| 1745.0                              | 20300 | 17.951       | 17.995 | 19.54          | 19.61 |

| LTE BAND 5 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 824.7                                | 20407 | 1.0955       | 1.0981 | 1.234          | 1.238 |
| 836.5                                | 20525 | 1.0934       | 1.0964 | 1.235          | 1.240 |
| 848.3                                | 20643 | 1.0936       | 1.0968 | 1.237          | 1.238 |

| LTE BAND 5 Channel bandwidth: 3MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 825.5                              | 20415 | 2.7005       | 2.6980 | 2.989          | 3.006 |
| 836.5                              | 20525 | 2.7007       | 2.7024 | 3.005          | 3.021 |
| 847.5                              | 20635 | 2.7009       | 2.6990 | 2.999          | 2.998 |

| LTE BAND 5 Channel bandwidth: 5MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 826.5                              | 20425 | 4.5011       | 4.5000 | 5.005          | 4.962 |
| 836.5                              | 20525 | 4.5016       | 4.4998 | 4.999          | 4.970 |
| 846.5                              | 20625 | 4.4954       | 4.5002 | 4.967          | 4.984 |

| LTE BAND 5 Channel bandwidth: 10MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 829.0                               | 20450 | 9.0111       | 8.9817 | 9.827          | 9.782 |
| 836.5                               | 20525 | 9.0064       | 8.9656 | 9.849          | 9.783 |
| 844.0                               | 20600 | 8.9844       | 8.9469 | 9.815          | 9.724 |

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| LTE BAND 7 Channel bandwidth: 5MHz |       |              |        |                |       |
|------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2502.5                             | 20775 | 4.5048       | 4.5082 | 4.978          | 4.979 |
| 2535.0                             | 21100 | 4.5017       | 4.5058 | 4.998          | 4.977 |
| 2567.5                             | 21425 | 4.5027       | 4.5043 | 4.986          | 4.993 |

| LTE BAND 7 Channel bandwidth: 10MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2505.0                              | 20800 | 8.9935       | 8.9622 | 9.865          | 9.731 |
| 2535.0                              | 21100 | 8.9836       | 8.9606 | 9.762          | 9.795 |
| 2565.0                              | 21400 | 8.9744       | 8.9418 | 9.820          | 9.765 |

| LTE BAND 7 Channel bandwidth: 15MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2507.5                              | 20825 | 13.478       | 13.466 | 14.64          | 14.68 |
| 2535.0                              | 21100 | 13.489       | 13.463 | 14.71          | 14.73 |
| 2562.5                              | 21375 | 13.478       | 13.428 | 14.62          | 14.60 |

| LTE BAND 7 Channel bandwidth: 20MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2510.0                              | 20850 | 17.939       | 17.930 | 19.45          | 19.30 |
| 2535.0                              | 21100 | 17.954       | 17.978 | 19.54          | 19.44 |
| 2560.0                              | 21350 | 17.880       | 17.905 | 19.35          | 19.35 |

| LTE BAND 12 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|---------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                       |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 699.7                                 | 23017 | 1.0939       | 1.0946 | 1.218          | 1.240 |
| 707.5                                 | 23095 | 1.0950       | 1.0974 | 1.239          | 1.233 |
| 715.3                                 | 23173 | 1.0958       | 1.0943 | 1.241          | 1.232 |

| LTE BAND 12 Channel bandwidth: 3MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 700.5                               | 23025 | 2.7027       | 2.7053 | 3.015          | 3.009 |
| 707.5                               | 23095 | 2.6994       | 2.6983 | 2.996          | 3.001 |
| 714.5                               | 23165 | 2.7019       | 2.6996 | 3.004          | 3.012 |

| LTE BAND 12 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 701.5                               | 23035 | 4.5114       | 4.5094 | 4.988          | 4.993 |
| 707.5                               | 23095 | 4.5004       | 4.5006 | 4.986          | 4.961 |
| 713.5                               | 23155 | 4.5085       | 4.5088 | 4.984          | 4.955 |

| LTE BAND 12 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 704.0                                | 23060 | 9.0290       | 8.9641 | 9.790          | 9.747 |
| 707.5                                | 23095 | 8.9869       | 8.9258 | 9.777          | 9.714 |
| 711.0                                | 23130 | 8.9711       | 8.9480 | 9.827          | 9.785 |

| LTE BAND 13 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 779.5                               | 23205 | 4.4974       | 4.5015 | 4.956          | 4.967 |
| 782.0                               | 23230 | 4.5146       | 4.5112 | 5.019          | 4.952 |
| 784.5                               | 23255 | 4.4976       | 4.4954 | 4.969          | 4.930 |

| LTE BAND 13 Channel bandwidth: 10MHz |       |              |       |                |       |
|--------------------------------------|-------|--------------|-------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |       | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM | QPSK           | 16QAM |
| 782.0                                | 23230 | 8.995        | 8.948 | 9.791          | 9.721 |

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| LTE BAND 25 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|---------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                       |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1850.7                                | 26047 | 1.0950       | 1.0954 | 1.235          | 1.245 |
| 1882.5                                | 26365 | 1.0931       | 1.0970 | 1.240          | 1.238 |
| 1914.3                                | 26683 | 1.0931       | 1.0970 | 1.234          | 1.238 |

| LTE BAND 25 Channel bandwidth: 3MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1851.5                              | 26055 | 2.6981       | 2.6978 | 3.000          | 3.008 |
| 1882.5                              | 26365 | 2.6963       | 2.7000 | 2.976          | 3.010 |
| 1913.5                              | 26675 | 2.7001       | 2.7046 | 2.990          | 2.997 |

| LTE BAND 25 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1852.5                              | 26065 | 4.4941       | 4.5069 | 4.971          | 4.971 |
| 1882.5                              | 26365 | 4.4957       | 4.5016 | 4.991          | 4.962 |
| 1912.5                              | 26665 | 4.5019       | 4.4988 | 4.983          | 4.972 |

| LTE BAND 25 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1855.0                               | 26090 | 9.0017       | 8.9721 | 9.850          | 9.815 |
| 1882.5                               | 26365 | 8.9873       | 8.9664 | 9.813          | 9.763 |
| 1910.0                               | 26640 | 9.0073       | 8.9566 | 9.804          | 9.756 |

| LTE BAND 25 Channel bandwidth: 15MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1857.5                               | 26115 | 13.453       | 13.452 | 14.67          | 14.60 |
| 1882.5                               | 26365 | 13.459       | 13.472 | 14.64          | 14.74 |
| 1907.5                               | 26615 | 13.475       | 13.454 | 14.66          | 14.65 |

| LTE BAND 25 Channel bandwidth: 20MHz |       |              |         |                |       |
|--------------------------------------|-------|--------------|---------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM   | QPSK           | 16QAM |
| 1860.0                               | 26140 | 17.8980      | 17.9450 | 19.44          | 19.50 |
| 1882.5                               | 26365 | 17.9170      | 17.9610 | 19.50          | 19.50 |
| 1905.0                               | 26590 | 17.9090      | 17.9210 | 19.44          | 19.39 |

| LTE BAND 26 Channel bandwidth: 1.4MHz |       |              |        |                |       |
|---------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                       |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 824.7                                 | 26797 | 1.0945       | 1.0960 | 1.234          | 1.239 |
| 836.5                                 | 26915 | 1.0945       | 1.0959 | 1.238          | 1.241 |
| 848.3                                 | 27033 | 1.0946       | 1.0976 | 1.234          | 1.241 |

| LTE BAND 26 Channel bandwidth: 3MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 825.5                               | 26805 | 2.6937       | 2.7045 | 2.981          | 3.006 |
| 836.5                               | 26915 | 2.7006       | 2.7025 | 2.999          | 3.016 |
| 847.5                               | 27025 | 2.6980       | 2.7045 | 3.010          | 3.001 |

| LTE BAND 26 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 826.5                               | 26815 | 4.5005       | 4.5000 | 4.960          | 4.973 |
| 836.5                               | 26915 | 4.5007       | 4.5044 | 4.985          | 4.963 |
| 846.5                               | 27015 | 4.4957       | 4.4978 | 4.994          | 4.977 |

| LTE BAND 26 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 829.0                                | 26840 | 8.9911       | 8.9715 | 9.807          | 9.771 |
| 836.5                                | 26915 | 9.0024       | 8.9573 | 9.778          | 9.788 |
| 844.0                                | 26990 | 8.9765       | 8.9453 | 9.795          | 9.722 |

| LTE BAND 26 Channel bandwidth: 15MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 831.5                                | 26865 | 13.459       | 13.436 | 14.67          | 14.63 |
| 836.5                                | 26915 | 13.493       | 13.456 | 14.75          | 14.64 |
| 841.5                                | 26965 | 13.458       | 13.456 | 14.69          | 14.70 |

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| LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz |       |              |        |                |       |
|----------------------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                                     | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                                    |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 814.7                                              | 26697 | 1.0945       | 1.0960 | 1.235          | 1.237 |
| 819.0                                              | 26740 | 1.0942       | 1.0958 | 1.236          | 1.238 |
| 823.3                                              | 26783 | 1.0953       | 1.0938 | 1.238          | 1.237 |

| LTE BAND 26 for part 90S Channel bandwidth: 3MHz |       |              |        |                |       |
|--------------------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                                  |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 815.5                                            | 26705 | 2.6997       | 2.7018 | 2.986          | 3.005 |
| 819.0                                            | 26740 | 2.6991       | 2.7053 | 3.004          | 3.002 |
| 822.5                                            | 26775 | 2.7032       | 2.7041 | 2.985          | 3.009 |

| LTE BAND 26 for part 90S Channel bandwidth: 5MHz |       |              |        |                |       |
|--------------------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                                  |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 816.5                                            | 26715 | 4.4926       | 4.4977 | 4.956          | 4.971 |
| 819.0                                            | 26740 | 4.4917       | 4.4993 | 4.978          | 4.959 |
| 821.5                                            | 26765 | 4.5091       | 4.5063 | 5.003          | 4.977 |

| LTE BAND 26 for part 90S Channel bandwidth: 10MHz |       |              |        |                |       |
|---------------------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                                    | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                                   |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 819.0                                             | 26740 | 8.9892       | 8.9375 | 9.805          | 9.743 |

| LTE BAND 30 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2307.5                              | 27685 | 4.5014       | 4.4983 | 4.995          | 4.947 |
| 2310.0                              | 27710 | 4.4991       | 4.4992 | 4.985          | 4.963 |
| 2312.5                              | 27735 | 4.4907       | 4.5022 | 4.987          | 4.983 |

| LTE BAND 30 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | 16QAM          | QPSK  |
| 2310.0                               | 27710 | 9.0141       | 8.9575 | 9.838          | 9.796 |

| LTE BAND 38 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2572.5                              | 37775 | 4.5053       | 4.5050 | 4.997          | 4.966 |
| 2595.0                              | 38000 | 4.4980       | 4.5064 | 4.979          | 4.975 |
| 2617.5                              | 38225 | 4.5013       | 4.5006 | 4.927          | 4.982 |

| LTE BAND 38 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2575.0                               | 37800 | 8.9704       | 8.9631 | 9.752          | 9.706 |
| 2595.0                               | 38000 | 8.9791       | 8.9522 | 9.726          | 9.728 |
| 2615.0                               | 38200 | 8.9769       | 8.9563 | 9.764          | 9.760 |

| LTE BAND 38 Channel bandwidth: 15MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2577.5                               | 37825 | 13.441       | 13.454 | 14.62          | 14.75 |
| 2595.0                               | 38000 | 13.467       | 13.475 | 14.54          | 14.76 |
| 2612.5                               | 38175 | 13.448       | 13.455 | 14.61          | 14.69 |

| LTE BAND 38 Channel bandwidth: 20MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2580.0                               | 37850 | 17.921       | 17.930 | 19.42          | 19.52 |
| 2595.0                               | 38000 | 17.930       | 17.883 | 19.37          | 19.42 |
| 2610.0                               | 38150 | 17.919       | 17.898 | 19.38          | 19.42 |

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| LTE BAND 41 Channel bandwidth: 5MHz |       |              |        |                |       |
|-------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2498.5                              | 39675 | 4.4984       | 4.4970 | 4.948          | 4.951 |
| 2593.0                              | 40620 | 4.5045       | 4.5045 | 4.974          | 4.980 |
| 2687.5                              | 41565 | 4.4976       | 4.4997 | 4.968          | 4.918 |

| LTE BAND 41 Channel bandwidth: 10MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2501.0                               | 39700 | 8.9579       | 8.9533 | 9.725          | 9.763 |
| 2593.0                               | 40620 | 8.9792       | 8.9530 | 9.784          | 9.673 |
| 2685.0                               | 41540 | 8.9751       | 8.9703 | 9.743          | 9.744 |

| LTE BAND 41 Channel bandwidth: 15MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2503.5                               | 39725 | 13.479       | 13.467 | 14.52          | 14.71 |
| 2593.0                               | 40620 | 13.457       | 13.466 | 14.54          | 14.71 |
| 2682.5                               | 41515 | 13.443       | 13.469 | 14.56          | 14.62 |

| LTE BAND 41 Channel bandwidth: 20MHz |       |              |        |                |       |
|--------------------------------------|-------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |       | QPSK         | 16QAM  | QPSK           | 16QAM |
| 2506.0                               | 39750 | 17.906       | 17.912 | 19.32          | 19.34 |
| 2593.0                               | 40620 | 17.918       | 17.893 | 19.36          | 19.36 |
| 2680.0                               | 41490 | 17.919       | 17.944 | 19.30          | 19.40 |

| LTE BAND 66 Channel bandwidth: 1.4MHz |        |              |        |                |       |
|---------------------------------------|--------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                        | CH     | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                       |        | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1710.7                                | 131979 | 1.0958       | 1.0965 | 1.237          | 1.240 |
| 1745.0                                | 132322 | 1.0920       | 1.0975 | 1.235          | 1.234 |
| 1779.3                                | 132665 | 1.0946       | 1.0942 | 1.236          | 1.240 |

| LTE BAND 66 Channel bandwidth: 3MHz |        |              |        |                |       |
|-------------------------------------|--------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |        | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1711.5                              | 131987 | 2.6993       | 2.7054 | 2.999          | 3.010 |
| 1745.0                              | 132322 | 2.7018       | 2.7011 | 2.987          | 3.006 |
| 1778.5                              | 132657 | 2.6991       | 2.7021 | 2.975          | 3.008 |

| LTE BAND 66 Channel bandwidth: 5MHz |        |              |        |                |       |
|-------------------------------------|--------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                     |        | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1712.5                              | 131997 | 4.5018       | 4.5003 | 4.977          | 4.970 |
| 1745.0                              | 132322 | 4.4991       | 4.5024 | 4.963          | 4.967 |
| 1777.5                              | 132647 | 4.5055       | 4.5050 | 4.976          | 5.005 |

| LTE BAND 66 Channel bandwidth: 10MHz |        |              |        |                |       |
|--------------------------------------|--------|--------------|--------|----------------|-------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        | 26 dB BW (MHz) |       |
|                                      |        | QPSK         | 16QAM  | QPSK           | 16QAM |
| 1715.0                               | 132022 | 8.9938       | 8.9616 | 9.843          | 9.760 |
| 1745.0                               | 132322 | 9.0091       | 8.9613 | 9.818          | 9.777 |
| 1775.0                               | 132622 | 9.0216       | 8.9701 | 9.786          | 9.749 |

| LTE BAND 66 Channel bandwidth: 15MHz |        |              |         |                |       |
|--------------------------------------|--------|--------------|---------|----------------|-------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |         | 26 dB BW (MHz) |       |
|                                      |        | QPSK         | 16QAM   | QPSK           | 16QAM |
| 1717.5                               | 132047 | 13.4740      | 13.4650 | 14.67          | 14.65 |
| 1745.0                               | 132322 | 13.4490      | 13.4680 | 14.69          | 14.71 |
| 1772.5                               | 132597 | 13.4890      | 13.4750 | 14.69          | 14.76 |

| LTE BAND 66 Channel bandwidth: 20MHz |        |              |         |                |       |
|--------------------------------------|--------|--------------|---------|----------------|-------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |         | 26 dB BW (MHz) |       |
|                                      |        | QPSK         | 16QAM   | QPSK           | 16QAM |
| 1720.0                               | 132072 | 17.9810      | 18.0000 | 19.49          | 19.56 |
| 1745.0                               | 132322 | 17.9440      | 17.9250 | 19.50          | 19.42 |
| 1770.0                               | 132572 | 17.9560      | 17.9560 | 19.48          | 19.60 |

