## LTE Band 17

| Conducted Power of LTE Band 17 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 23755 | 23790 | 23825 |
| **5MHz** | QPSK | 1 | 0 | 24.00 | 23.86 | 23.76 | 23.77 |
| | | | 13 | 24.00 | 23.81 | 23.73 | 23.73 |
| | | | 24 | 24.00 | 23.94 | 23.72 | 23.79 |
| | | 12 | 0 | 23.00 | 22.69 | 22.68 | 22.70 |
| | | | 6 | 23.00 | 22.66 | 22.68 | 22.66 |
| | | | 13 | 23.00 | 22.67 | 22.71 | 22.55 |
| | | 25 | 0 | 23.00 | 22.70 | 22.72 | 22.65 |
| | 16QAM | 1 | 0 | 23.50 | 22.56 | 23.04 | 22.82 |
| | | | 13 | 23.00 | 22.52 | 22.98 | 22.73 |
| | | | 24 | 23.00 | 22.63 | 22.99 | 22.80 |
| | | 12 | 0 | 22.00 | 21.68 | 21.72 | 21.66 |
| | | | 6 | 22.00 | 21.68 | 21.70 | 21.62 |
| | | | 13 | 22.00 | 21.67 | 21.73 | 21.55 |
| | | 25 | 0 | 22.00 | 21.71 | 21.71 | 21.65 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 23780 | 23790 | 23800 |
| **10MHz** | QPSK | 1 | 0 | 24.00 | 23.70 | 23.73 | 23.68 |
| | | | 25 | 24.00 | 23.74 | 23.68 | 23.71 |
| | | | 49 | 24.00 | **23.79** | 23.68 | 23.76 |
| | | 25 | 0 | 23.00 | 22.73 | 22.70 | 22.70 |
| | | | 13 | 23.00 | 22.70 | 22.67 | 22.69 |
| | | | 25 | 23.00 | **22.77** | 22.70 | 22.65 |
| | | 50 | 0 | 23.00 | 22.78 | 22.74 | 22.71 |
| | 16QAM | 1 | 0 | 23.50 | 23.24 | 22.97 | 22.71 |
| | | | 25 | 23.50 | 23.27 | 22.87 | 22.75 |
| | | | 49 | 23.50 | 23.24 | 22.90 | 22.80 |
| | | 25 | 0 | 22.00 | 21.75 | 21.73 | 21.78 |
| | | | 13 | 22.00 | 21.77 | 21.72 | 21.76 |
| | | | 25 | 22.00 | 21.83 | 21.72 | 21.73 |
| | | 50 | 0 | 22.00 | 21.76 | 21.72 | 21.69 |