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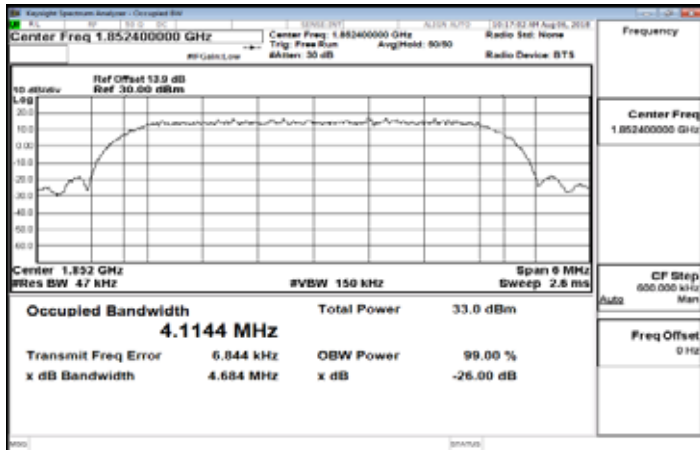
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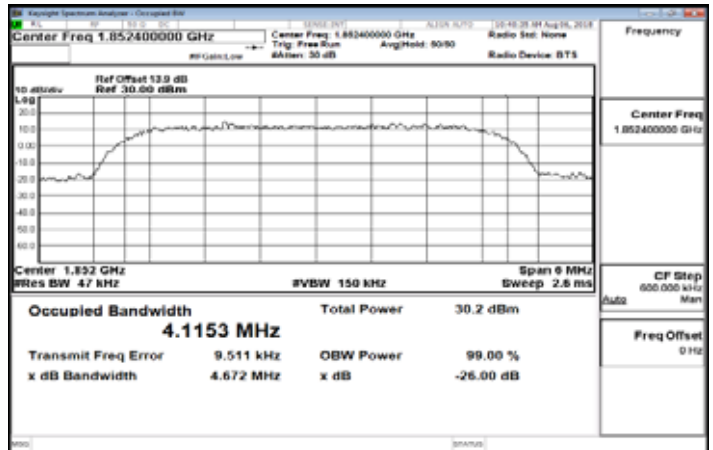
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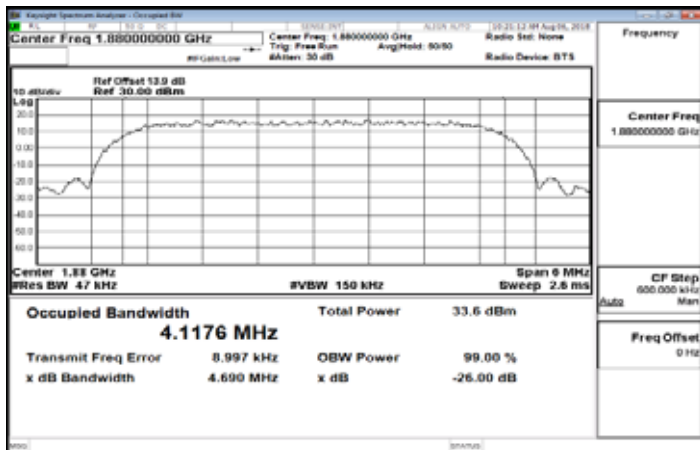
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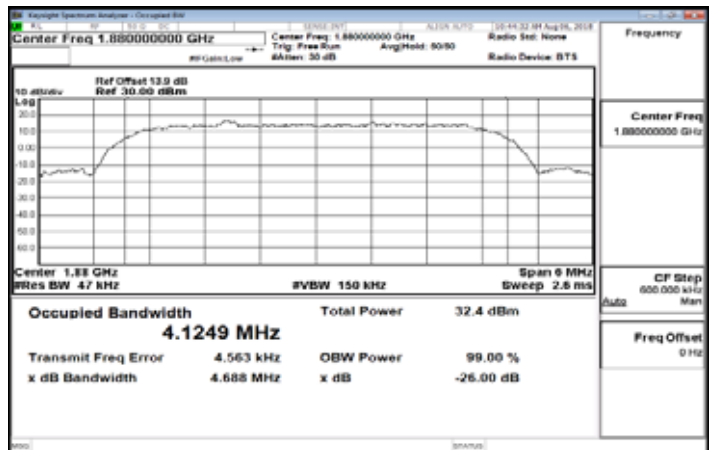
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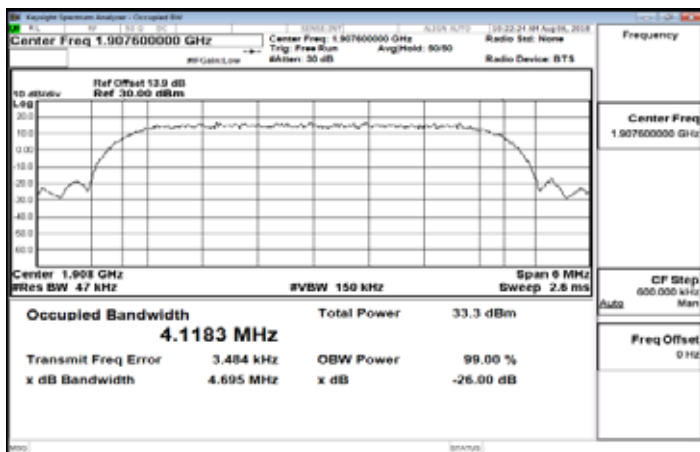
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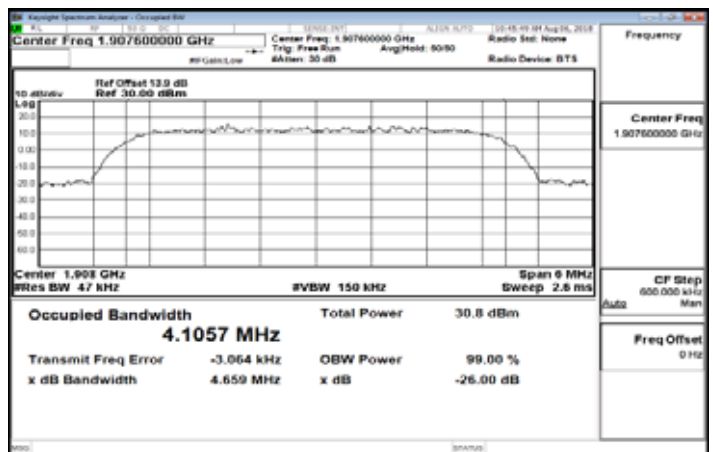
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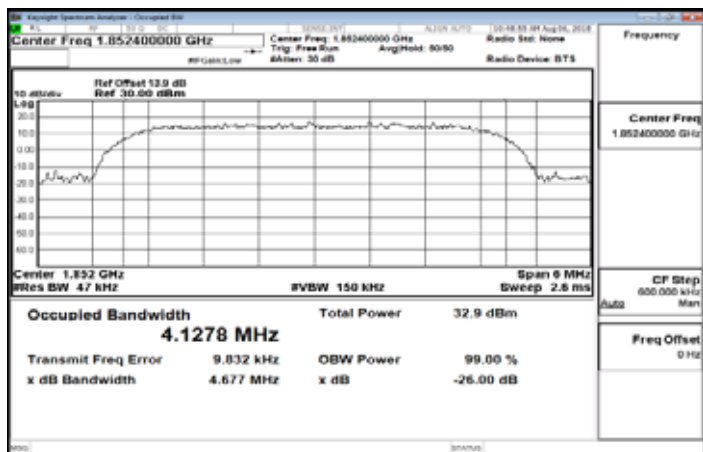
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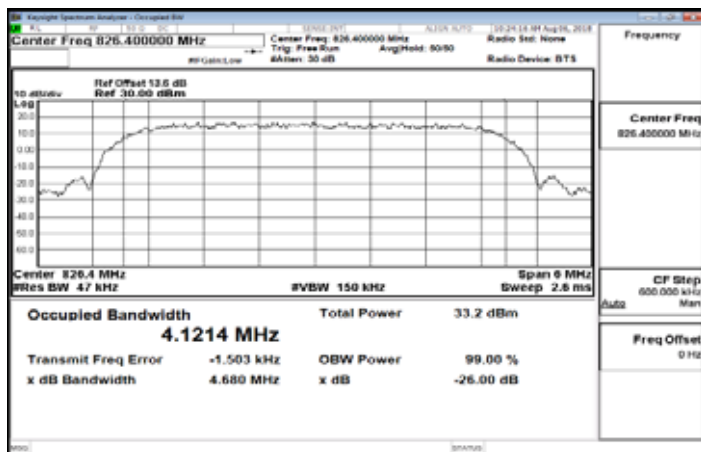
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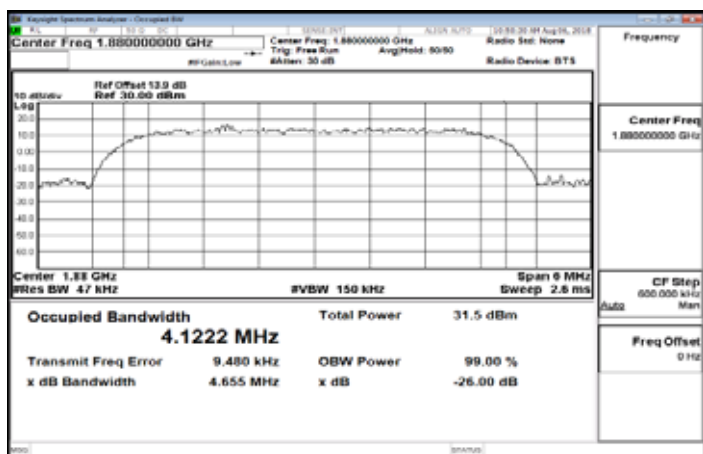
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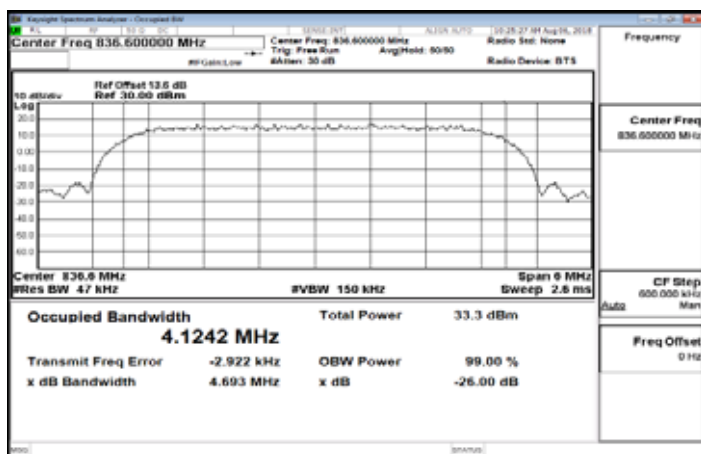
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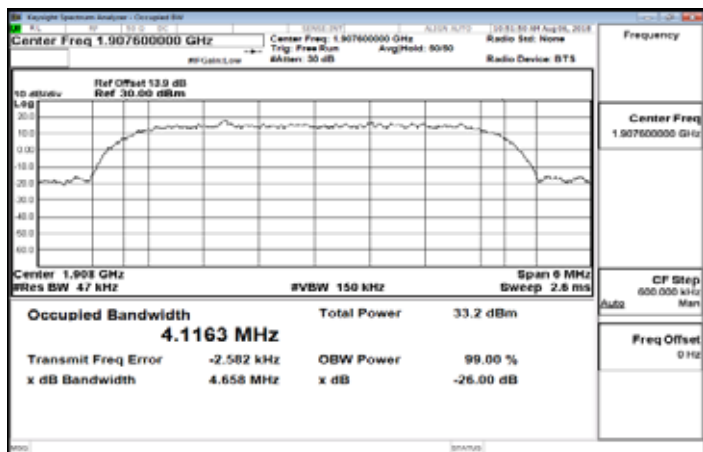
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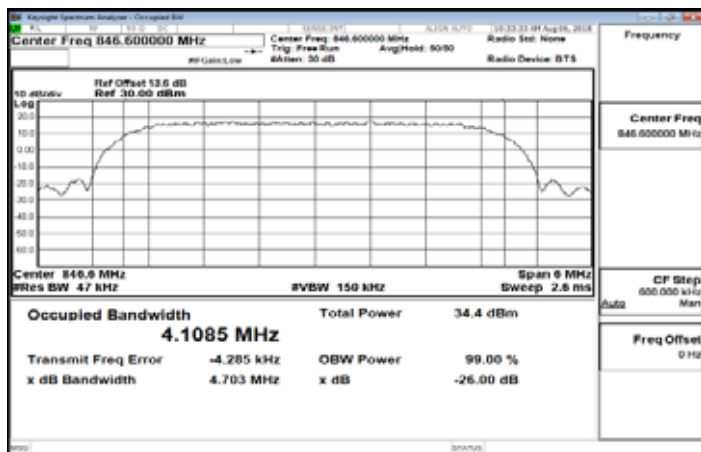
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B5\_HighCH4233-846.6



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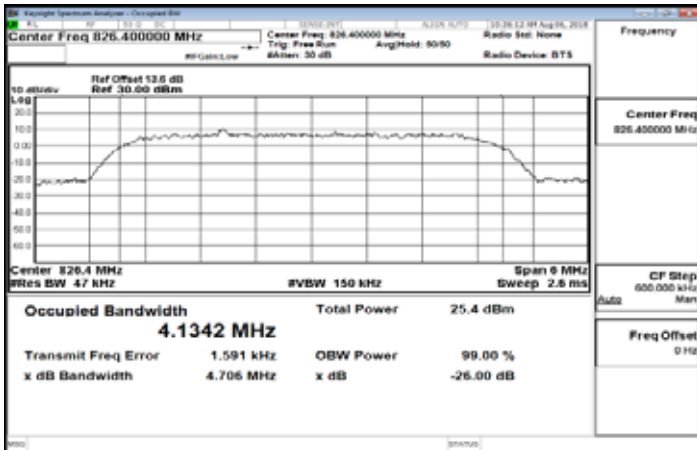
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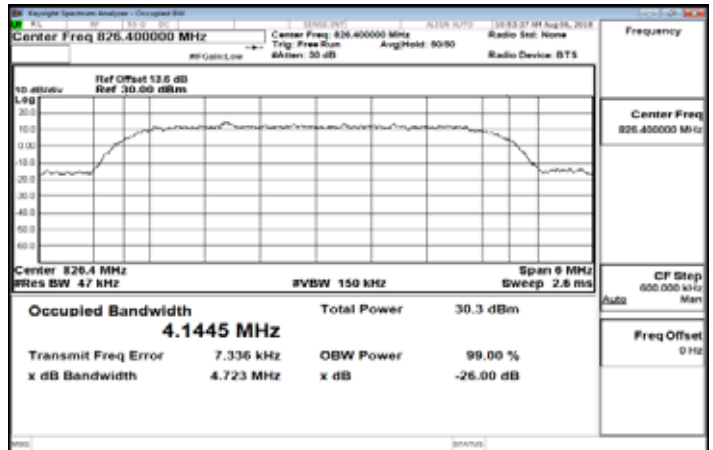
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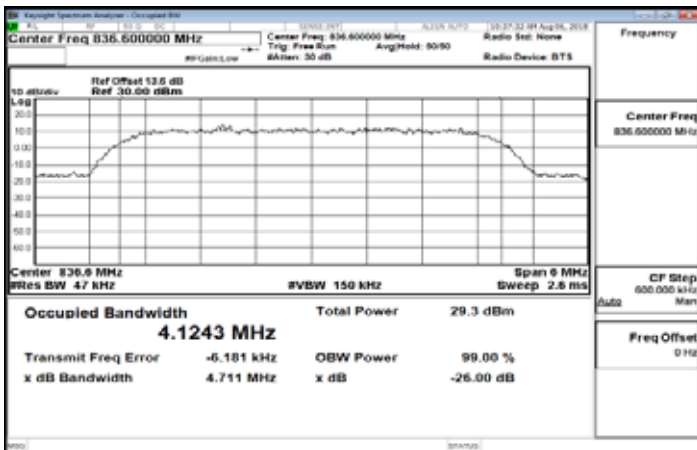
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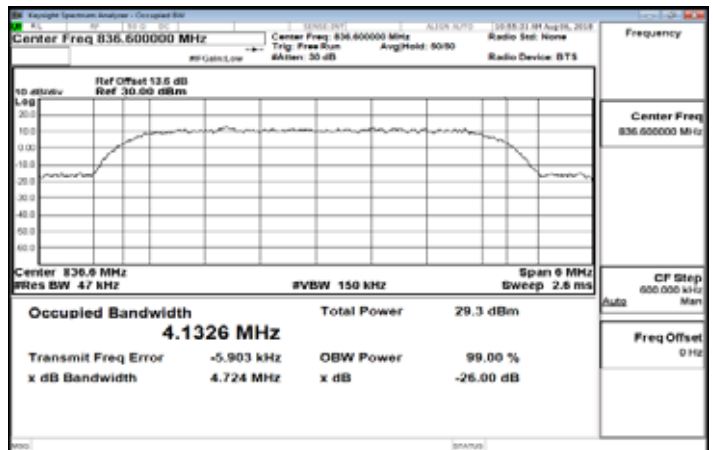
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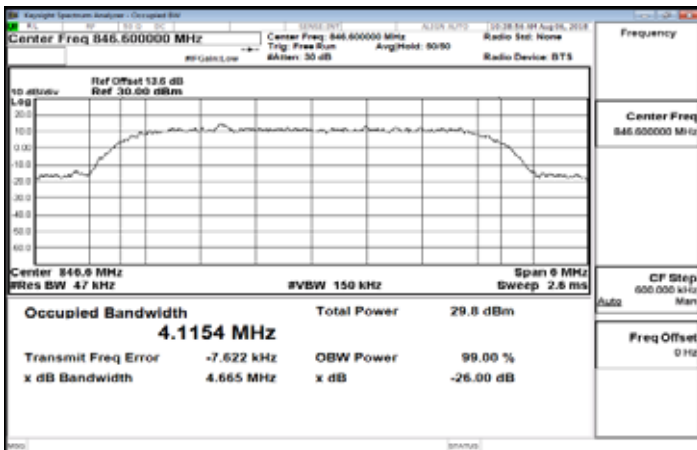
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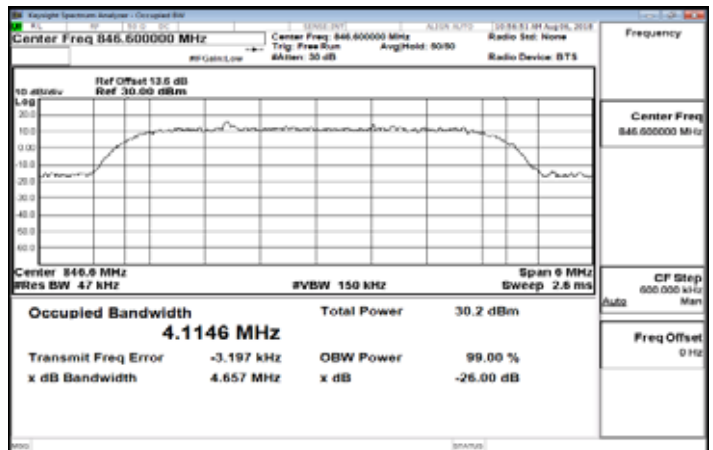
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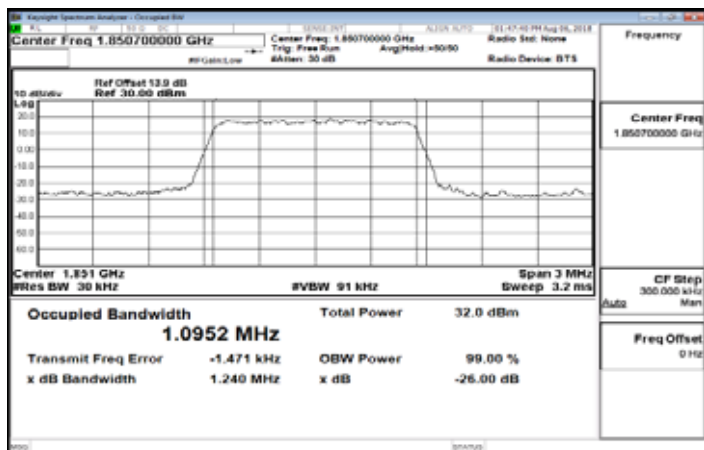
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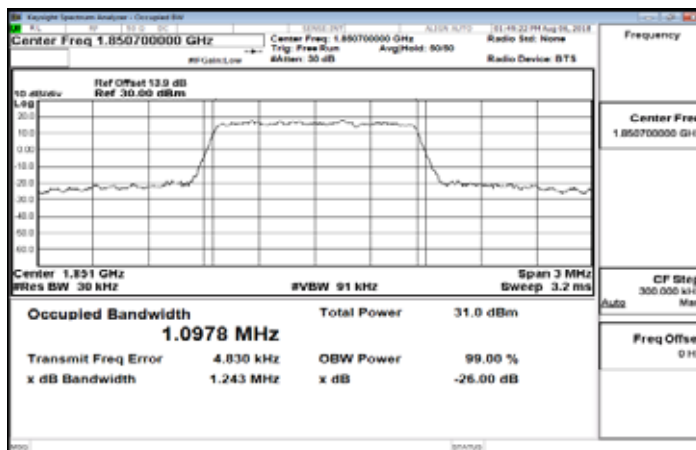
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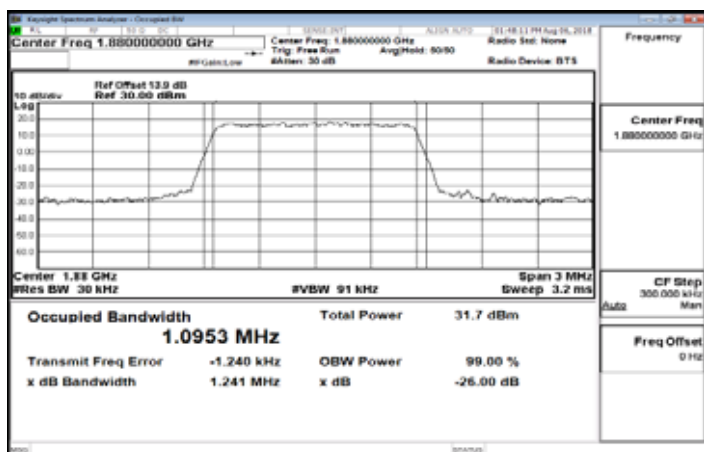
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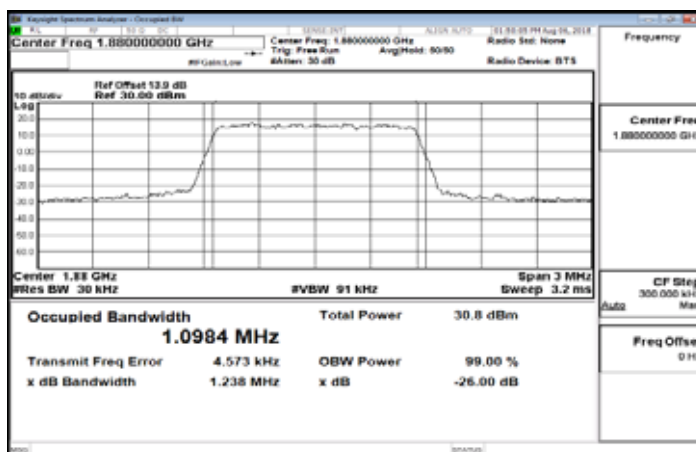
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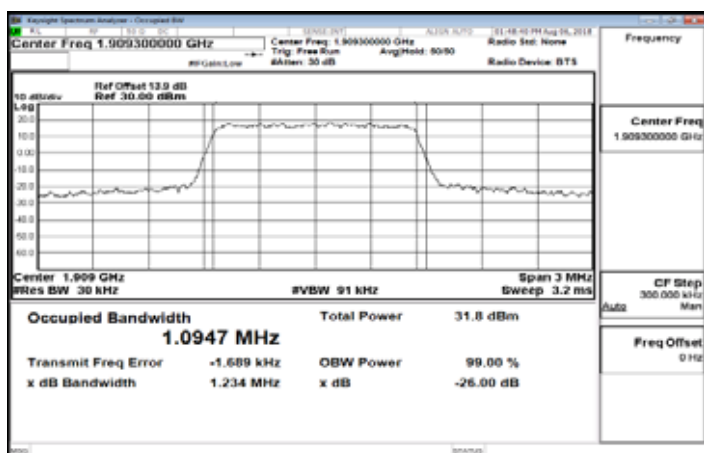
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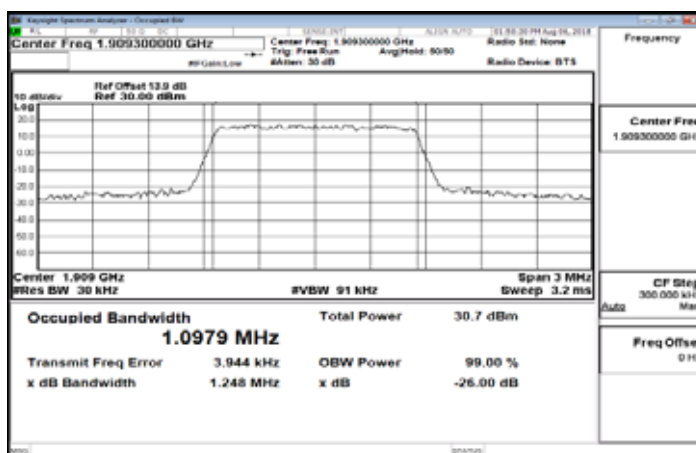
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Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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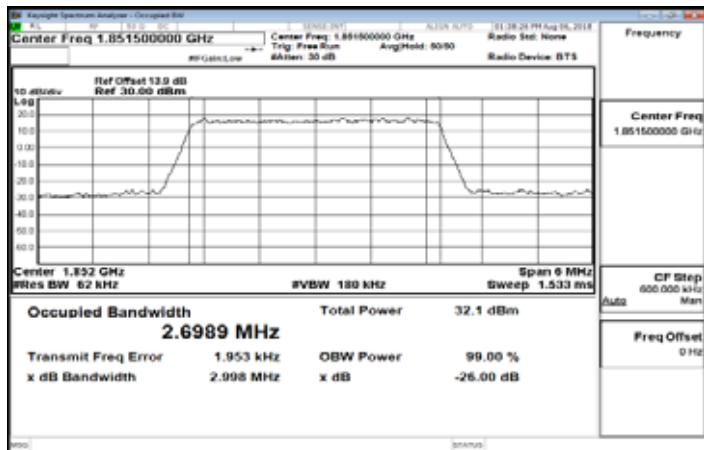
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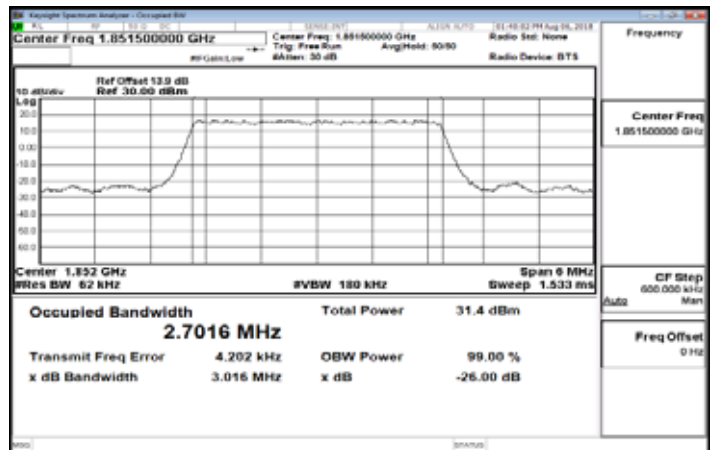
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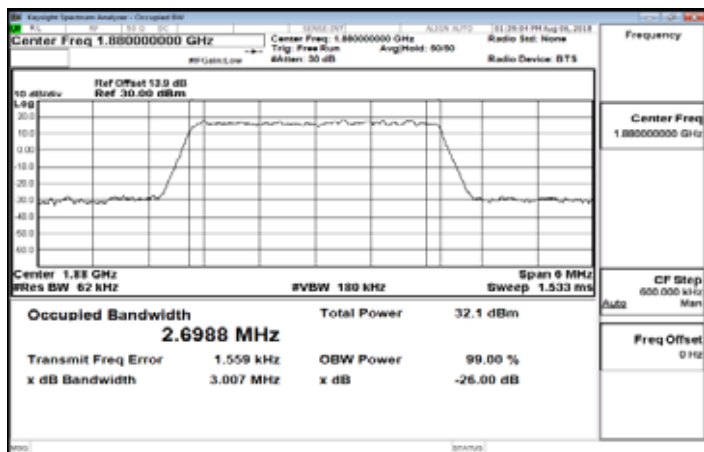
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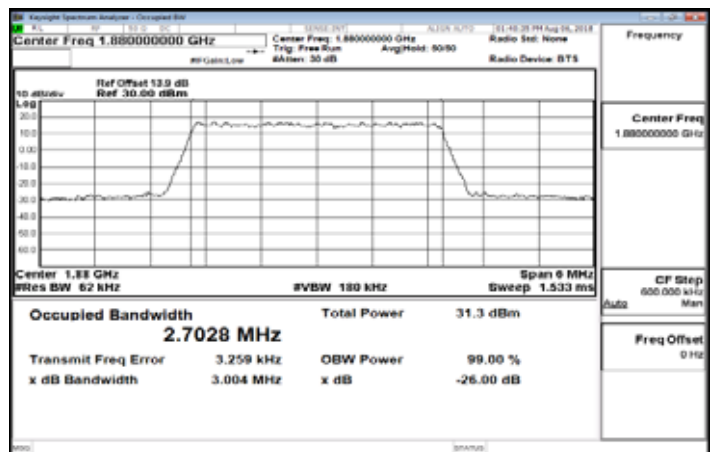
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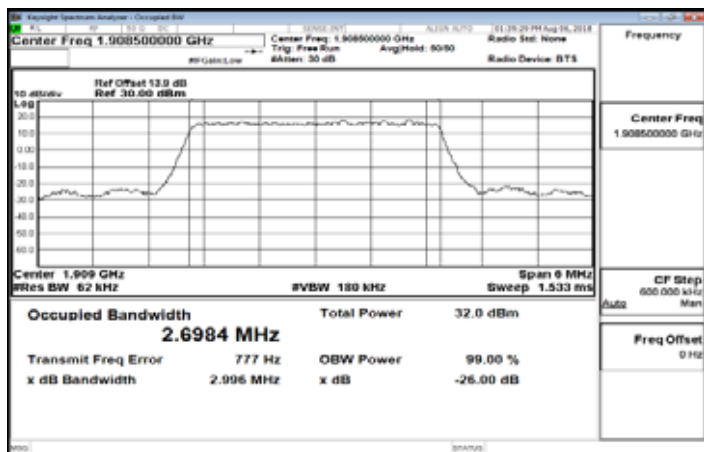
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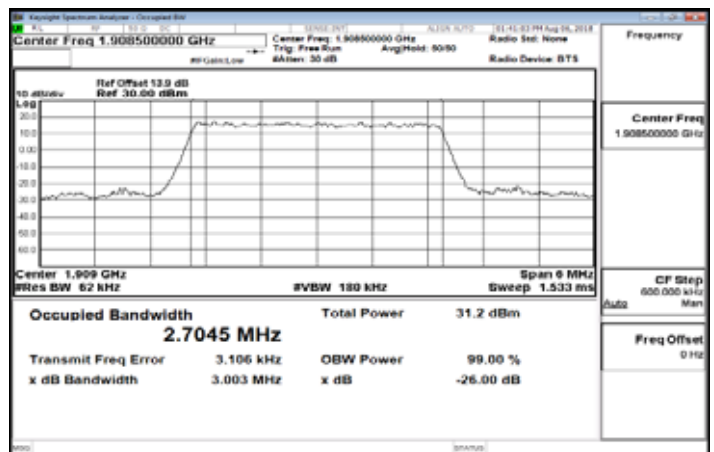
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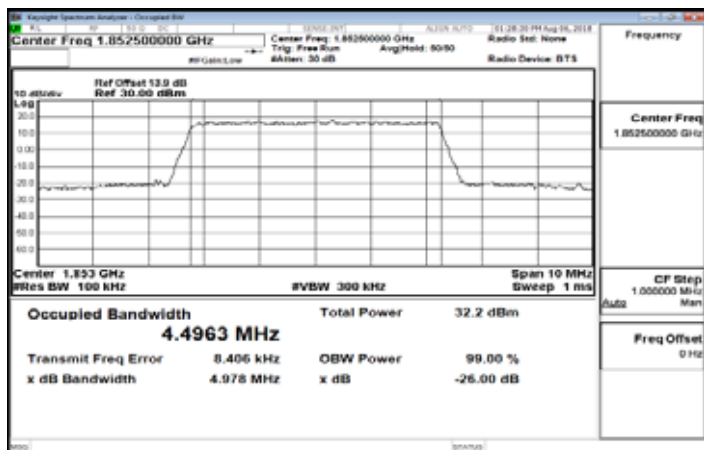
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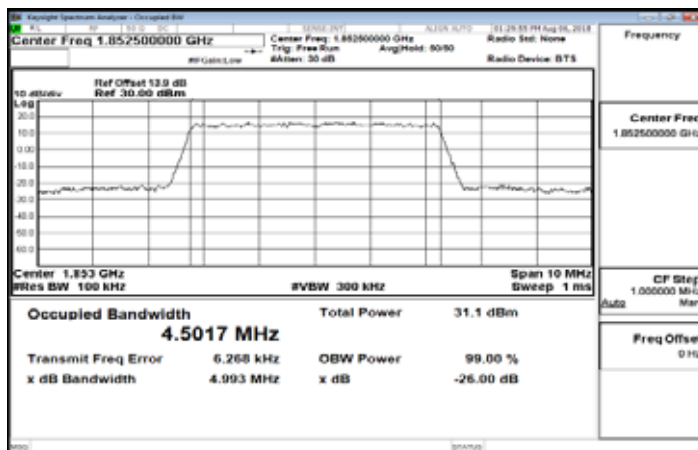
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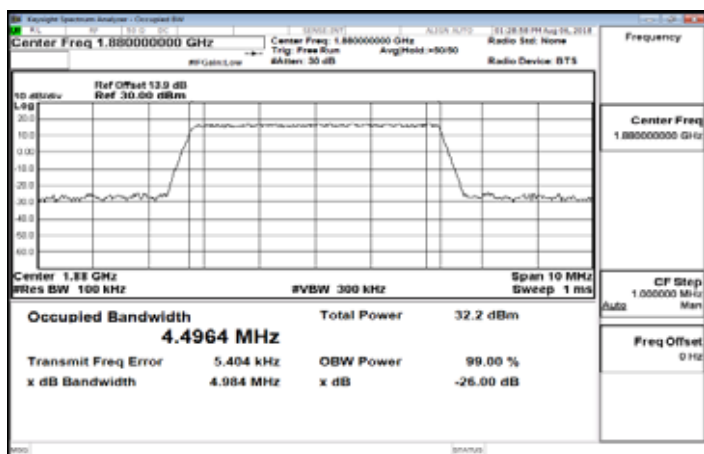
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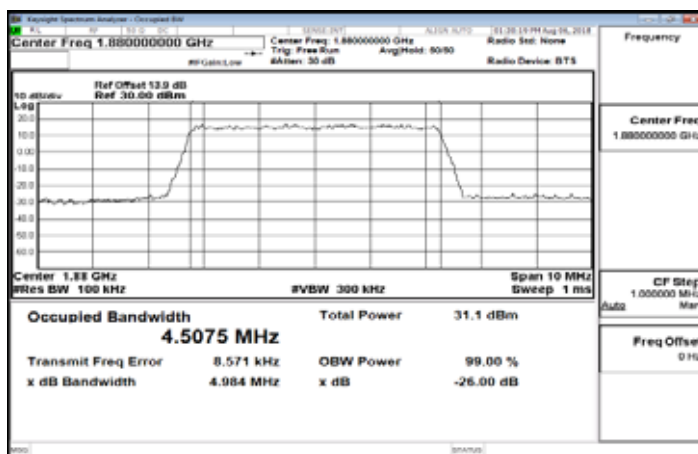
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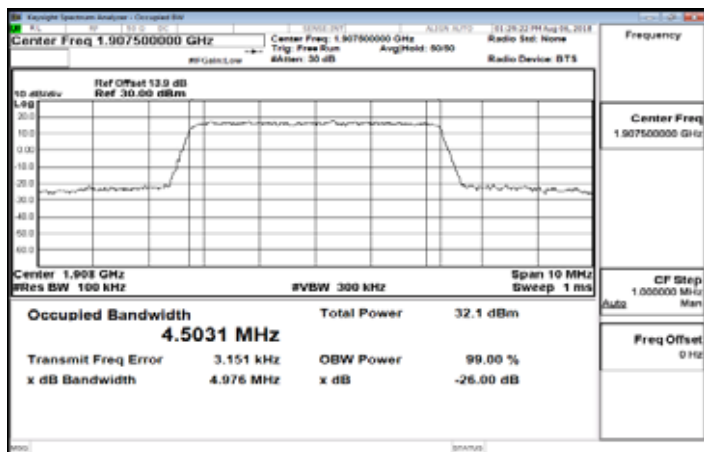
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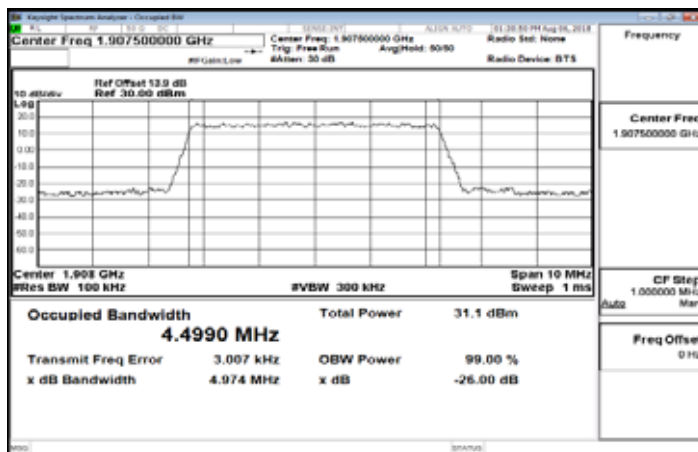
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Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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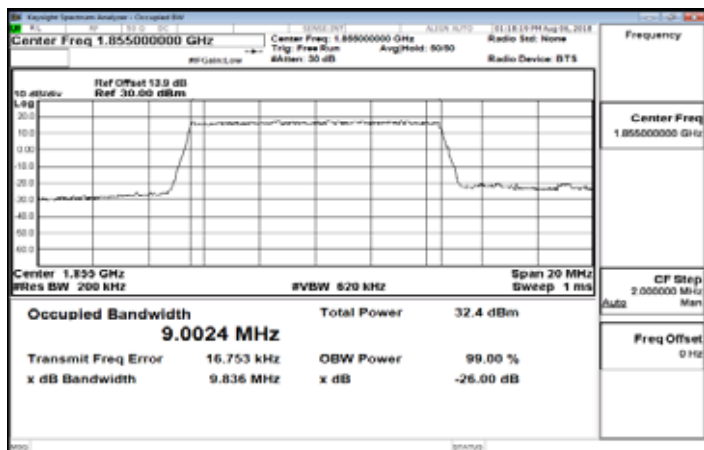
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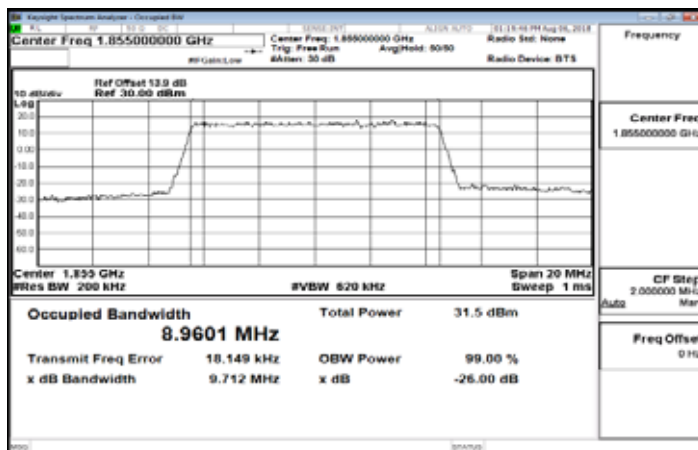
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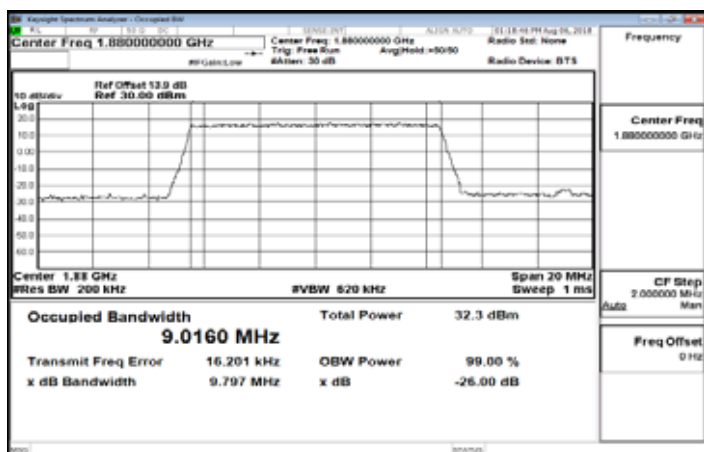
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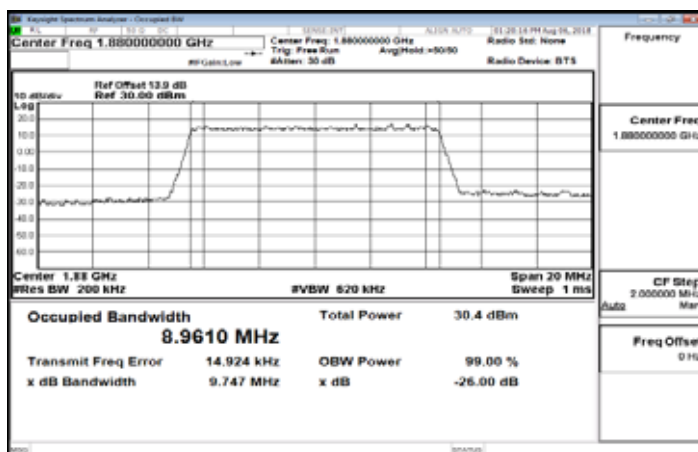
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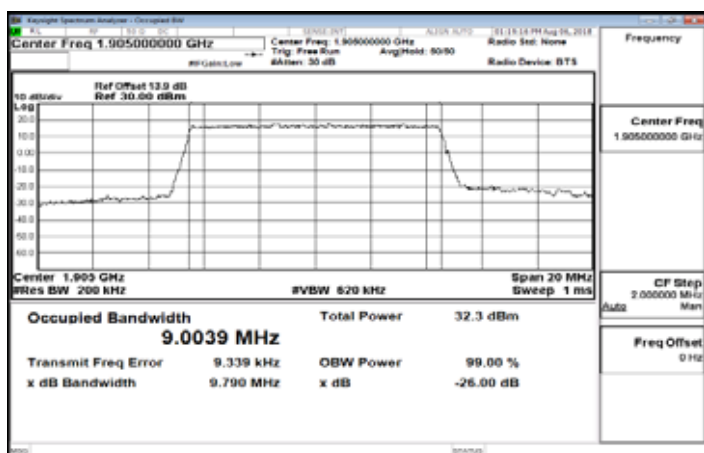
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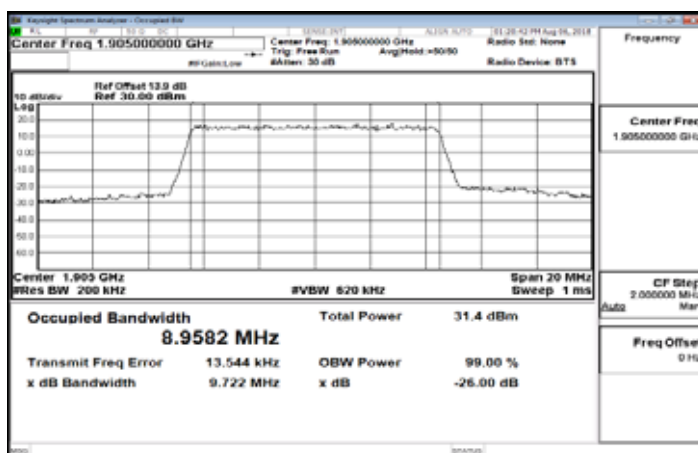
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Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