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## LTE Band 25

| Conducted Power of LTE Band 25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26047 | 26365 | 26683 |
| **1.4MHz** | QPSK | 1 | 0 | 24.50 | 24.09 | 24.21 | 24.08 |
| | | | 2 | 24.50 | 24.05 | 24.17 | 24.09 |
| | | | 5 | 24.50 | 24.09 | 24.21 | 24.07 |
| | | 3 | 0 | 24.50 | 24.24 | 24.30 | 24.23 |
| | | | 2 | 24.50 | 24.23 | 24.27 | 24.27 |
| | | | 3 | 24.50 | 24.23 | 24.25 | 24.25 |
| | | 6 | 0 | 23.50 | 23.33 | 23.33 | 23.15 |
| | 16QAM | 1 | 0 | 24.00 | 23.39 | 23.50 | 23.21 |
| | | | 2 | 23.50 | 23.38 | 23.49 | 23.17 |
| | | | 5 | 23.50 | 23.39 | 23.49 | 23.22 |
| | | 3 | 0 | 24.00 | 23.52 | 23.25 | 23.18 |
| | | | 2 | 24.00 | 23.55 | 23.22 | 23.16 |
| | | | 3 | 24.00 | 23.56 | 23.21 | 23.18 |
| | | 6 | 0 | 22.50 | 22.34 | 22.49 | 22.24 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26055 | 26365 | 26675 |
| **3MHz** | QPSK | 1 | 0 | 24.50 | 24.34 | 24.26 | 24.15 |
| | | | 7 | 24.50 | 24.26 | 24.22 | 24.13 |
| | | | 14 | 24.50 | 24.32 | 24.27 | 24.18 |
| | | 8 | 0 | 23.50 | 23.34 | 23.35 | 23.32 |
| | | | 4 | 23.50 | 23.33 | 23.30 | 23.15 |
| | | | 7 | 23.50 | 23.33 | 23.29 | 23.13 |
| | | 15 | 0 | 23.50 | 23.38 | 23.31 | 23.36 |
| | 16QAM | 1 | 0 | 24.00 | 23.84 | 23.55 | 23.42 |
| | | | 7 | 24.00 | 23.81 | 23.48 | 23.28 |
| | | | 14 | 24.00 | 23.82 | 23.54 | 23.31 |
| | | 8 | 0 | 23.00 | 22.60 | 22.45 | 22.44 |
| | | | 4 | 23.00 | 22.55 | 22.42 | 22.42 |
| | | | 7 | 23.00 | 22.55 | 22.42 | 22.40 |
| | | 15 | 0 | 22.50 | 22.45 | 22.42 | 22.41 |


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| Conducted Power of LTE Band 25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26065 | 26365 | 26665 |
| **5MHz** | QPSK | 1 | 0 | 25.00 | 24.69 | 24.46 | 24.47 |
| | | | 13 | 24.50 | 24.44 | 24.26 | 24.21 |
| | | | 24 | 25.00 | 24.72 | 24.54 | 24.46 |
| | | 12 | 0 | 23.50 | 23.38 | 23.40 | 23.37 |
| | | | 6 | 23.50 | 23.35 | 23.31 | 23.33 |
| | | | 13 | 23.50 | 23.40 | 23.34 | 23.13 |
| | | 25 | 0 | 23.50 | 23.41 | 23.36 | 23.28 |
| | 16QAM | 1 | 0 | 24.00 | 23.32 | 23.86 | 23.52 |
| | | | 13 | 24.00 | 23.30 | 23.51 | 23.27 |
| | | | 24 | 24.00 | 23.38 | 23.83 | 23.52 |
| | | 12 | 0 | 23.00 | 22.42 | 22.54 | 22.39 |
| | | | 6 | 22.50 | 22.40 | 22.49 | 22.37 |
| | | | 13 | 22.50 | 22.43 | 22.49 | 22.29 |
| | | 25 | 0 | 23.00 | 22.46 | 22.50 | 22.35 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26090 | 26365 | 26640 |
| **10MHz** | QPSK | 1 | 0 | 24.50 | 24.43 | 24.44 | 24.35 |
| | | | 25 | 24.50 | 24.31 | 24.27 | 24.22 |
| | | | 49 | 25.00 | 24.50 | 24.42 | 24.21 |
| | | 25 | 0 | 23.50 | 23.38 | 23.35 | 23.37 |
| | | | 13 | 23.50 | 23.43 | 23.33 | 23.40 |
| | | | 25 | 23.50 | 23.45 | 23.36 | 23.36 |
| | | 50 | 0 | 23.50 | 23.47 | 23.40 | 23.37 |
| | 16QAM | 1 | 0 | 24.00 | 23.86 | 23.64 | 23.41 |
| | | | 25 | 24.00 | 23.85 | 23.49 | 23.26 |
| | | | 49 | 24.00 | 23.83 | 23.78 | 23.41 |
| | | 25 | 0 | 23.00 | 22.46 | 22.54 | 22.48 |
| | | | 13 | 23.00 | 22.49 | 22.53 | 22.48 |
| | | | 25 | 23.00 | 22.53 | 22.55 | 22.44 |
| | | 50 | 0 | 23.00 | 22.47 | 22.54 | 22.39 |