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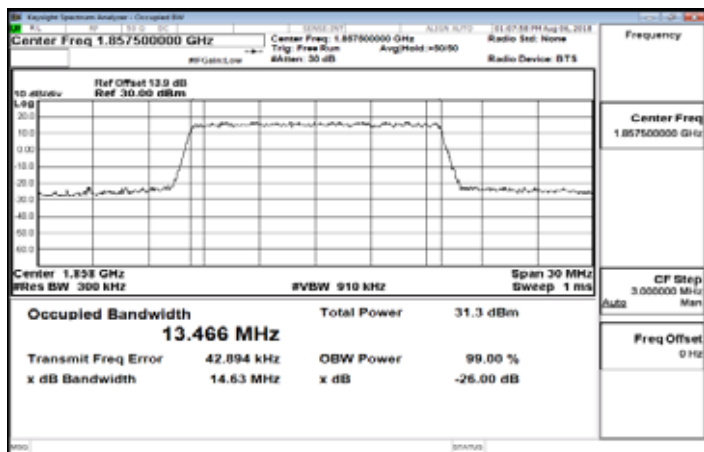
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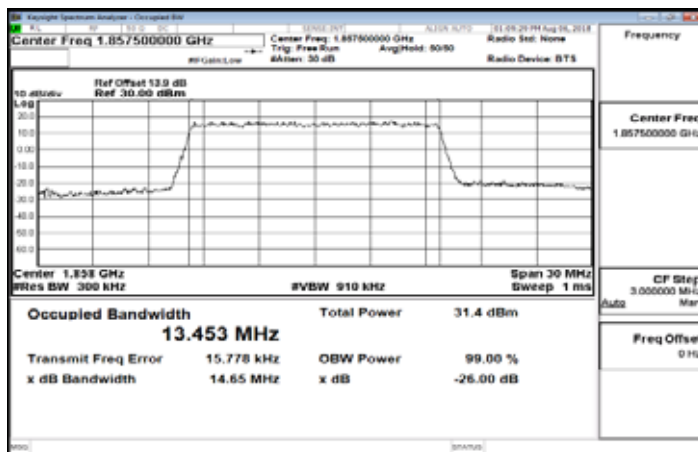
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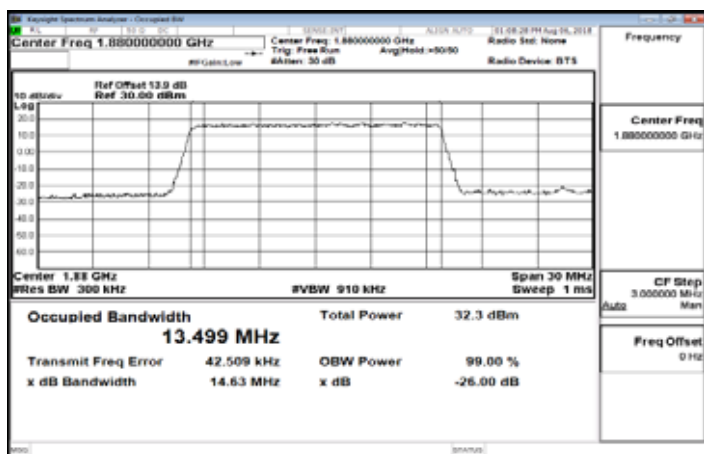
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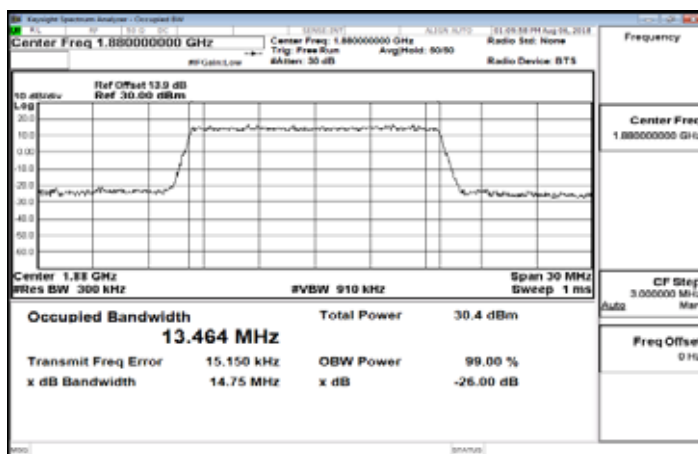
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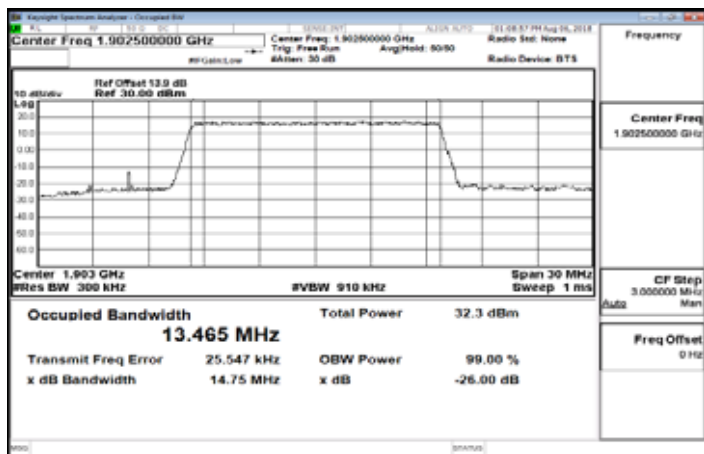
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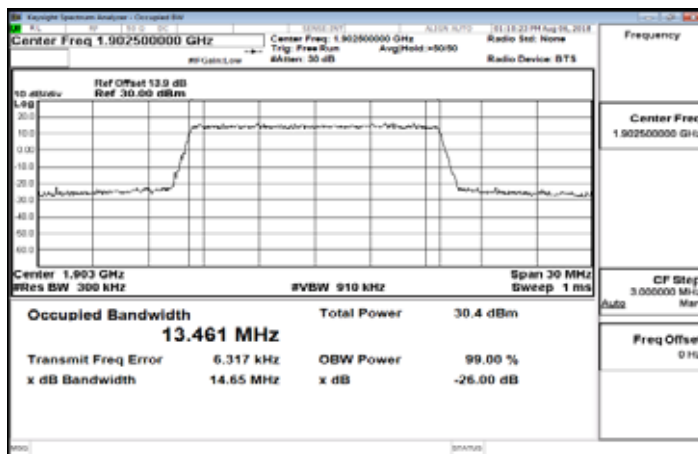
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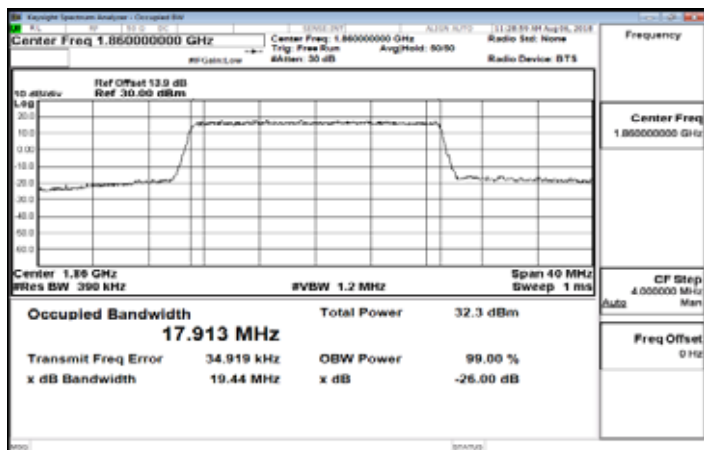
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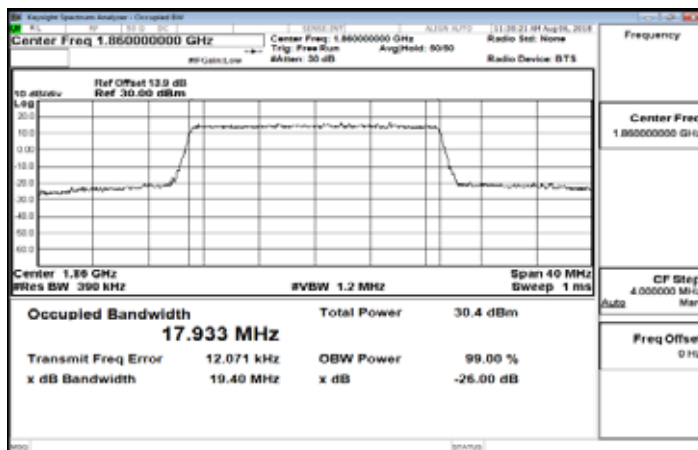
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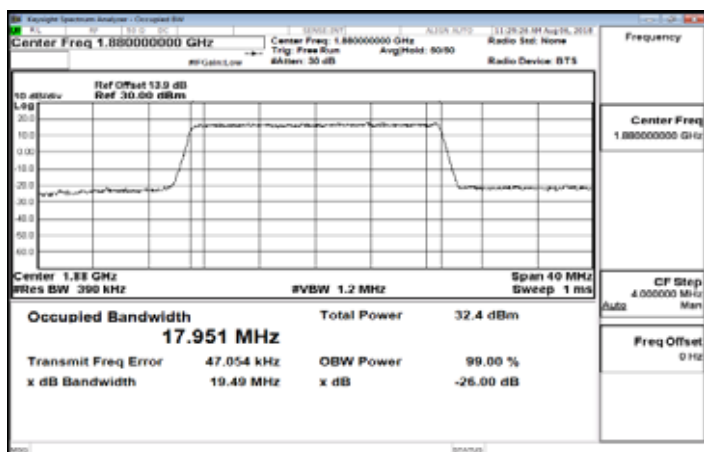
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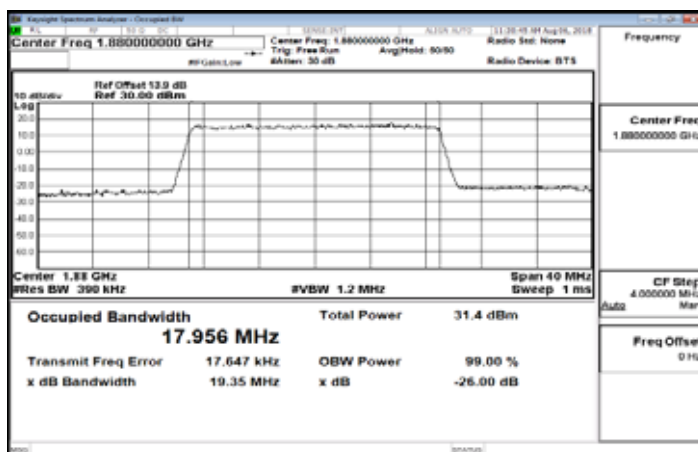
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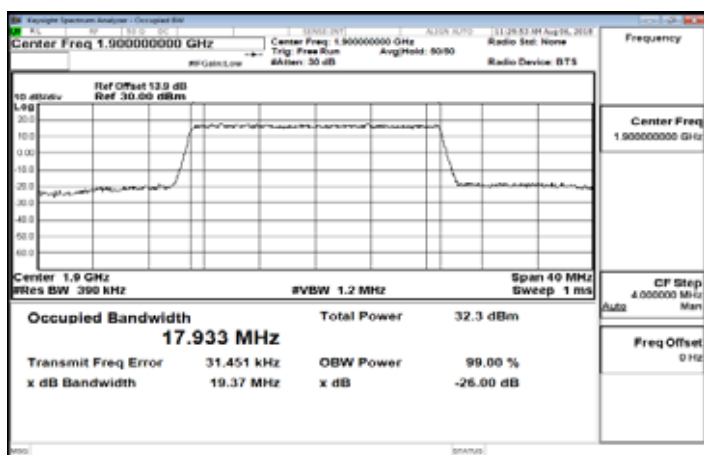
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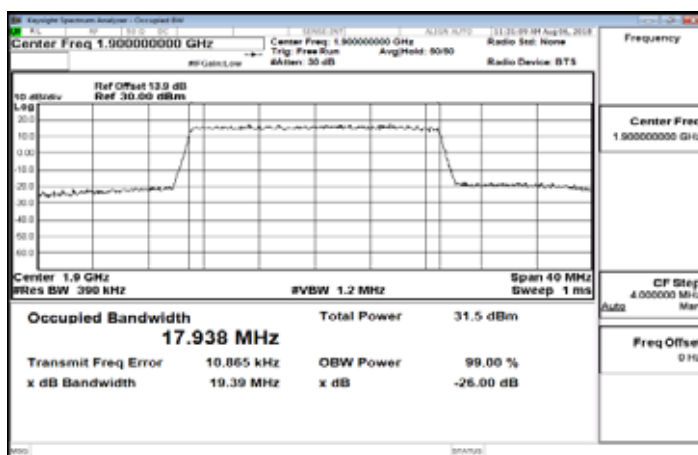
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Band2\_20MHz\_QPSK\_100\_0\_HighCH19100-1900