| Conducted Power of LTE Band 25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26115 | 26365 | 26615 |
| **15MHz** | QPSK | 1 | 0 | 24.50 | 24.19 | 24.24 | 24.12 |
| | | | 38 | 24.50 | 24.32 | 24.29 | 24.16 |
| | | | 74 | 24.50 | 24.21 | 24.19 | 24.11 |
| | | 36 | 0 | 23.50 | 23.30 | 23.32 | 23.40 |
| | | | 18 | 23.50 | 23.39 | 23.28 | 23.35 |
| | | | 39 | 23.50 | 23.39 | 23.30 | 23.31 |
| | | 75 | 0 | 23.50 | 23.38 | 23.32 | 23.35 |
| | 16QAM | 1 | 0 | 24.00 | 23.80 | 23.47 | 23.54 |
| | | | 38 | 24.00 | 23.87 | 23.50 | 23.67 |
| | | | 74 | 24.00 | 23.76 | 23.46 | 23.39 |
| | | 36 | 0 | 23.00 | 22.37 | 22.53 | 22.41 |
| | | | 18 | 22.50 | 22.41 | 22.46 | 22.37 |
| | | | 39 | 22.50 | 22.42 | 22.47 | 22.35 |
| | | 75 | 0 | 22.50 | 22.41 | 22.48 | 22.38 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26140 | 26365 | 26590 |
| **20MHz** | QPSK | 1 | 0 | 24.50 | 24.14 | 24.13 | 24.19 |
| | | | 50 | 24.50 | 24.16 | **24.29** | 24.20 |
| | | | 99 | 24.50 | 24.10 | 24.18 | 24.14 |
| | | 50 | 0 | 23.50 | 23.38 | 23.40 | 23.44 |
| | | | 25 | 23.50 | 23.43 | 23.39 | 23.44 |
| | | | 50 | 23.50 | 23.43 | **23.42** | 23.44 |
| | | 100 | 0 | 23.50 | 23.37 | 23.37 | 23.49 |
| | 16QAM | 1 | 0 | 24.00 | 23.54 | 23.68 | 23.89 |
| | | | 50 | 24.00 | 23.57 | 23.51 | 23.97 |
| | | | 99 | 24.00 | 23.38 | 23.59 | 23.78 |
| | | 50 | 0 | 23.00 | 22.33 | 22.54 | 22.58 |
| | | | 25 | 23.00 | 22.43 | 22.51 | 22.44 |
| | | | 50 | 23.00 | 22.41 | 22.53 | 22.43 |
| | | 100 | 0 | 23.00 | 22.37 | 22.51 | 22.51 |

## LTE Band 26

| Conducted Power of LTE Band 26 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26697 | 26740 | 26783 |
| **1.4MHz** | QPSK | 1 | 0 | 24.00 | 23.52 | 23.60 | 23.59 |
| | | | 2 | 24.00 | 23.54 | 23.65 | 23.57 |
| | | | 5 | 24.00 | 23.51 | 23.57 | 23.65 |
| | | 3 | 0 | 24.00 | 23.77 | 23.81 | 23.72 |
| | | | 2 | 24.00 | 23.71 | 23.74 | 23.83 |
| | | | 3 | 24.00 | 23.63 | 23.64 | 23.80 |
| | | 6 | 0 | 23.00 | 22.61 | 22.69 | 22.78 |
| | 16QAM | 1 | 0 | 23.00 | 22.69 | 22.75 | 22.86 |
| | | | 2 | 23.00 | 22.83 | 22.90 | 22.86 |
| | | | 5 | 23.00 | 22.74 | 22.78 | 22.92 |
| | | 3 | 0 | 23.00 | 22.57 | 22.69 | 22.92 |
| | | | 2 | 23.00 | 22.86 | 22.64 | 22.68 |
| | | | 3 | 23.00 | 22.71 | 22.89 | 22.66 |
| | | 6 | 0 | 22.00 | 21.72 | 21.65 | 21.77 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26705 | 26740 | 26775 |
| **3MHz** | QPSK | 1 | 0 | 24.00 | 23.83 | 23.59 | 23.72 |
| | | | 7 | 24.00 | 23.60 | 23.85 | 23.56 |
| | | | 14 | 24.00 | 23.53 | 23.72 | 23.85 |
| | | 8 | 0 | 23.00 | 22.65 | 22.77 | 22.74 |
| | | | 4 | 23.00 | 22.67 | 22.69 | 22.75 |
| | | | 7 | 23.00 | 22.73 | 22.71 | 22.70 |
| | | 15 | 0 | 23.00 | 22.69 | 22.77 | 22.75 |
| | 16QAM | 1 | 0 | 23.50 | 22.76 | 23.20 | 22.96 |
| | | | 7 | 23.50 | 22.87 | 22.78 | 23.22 |
| | | | 14 | 23.50 | 23.12 | 22.88 | 22.88 |
| | | 8 | 0 | 22.00 | 21.79 | 21.97 | 21.75 |
| | | | 4 | 22.00 | 21.70 | 21.83 | 21.96 |
| | | | 7 | 22.00 | 21.92 | 21.74 | 21.83 |
| | | 15 | 0 | 22.00 | 21.78 | 21.81 | 21.76 |