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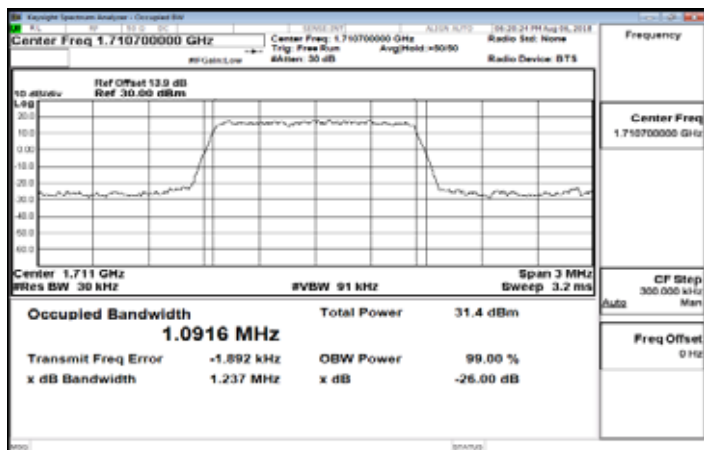
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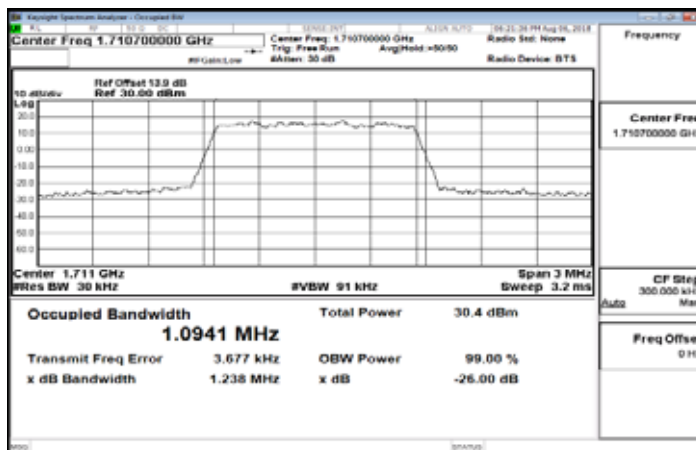
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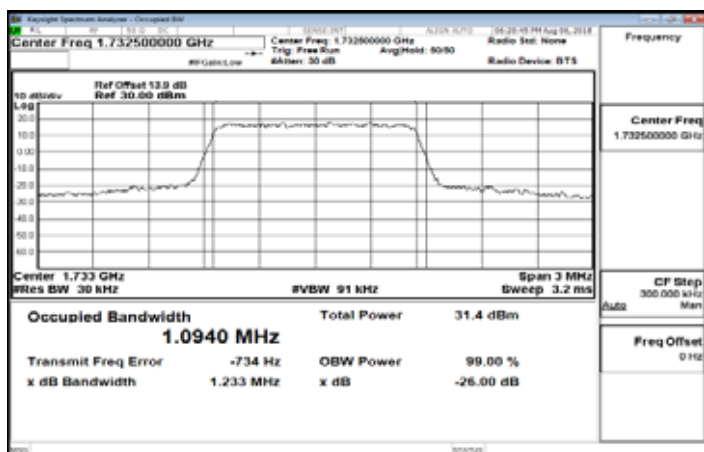
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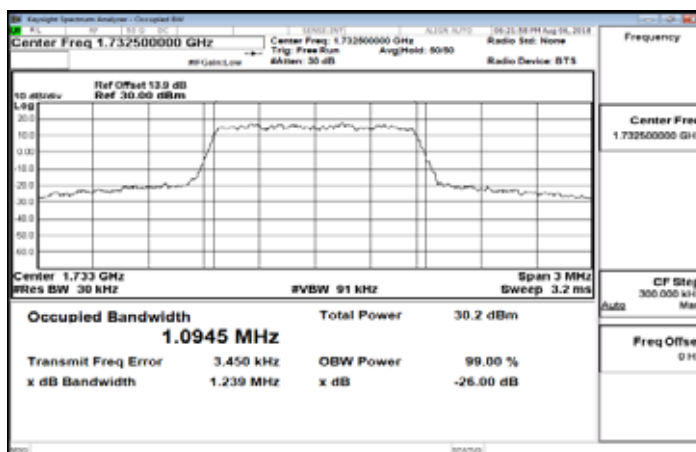
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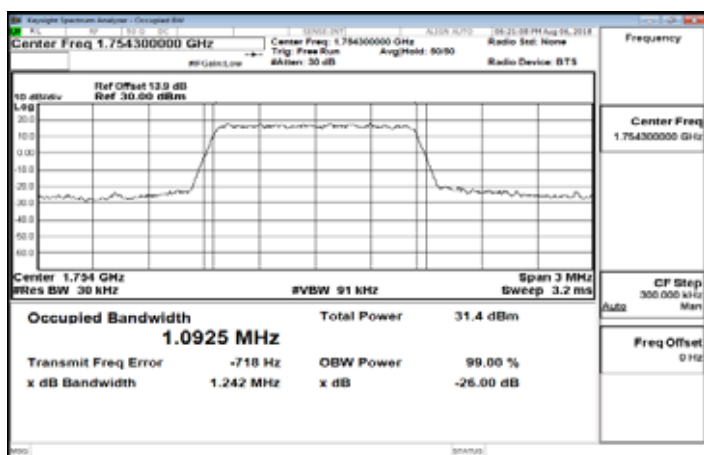
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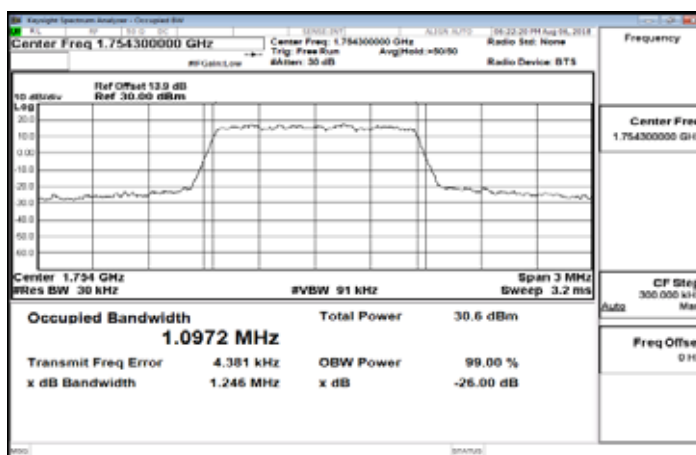
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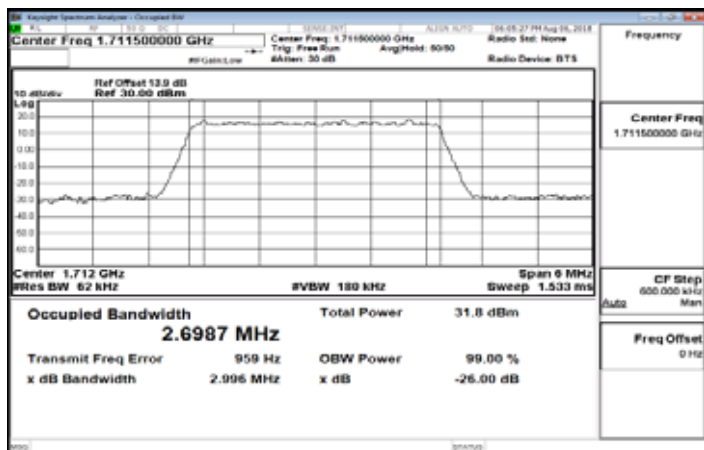
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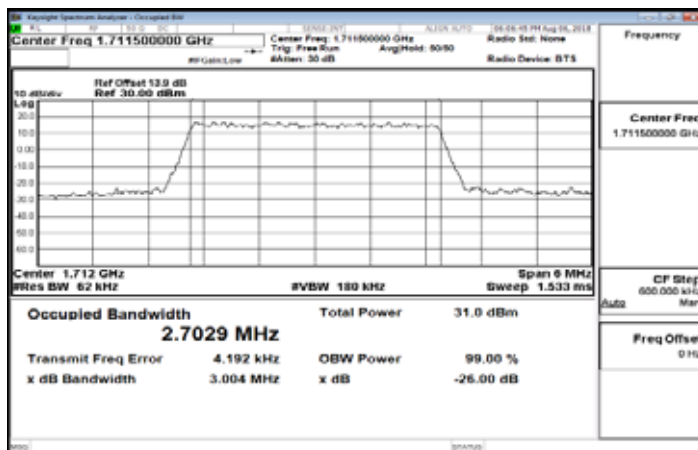
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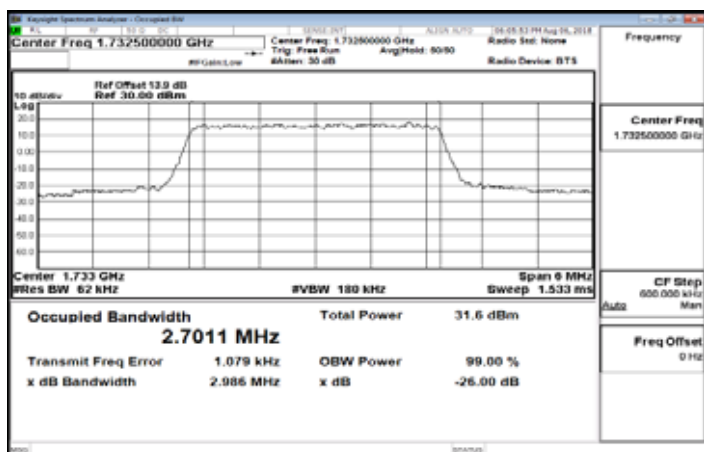
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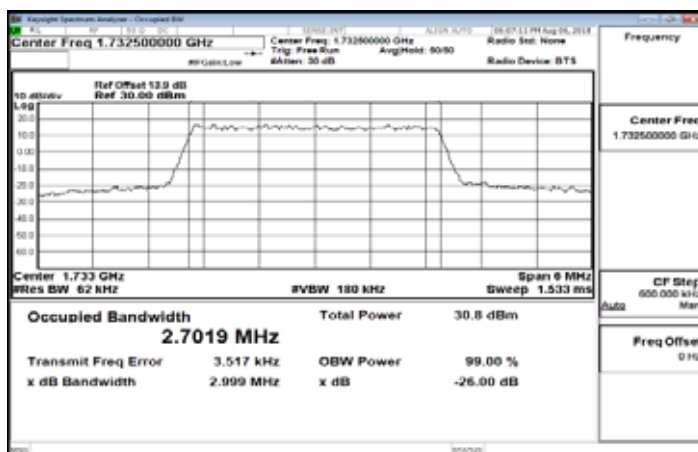
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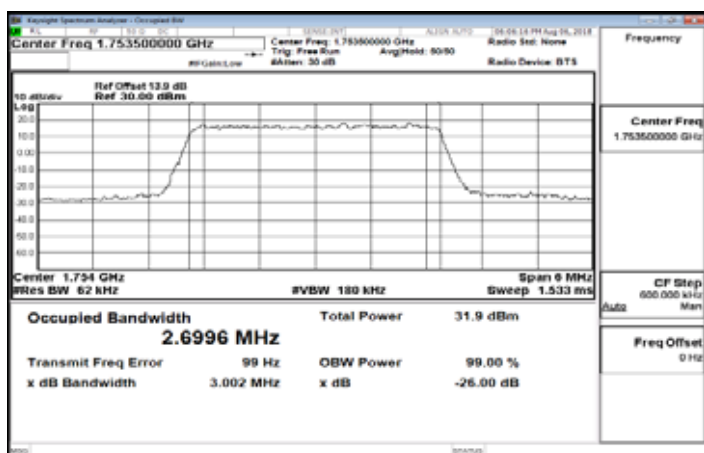
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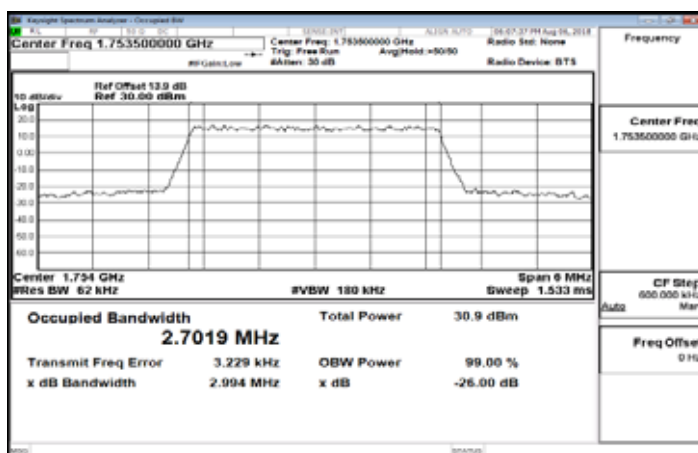
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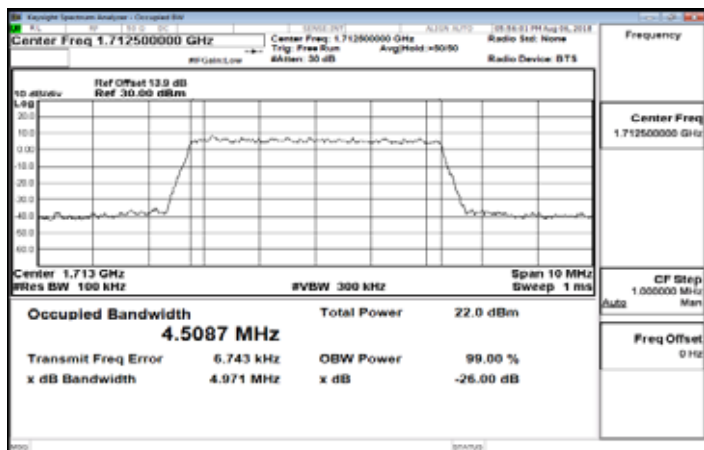
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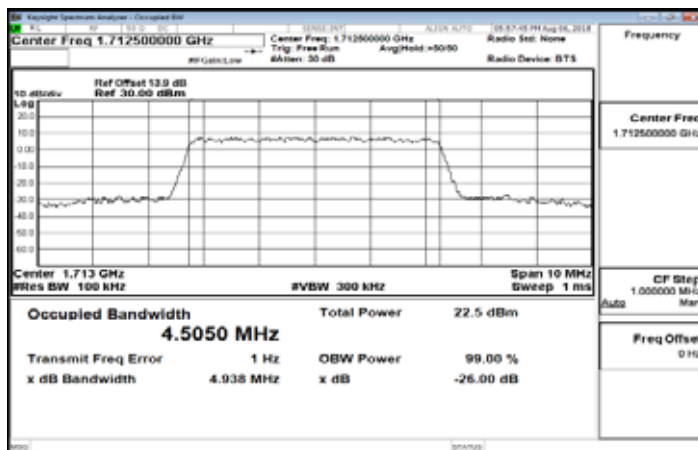
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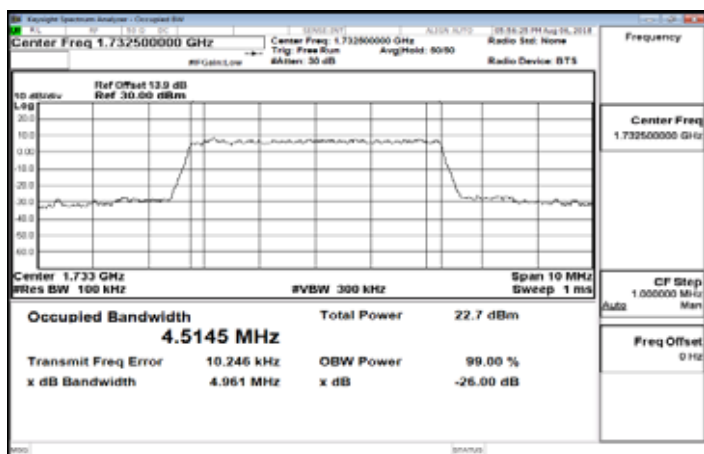
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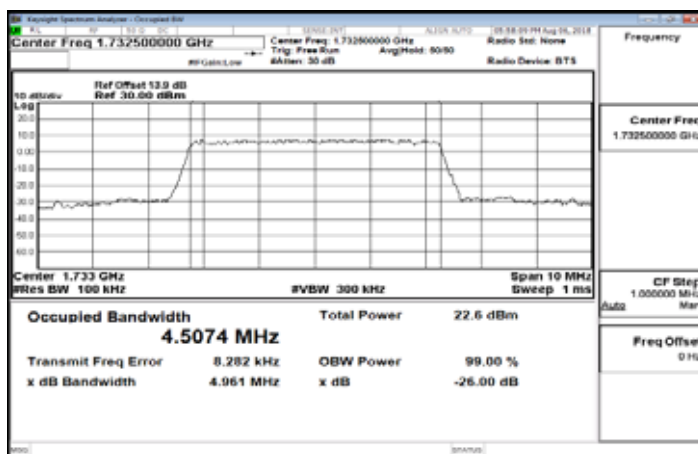
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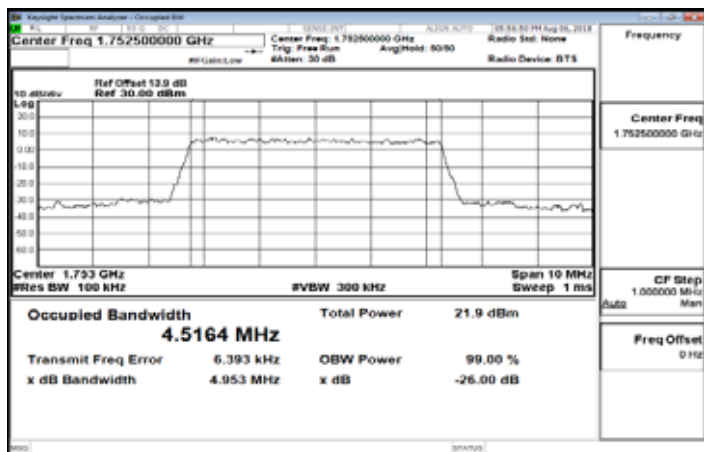
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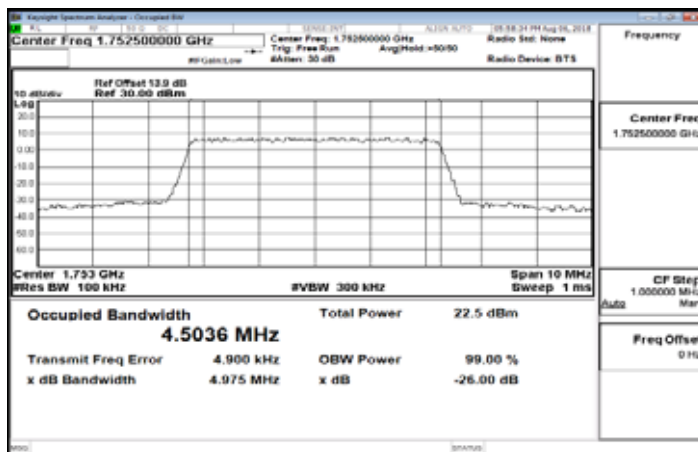
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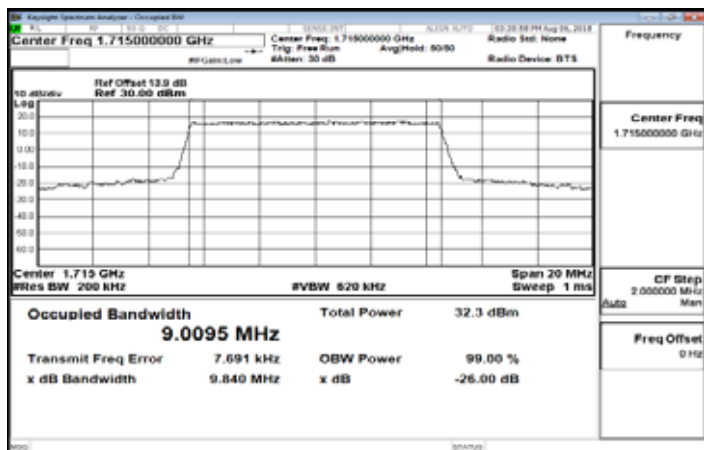
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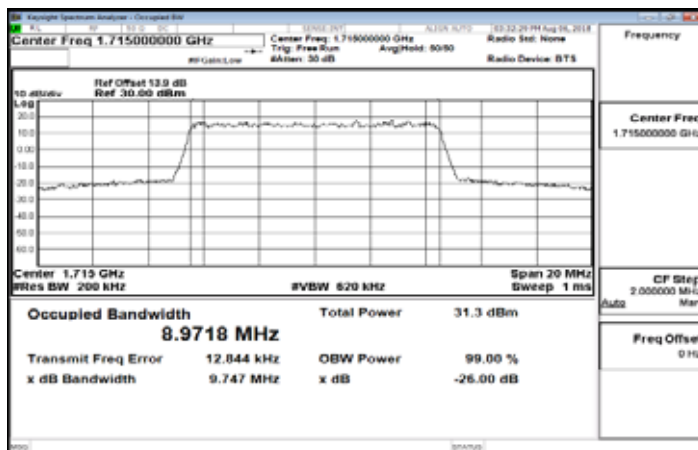
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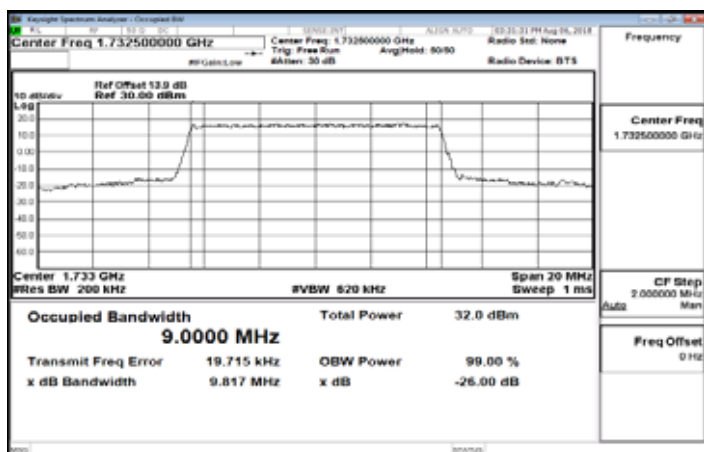
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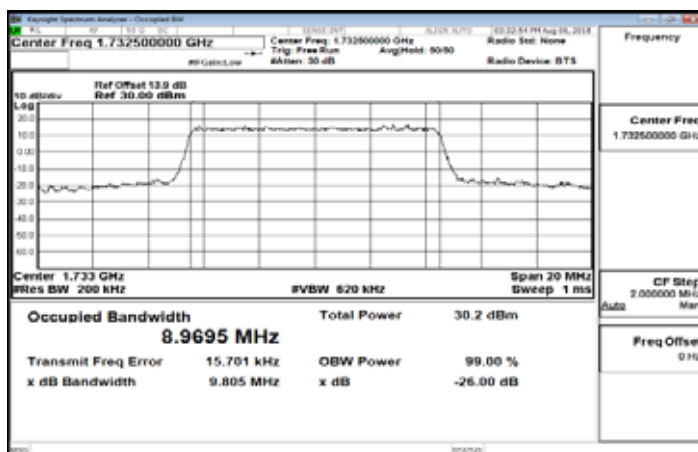
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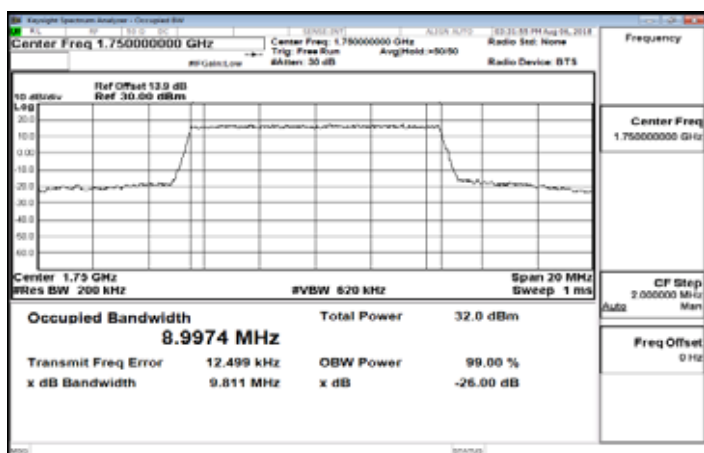
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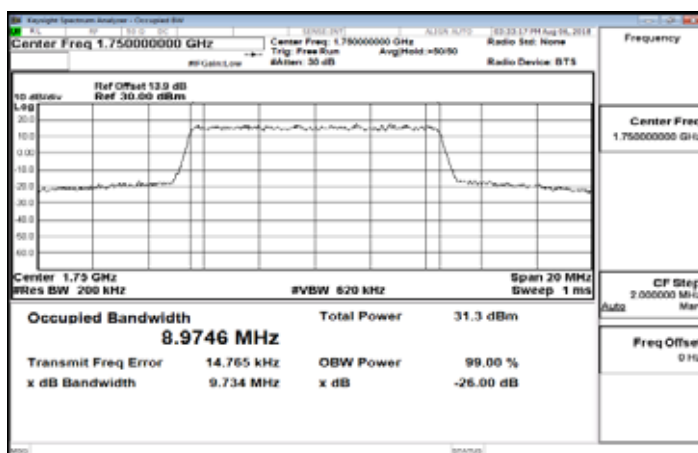
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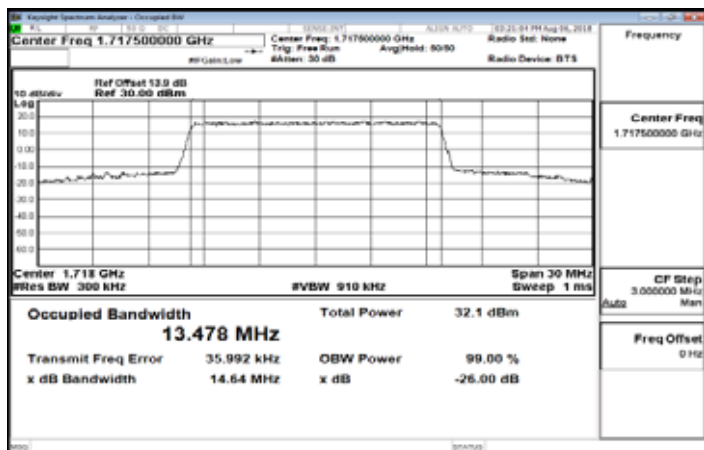
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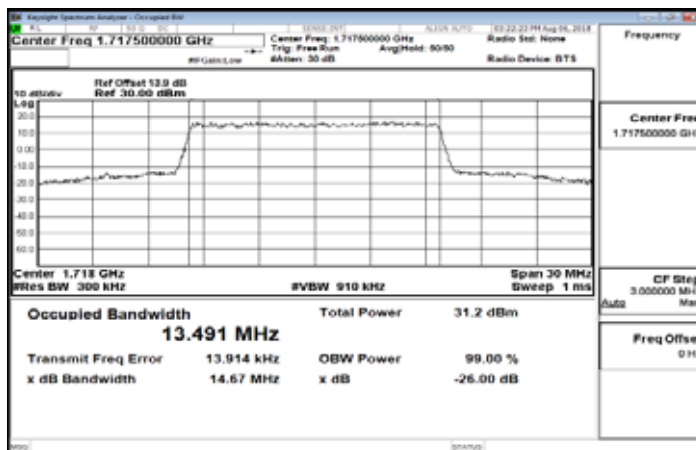
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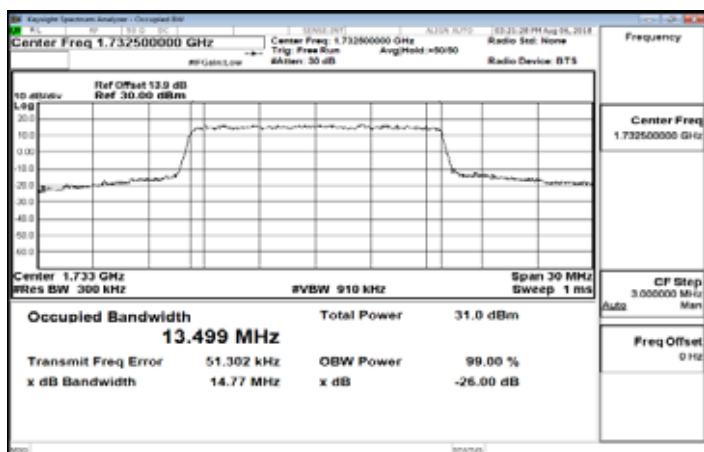
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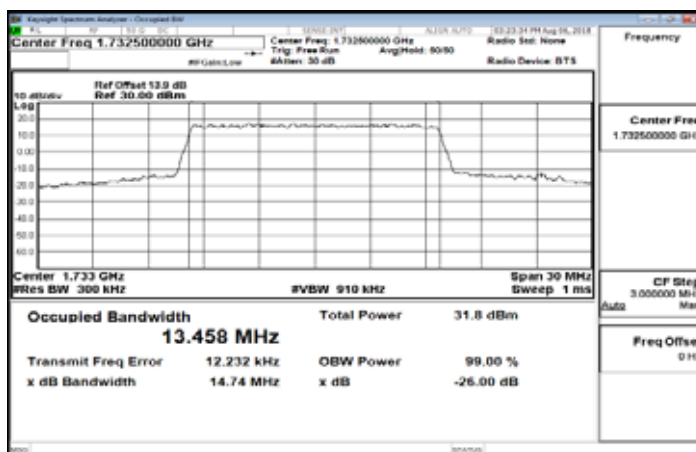
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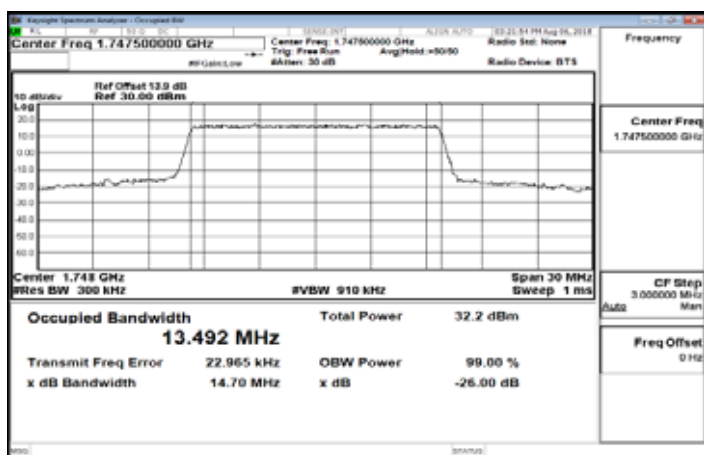
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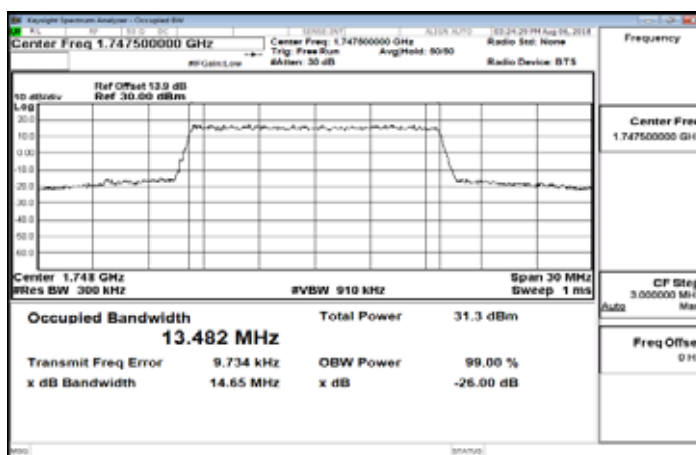
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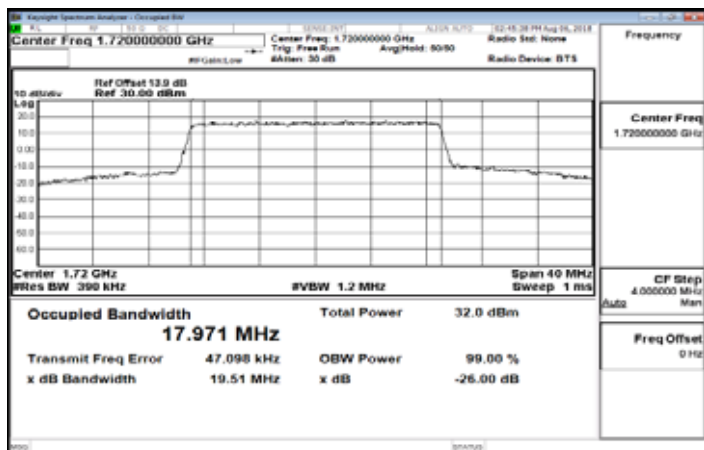
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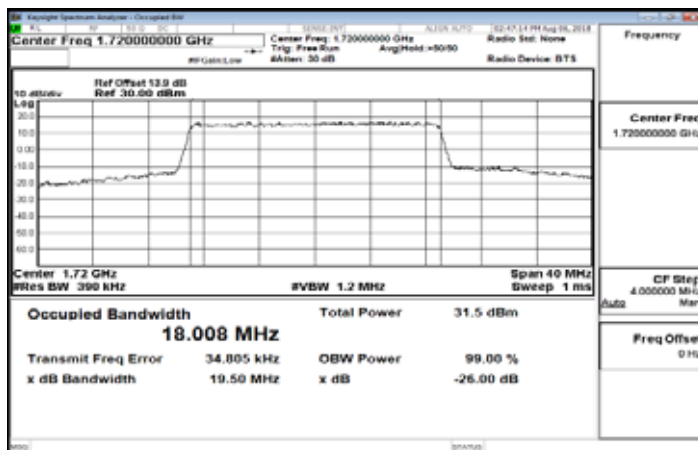
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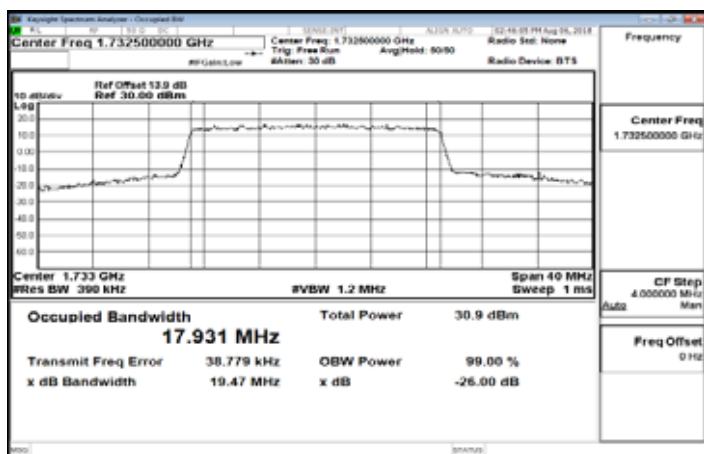
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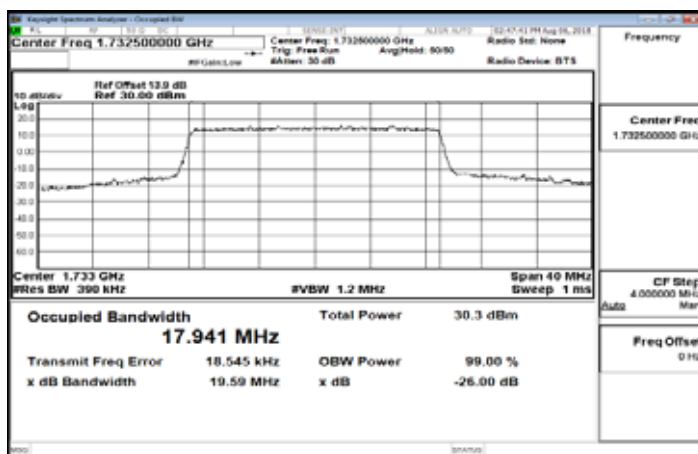
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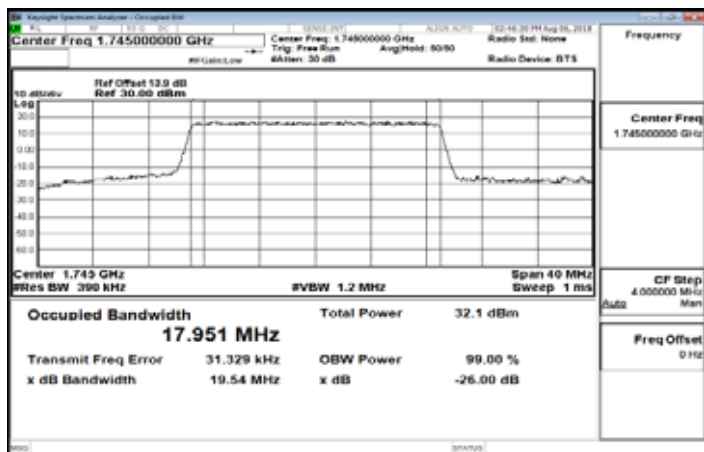
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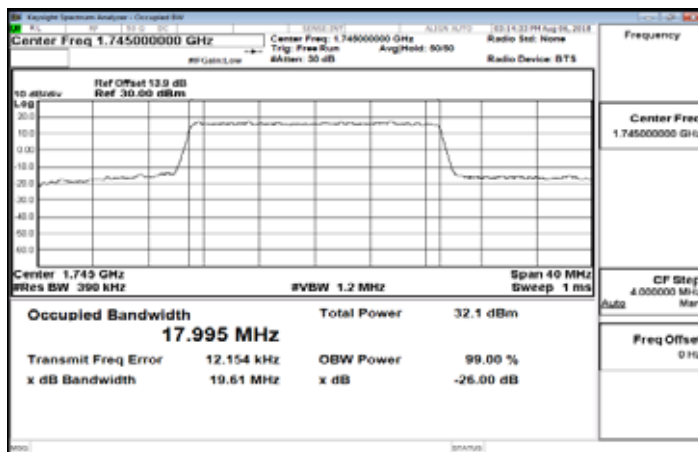
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Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