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| Conducted Power of LTE Band 26 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26715 | 26740 | 26765 |
| **5MHz** | QPSK | 1 | 0 | 24.00 | 23.92 | 23.63 | 23.85 |
| | | | 13 | 24.00 | 23.75 | 23.96 | 23.69 |
| | | | 24 | 24.50 | 23.70 | 23.84 | 24.03 |
| | | 12 | 0 | 23.00 | 22.69 | 22.76 | 22.80 |
| | | | 6 | 23.00 | 22.73 | 22.70 | 22.76 |
| | | | 13 | 23.00 | 22.71 | 22.72 | 22.70 |
| | | 25 | 0 | 23.00 | 22.74 | 22.75 | 22.78 |
| | 16QAM | 1 | 0 | 23.00 | 22.80 | 22.60 | 22.96 |
| | | | 13 | 23.00 | 22.90 | 22.84 | 22.66 |
| | | | 24 | 23.00 | 22.68 | 23.00 | 22.94 |
| | | 12 | 0 | 22.00 | 21.75 | 21.79 | 21.82 |
| | | | 6 | 22.00 | 21.78 | 21.76 | 21.79 |
| | | | 13 | 22.00 | 21.76 | 21.74 | 21.75 |
| | | 25 | 0 | 22.00 | 21.79 | 21.83 | 21.81 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26840 | 26915 | 26990 |
| **10MHz** | QPSK | 1 | 0 | 24.00 | 23.98 | 23.71 | 23.60 |
| | | | 25 | 24.00 | 23.90 | 23.63 | 23.63 |
| | | | 49 | 24.00 | 23.80 | 23.73 | 23.61 |
| | | 25 | 0 | 23.00 | 22.83 | 22.74 | 22.73 |
| | | | 13 | 23.00 | 22.82 | 22.71 | 22.66 |
| | | | 25 | 23.00 | 22.81 | 22.64 | 22.58 |
| | | 50 | 0 | 23.00 | 22.82 | 22.70 | 22.66 |
| | 16QAM | 1 | 0 | 23.50 | 23.35 | 22.91 | 22.66 |
| | | | 25 | 23.50 | 23.38 | 23.14 | 22.69 |
| | | | 49 | 23.50 | 23.19 | 22.68 | 22.69 |
| | | 25 | 0 | 22.00 | 21.89 | 21.79 | 21.82 |
| | | | 13 | 22.00 | 21.88 | 21.77 | 21.75 |
| | | | 25 | 22.00 | 21.89 | 21.73 | 21.69 |
| | | 50 | 0 | 22.00 | 21.83 | 21.69 | 21.67 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 26765 | 26865 | 26965 |
| **15MHz** | QPSK | 1 | 0 | 24.00 | 23.85 | 23.72 | 23.59 |
| | | | 38 | 24.00 | 23.83 | 23.73 | 23.55 |
| | | | 74 | 24.00 | **23.87** | 23.58 | 23.48 |
| | | 36 | 0 | 23.00 | 22.70 | 22.69 | 22.70 |
| | | | 18 | 23.00 | **22.73** | 22.70 | 22.68 |
| | | | 39 | 23.00 | 22.73 | 22.69 | 22.58 |
| | | 75 | 0 | 23.00 | 22.74 | 22.67 | 22.65 |
| | 16QAM | 1 | 0 | 23.50 | 23.16 | 22.99 | 22.99 |
| | | | 38 | 23.50 | 23.24 | 22.93 | 22.96 |
| | | | 74 | 23.50 | 23.23 | 22.82 | 22.90 |
| | | 36 | 0 | 22.00 | 21.77 | 21.73 | 21.72 |
| | | | 18 | 22.00 | 21.78 | 21.74 | 21.66 |
| | | | 39 | 22.00 | 21.80 | 21.72 | 21.58 |
| | | 75 | 0 | 22.00 | 21.77 | 21.73 | 21.64 |