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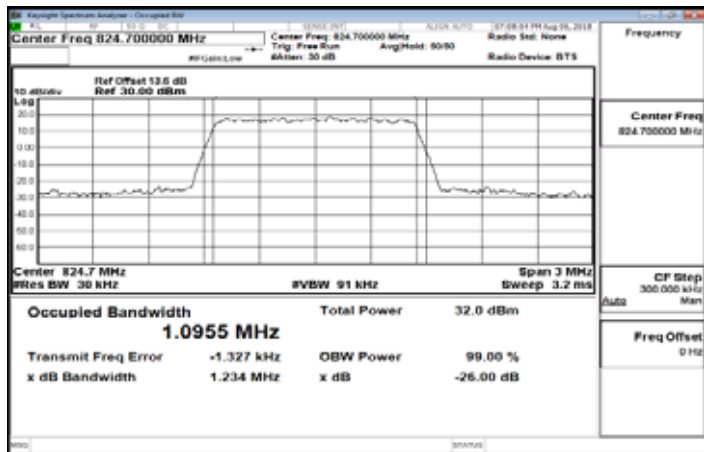
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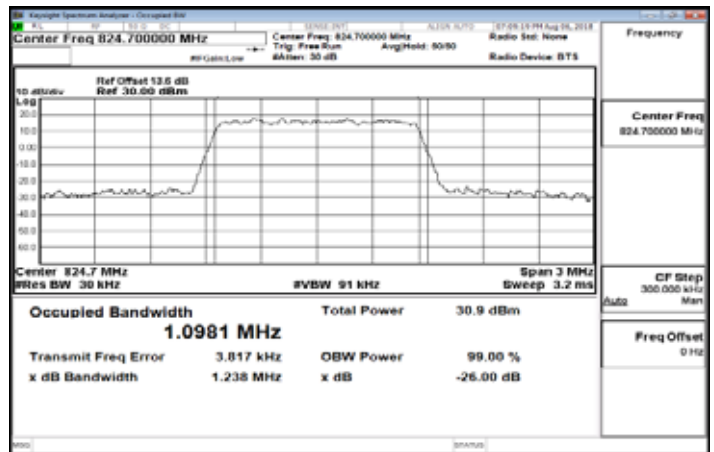
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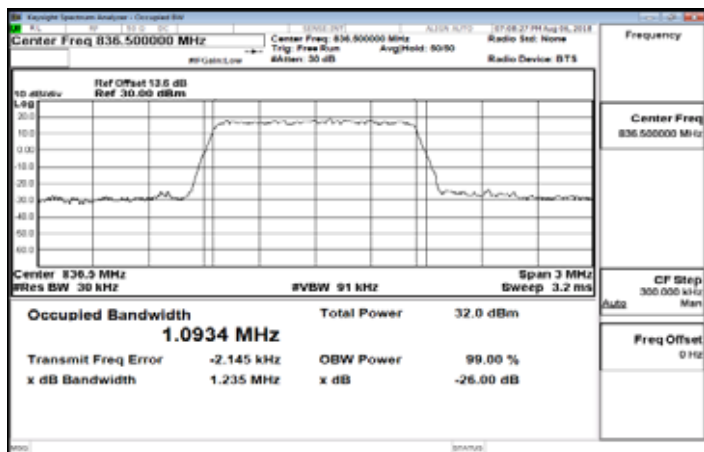
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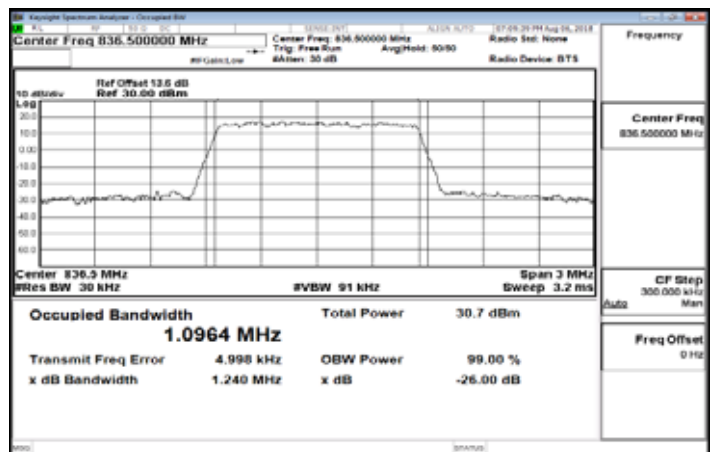
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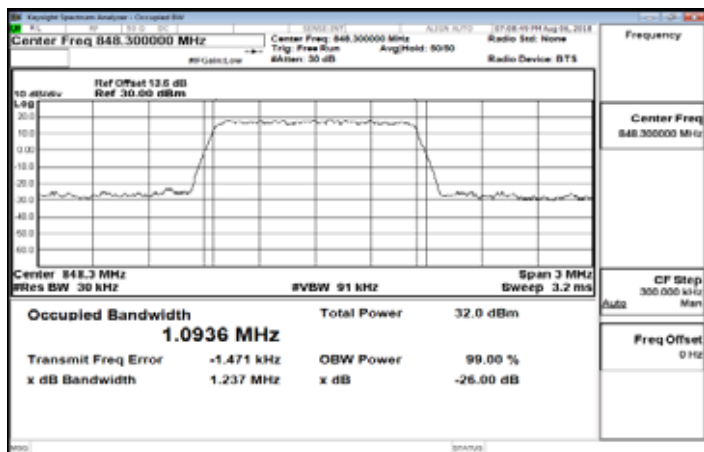
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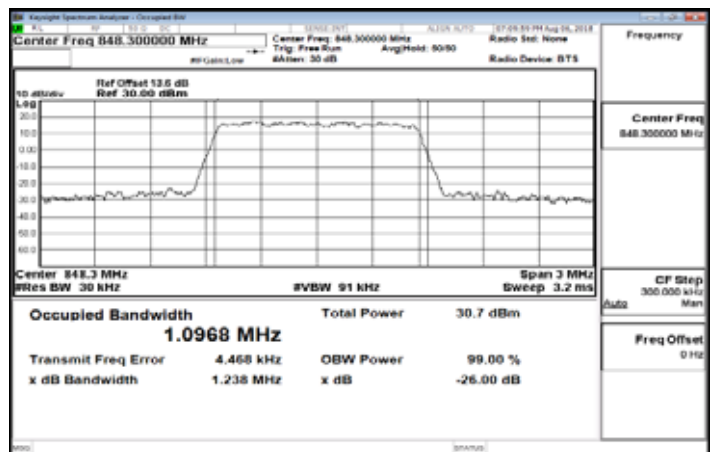
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Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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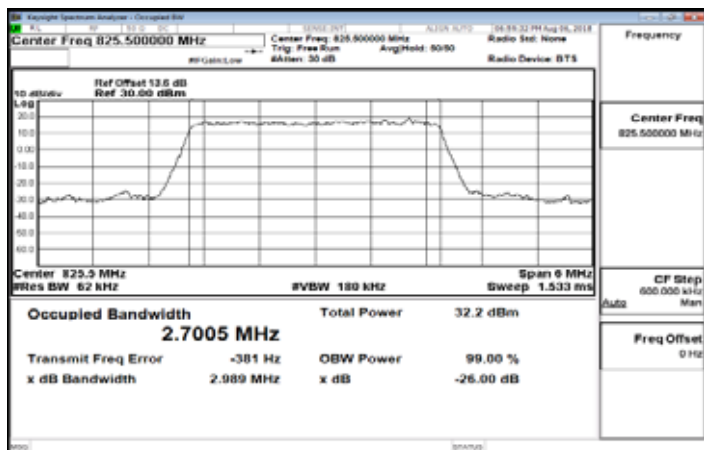
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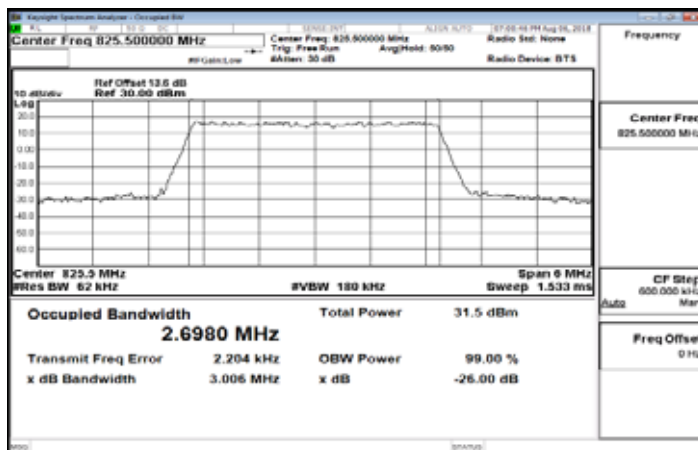
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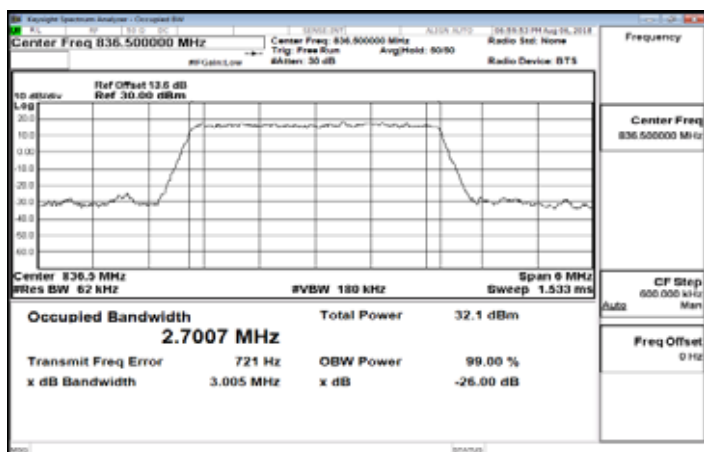
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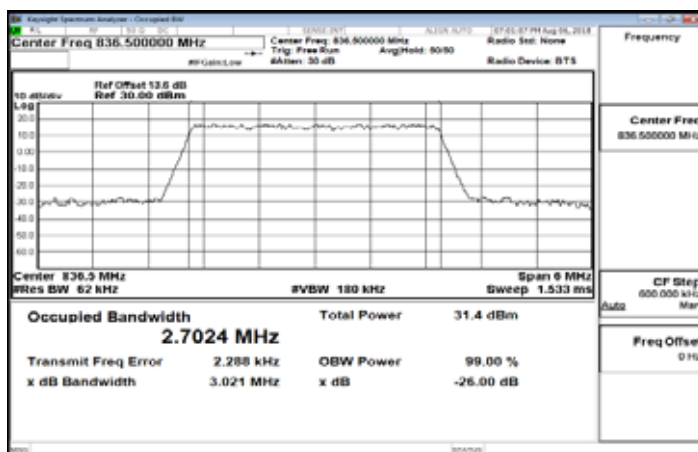
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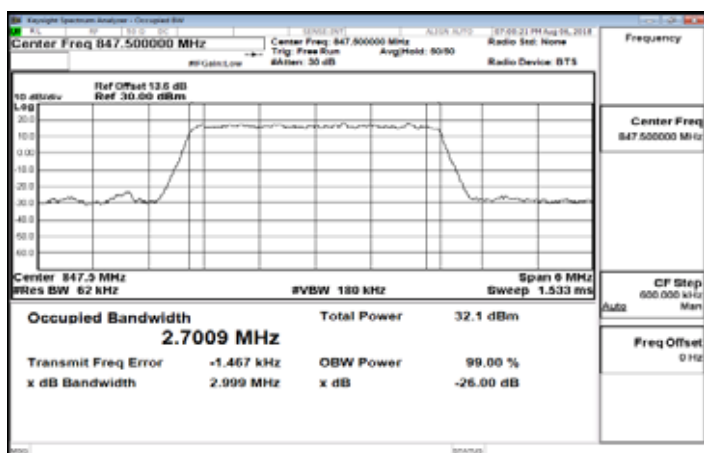
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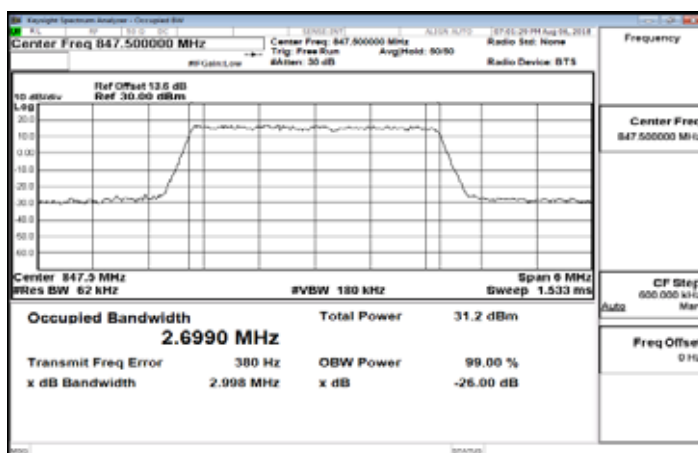
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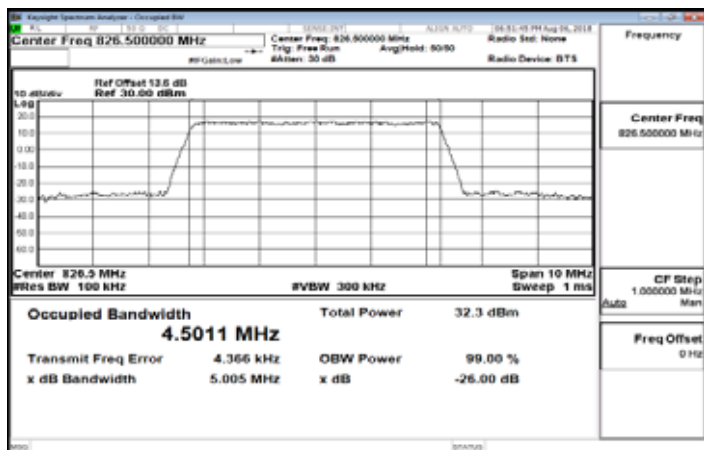
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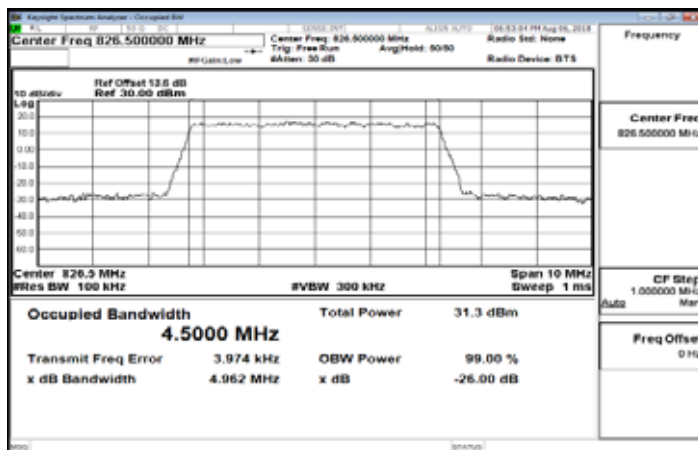
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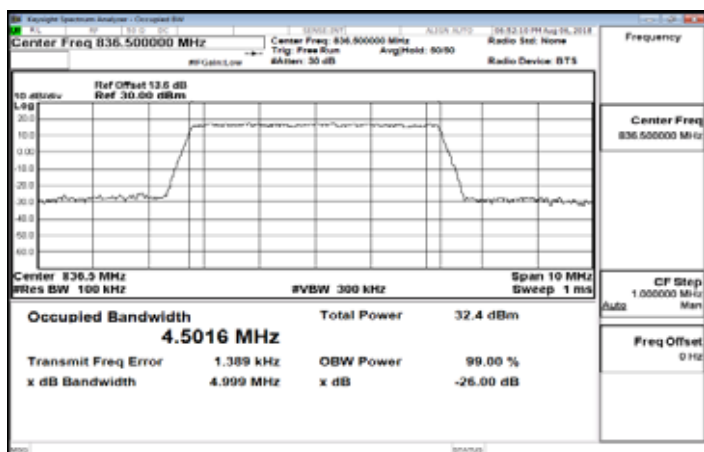
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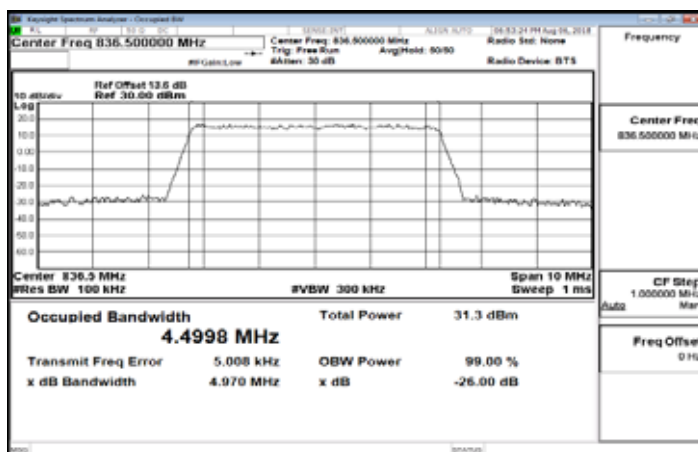
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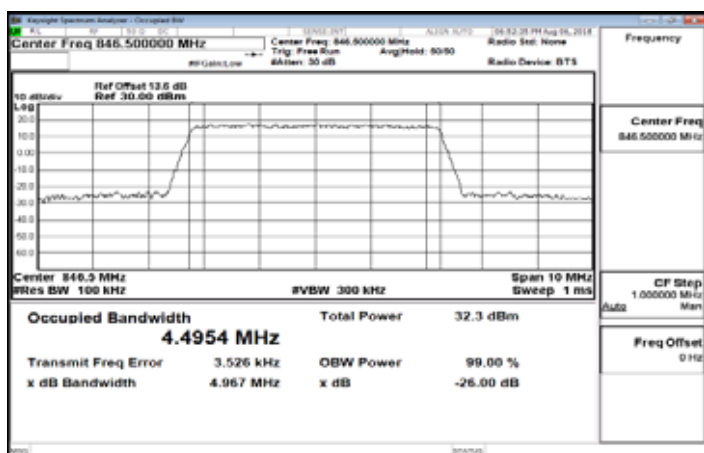
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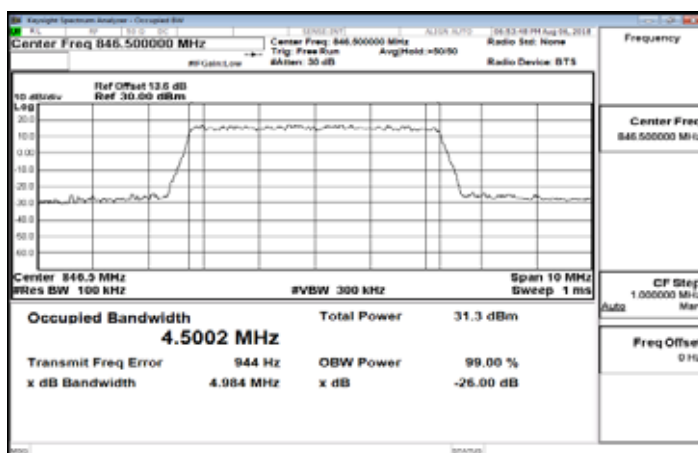
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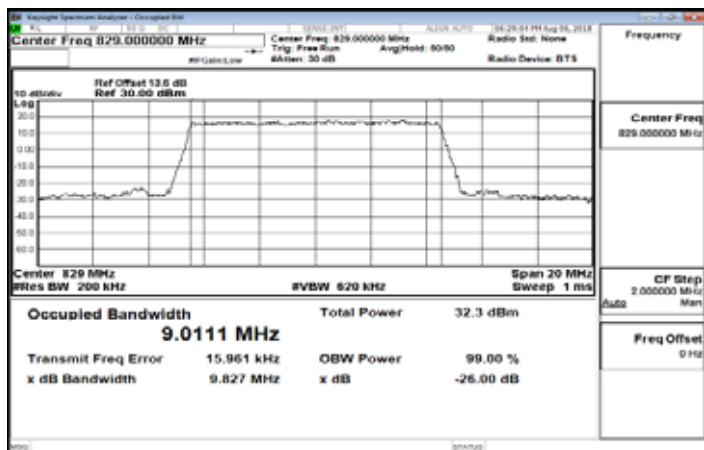
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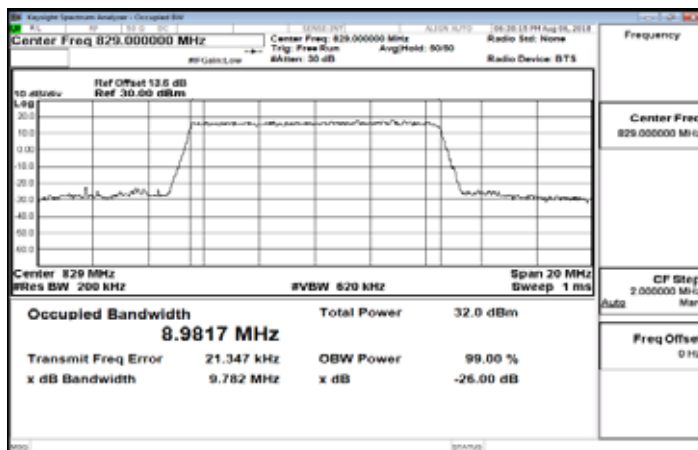
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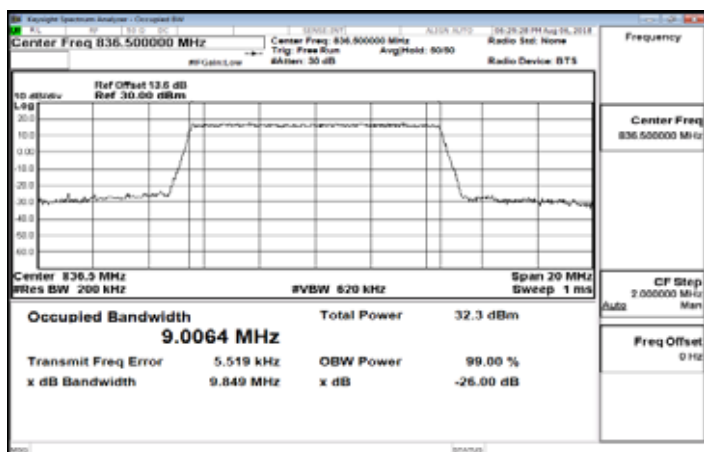
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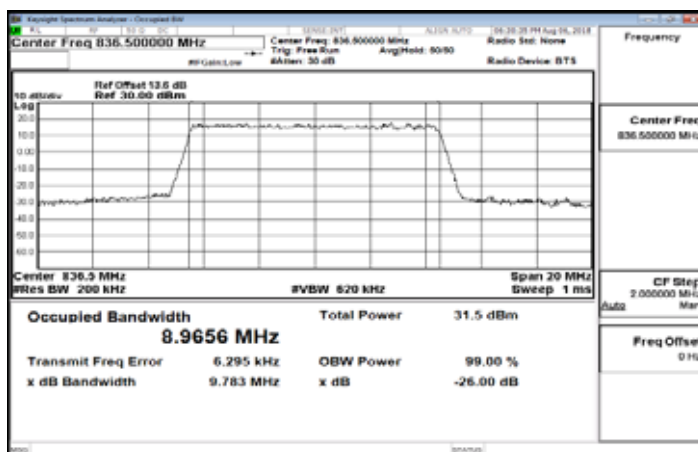
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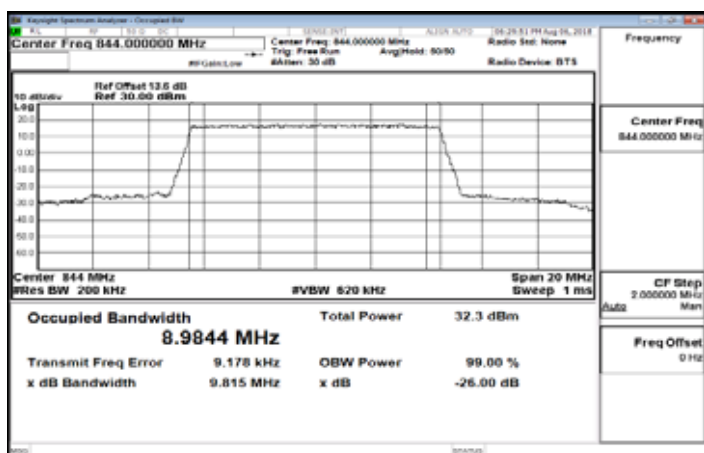
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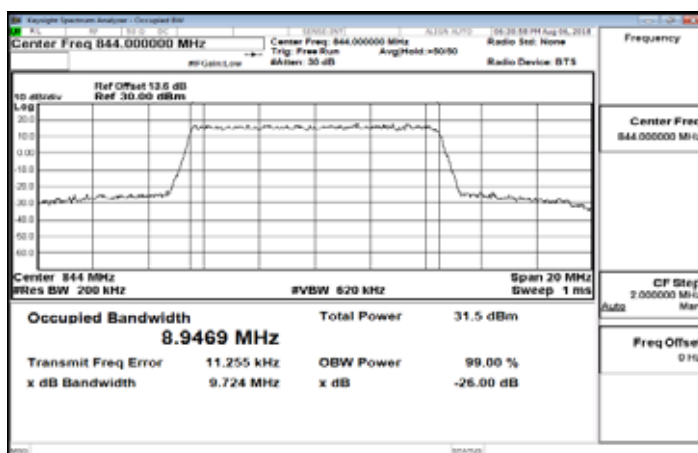
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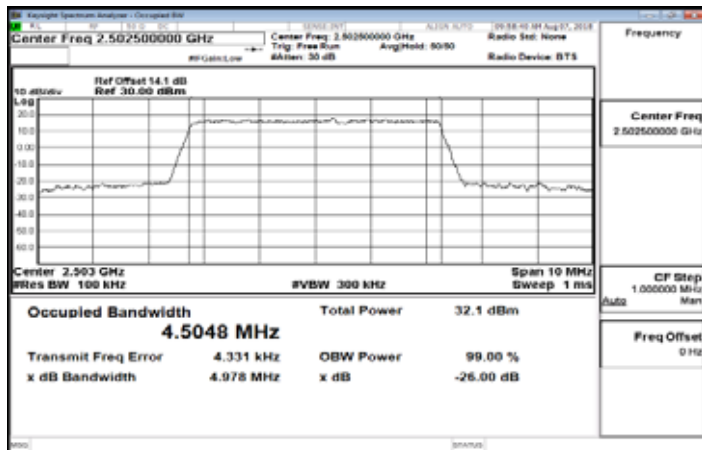
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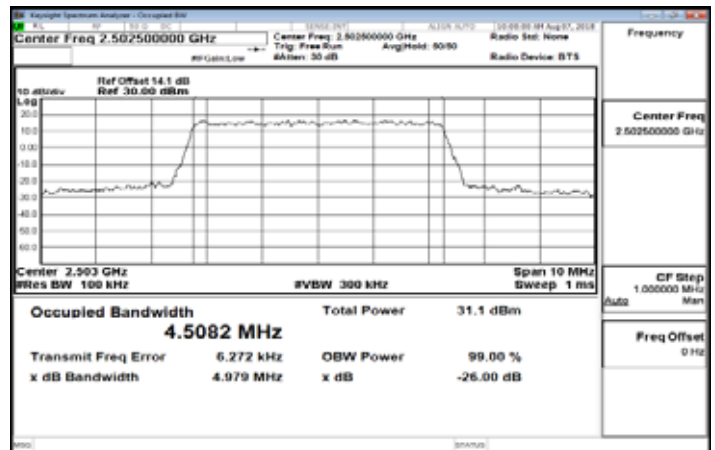
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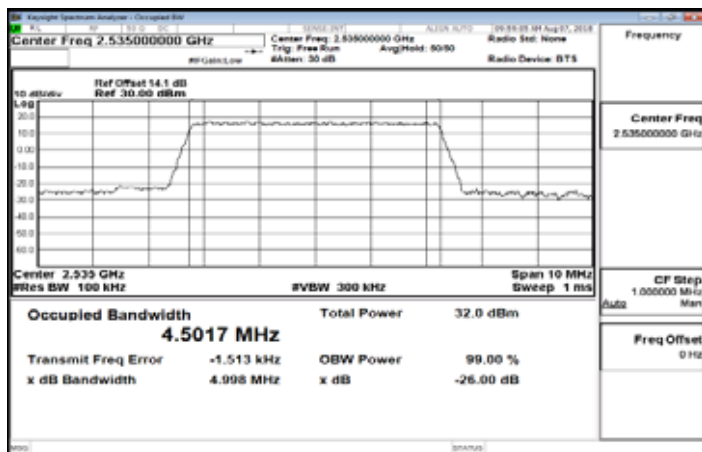
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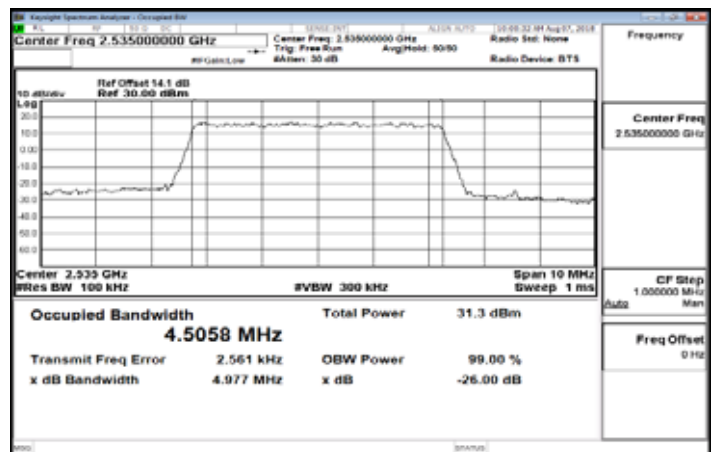
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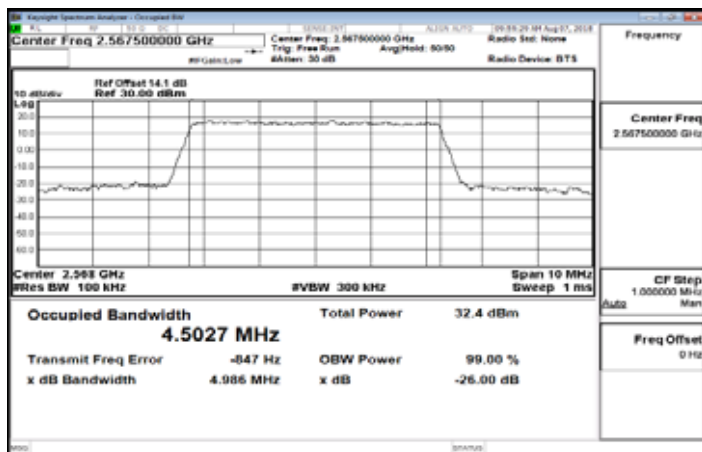
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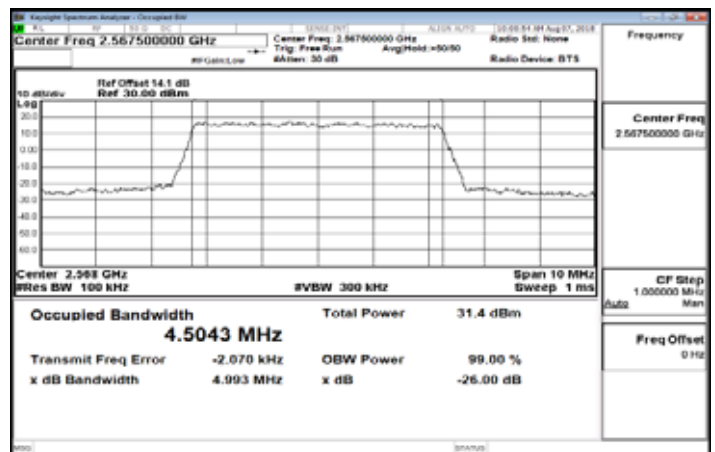
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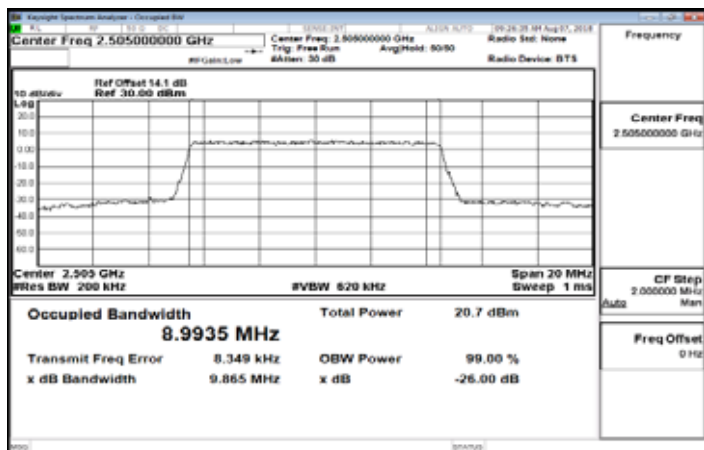
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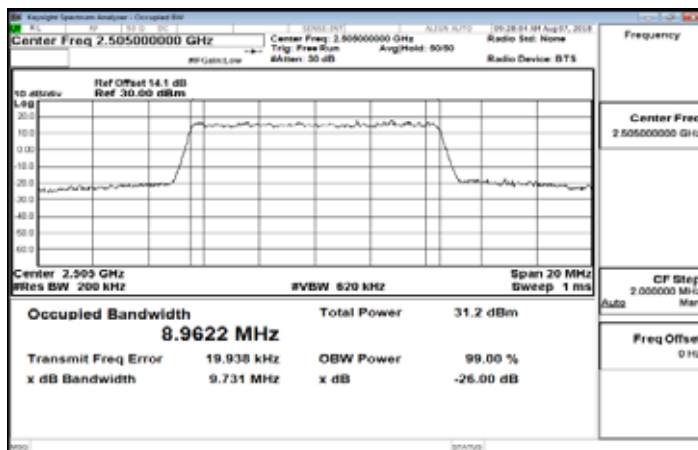
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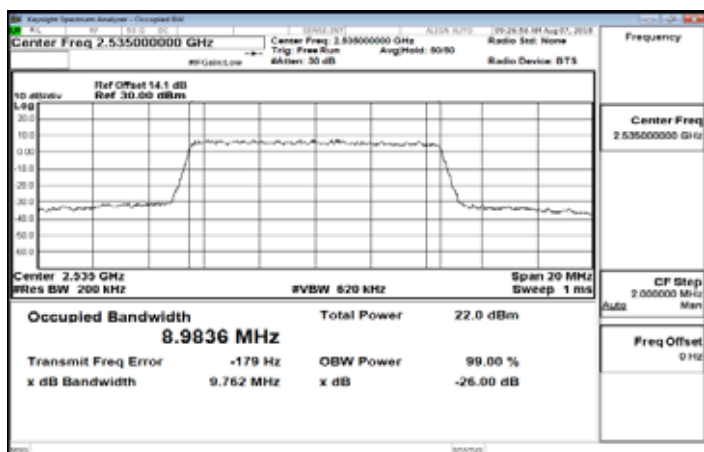
Band7\_10MHz\_QPSK\_50\_0\_LowCH20800-2505