## LTE Band 38

| Conducted Power of LTE Band 38 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 37775 | 38000 | 38225 |
| **5MHz** | QPSK | 1 | 0 | 24.00 | 22.79 | 23.38 | 23.69 |
| | | | 13 | 24.00 | 22.88 | 23.41 | 23.78 |
| | | | 24 | 24.00 | 22.88 | 23.46 | 23.71 |
| | | 12 | 0 | 23.00 | 21.82 | 22.30 | 22.75 |
| | | | 6 | 23.00 | 21.82 | 22.28 | 22.73 |
| | | | 13 | 23.00 | 21.82 | 22.35 | 22.75 |
| | | 25 | 0 | 23.00 | 21.84 | 22.32 | 22.78 |
| | 16QAM | 1 | 0 | 23.00 | 21.86 | 22.31 | 22.75 |
| | | | 13 | 23.00 | 22.11 | 22.36 | 22.83 |
| | | | 24 | 23.00 | 21.99 | 22.63 | 22.47 |
| | | 12 | 0 | 22.00 | 20.78 | 21.34 | 21.80 |
| | | | 6 | 22.00 | 20.82 | 21.20 | 21.80 |
| | | | 13 | 22.00 | 20.88 | 21.26 | 21.75 |
| | | 25 | 0 | 22.00 | 20.86 | 21.37 | 21.78 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 37800 | 38000 | 38200 |
| **10MHz** | QPSK | 1 | 0 | 24.00 | 22.88 | 23.32 | 23.64 |
| | | | 25 | 24.00 | 23.08 | 23.54 | 23.80 |
| | | | 49 | 24.00 | 23.07 | 23.45 | 23.83 |
| | | 25 | 0 | 23.00 | 21.95 | 22.36 | 22.74 |
| | | | 13 | 23.00 | 21.96 | 22.40 | 22.81 |
| | | | 25 | 23.00 | 21.98 | 22.42 | 22.84 |
| | | 50 | 0 | 23.00 | 22.00 | 22.42 | 22.83 |
| | 16QAM | 1 | 0 | 23.00 | 21.94 | 22.20 | 22.63 |
| | | | 25 | 23.50 | 21.83 | 22.34 | 23.08 |
| | | | 49 | 23.50 | 22.08 | 22.32 | 23.09 |
| | | 25 | 0 | 22.00 | 20.97 | 21.40 | 21.76 |
| | | | 13 | 22.00 | 21.02 | 21.45 | 21.84 |
| | | | 25 | 22.00 | 21.06 | 21.47 | 21.82 |
| | | 50 | 0 | 22.00 | 20.97 | 21.37 | 21.76 |