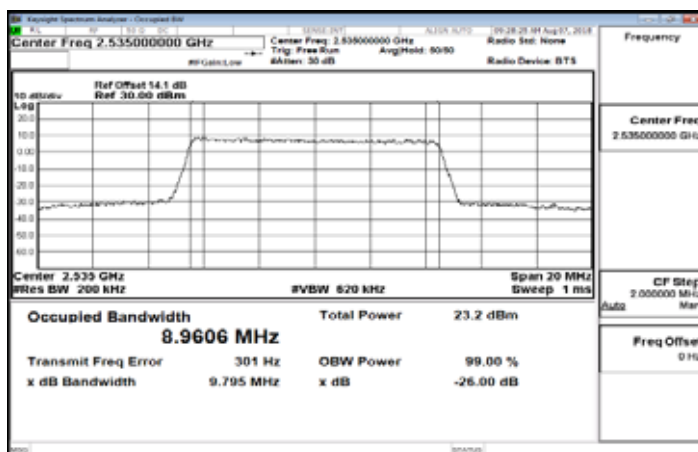
Band7\_10MHz\_16QAM\_50\_0\_LowCH20800-2505



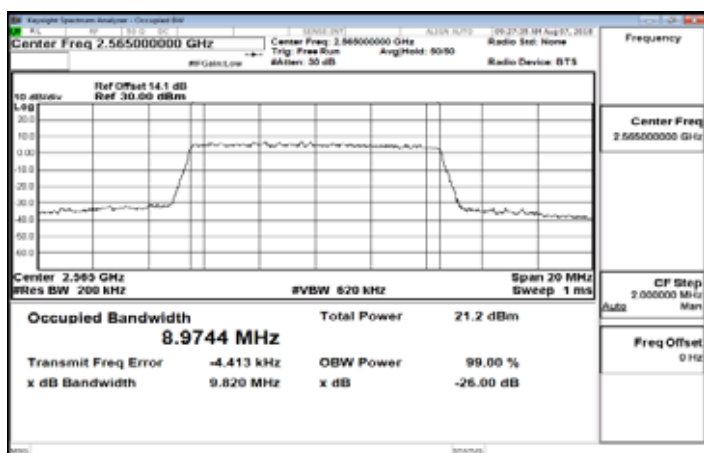
Band7\_10MHz\_QPSK\_50\_0\_MidCH21100-2535



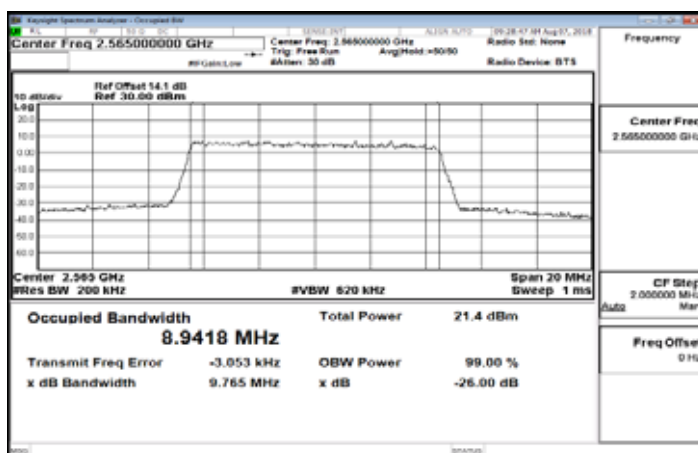
Band7\_10MHz\_16QAM\_50\_0\_MidCH21100-2535



Band7\_10MHz\_QPSK\_50\_0\_HighCH21400-2565



Band7\_10MHz\_16QAM\_50\_0\_HighCH21400-2565



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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