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| Conducted Power of LTE Band 38 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 37825 | 38000 | 38175 |
| **15MHz** | QPSK | 1 | 0 | 24.00 | 22.97 | 23.31 | 23.69 |
| | | | 38 | 24.00 | 23.10 | 23.53 | 23.69 |
| | | | 74 | 24.00 | 23.15 | 23.37 | 23.65 |
| | | 36 | 0 | 23.00 | 21.96 | 22.31 | 22.63 |
| | | | 18 | 23.00 | 22.06 | 22.39 | 22.72 |
| | | | 39 | 23.00 | 22.07 | 22.43 | 22.77 |
| | | 75 | 0 | 23.00 | 22.03 | 22.35 | 22.73 |
| | 16QAM | 1 | 0 | 23.00 | 21.96 | 22.17 | 22.62 |
| | | | 38 | 23.50 | 21.90 | 22.27 | 23.07 |
| | | | 74 | 23.00 | 22.19 | 22.36 | 22.61 |
| | | 36 | 0 | 22.00 | 20.98 | 21.27 | 21.66 |
| | | | 18 | 22.00 | 20.99 | 21.39 | 21.75 |
| | | | 39 | 22.00 | 21.07 | 21.46 | 21.80 |
| | | 75 | 0 | 22.00 | 20.99 | 21.36 | 21.77 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 37850 | 38000 | 38150 |
| **20MHz** | QPSK | 1 | 0 | 23.50 | 22.92 | 23.25 | 23.44 |
| | | | 50 | 24.00 | 23.26 | 23.56 | **23.76** |
| | | | 99 | 24.00 | 23.29 | 23.59 | 23.73 |
| | | 50 | 0 | 23.00 | 22.09 | 22.42 | 22.66 |
| | | | 25 | 23.00 | 22.19 | 22.44 | 22.74 |
| | | | 50 | 23.00 | 22.21 | 22.55 | **22.86** |
| | | 100 | 0 | 23.00 | 22.16 | 22.46 | 22.75 |
| | 16QAM | 1 | 0 | 22.50 | 21.95 | 22.05 | 22.07 |
| | | | 50 | 23.00 | 22.17 | 22.67 | 22.82 |
| | | | 99 | 23.00 | 22.28 | 22.61 | 22.43 |
| | | 50 | 0 | 22.00 | 21.03 | 21.38 | 21.62 |
| | | | 25 | 22.00 | 21.16 | 21.50 | 21.71 |
| | | | 50 | 22.00 | 21.21 | 21.49 | 21.84 |
| | | 100 | 0 | 22.00 | 21.11 | 21.41 | 21.72 |

## LTE Band 41

| Conducted Power of LTE Band 41 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 39675 | 40620 | 41565 |
| **5MHz** | QPSK | 1 | 0 | 24.00 | 22.08 | 23.17 | 23.54 |
| | | | 13 | 23.50 | 22.05 | 23.21 | 23.48 |
| | | | 24 | 23.50 | 22.10 | 23.25 | 23.31 |
| | | 12 | 0 | 22.50 | 20.96 | 22.16 | 22.33 |
| | | | 6 | 22.50 | 20.98 | 22.16 | 22.28 |
| | | | 13 | 22.50 | 20.99 | 22.18 | 22.25 |
| | | 25 | 0 | 22.50 | 20.96 | 22.21 | 22.34 |
| | 16QAM | 1 | 0 | 22.50 | 21.00 | 22.13 | 22.36 |
| | | | 13 | 22.50 | 20.96 | 22.17 | 22.37 |
| | | | 24 | 23.00 | 20.98 | 22.26 | 22.52 |
| | | 12 | 0 | 21.50 | 19.91 | 21.21 | 21.31 |
| | | | 6 | 21.50 | 19.93 | 21.22 | 21.32 |
| | | | 13 | 21.50 | 19.90 | 21.20 | 21.26 |
| | | 25 | 0 | 21.50 | 19.96 | 21.28 | 21.26 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 39700 | 40620 | 41540 |
| **10MHz** | QPSK | 1 | 0 | 23.50 | 22.07 | 23.12 | 23.37 |
| | | | 25 | 23.50 | 22.16 | 23.22 | 23.41 |
| | | | 49 | 23.50 | 22.02 | 23.30 | 23.19 |
| | | 25 | 0 | 22.50 | 20.93 | 22.15 | 22.45 |
| | | | 13 | 22.50 | 20.99 | 22.23 | 22.43 |
| | | | 25 | 22.50 | 21.01 | 22.25 | 22.37 |
| | | 50 | 0 | 22.50 | 20.99 | 22.27 | 22.37 |
| | 16QAM | 1 | 0 | 22.50 | 21.05 | 22.01 | 22.41 |
| | | | 25 | 22.50 | 21.07 | 22.02 | 22.31 |
| | | | 49 | 22.50 | 20.99 | 22.18 | 22.26 |
| | | 25 | 0 | 22.00 | 19.95 | 21.16 | 21.51 |
| | | | 13 | 21.50 | 20.01 | 21.24 | 21.45 |
| | | | 25 | 21.50 | 20.03 | 21.28 | 21.34 |
| | | 50 | 0 | 21.50 | 19.96 | 21.21 | 21.48 |

| Conducted Power of LTE Band 41 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 39725 | 40620 | 41515 |
| **15MHz** | QPSK | 1 | 0 | 23.50 | 22.00 | 23.02 | 23.35 |
| | | | 38 | 24.00 | 22.03 | 23.20 | 23.51 |
| | | | 74 | 23.50 | 21.97 | 23.21 | 23.13 |
| | | 36 | 0 | 22.50 | 20.90 | 22.06 | 22.46 |
| | | | 18 | 22.50 | 20.93 | 22.17 | 22.36 |
| | | | 39 | 22.50 | 20.92 | 22.23 | 22.31 |
| | | 75 | 0 | 22.50 | 20.91 | 22.17 | 22.38 |
| | 16QAM | 1 | 0 | 23.00 | 20.82 | 21.91 | 22.73 |
| | | | 38 | 22.50 | 21.01 | 22.02 | 22.33 |
| | | | 74 | 22.50 | 21.04 | 22.17 | 22.00 |
| | | 36 | 0 | 22.00 | 19.91 | 21.05 | 21.52 |
| | | | 18 | 21.50 | 19.94 | 21.13 | 21.48 |
| | | | 39 | 21.50 | 19.90 | 21.23 | 21.30 |
| | | 75 | 0 | 21.50 | 19.93 | 21.16 | 21.38 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 39750 | 40620 | 41490 |
| **20MHz** | QPSK | 1 | 0 | 23.50 | 22.00 | 23.02 | 23.37 |
| | | | 50 | 23.50 | 22.07 | 23.17 | **23.38** |
| | | | 99 | 23.50 | 21.94 | 23.24 | 23.13 |
| | | 50 | 0 | 23.00 | 20.92 | 22.12 | **22.57** |
| | | | 25 | 23.00 | 21.02 | 22.27 | 22.50 |
| | | | 50 | 22.50 | 21.00 | 22.29 | 22.32 |
| | | 100 | 0 | 22.50 | 20.96 | 22.23 | 22.43 |
| | 16QAM | 1 | 0 | 22.50 | 20.86 | 21.91 | 22.17 |
| | | | 50 | 23.00 | 20.97 | 22.00 | 22.63 |
| | | | 99 | 22.50 | 20.84 | 22.41 | 22.38 |
| | | 50 | 0 | 21.50 | 19.87 | 21.17 | 20.85 |
| | | | 25 | 21.50 | 19.96 | 21.22 | 20.83 |
| | | | 50 | 21.50 | 19.94 | 21.33 | 20.67 |
| | | 100 | 0 | 21.50 | 19.91 | 21.18 | 20.80 |

## LTE Band 66

| Conducted Power of LTE Band 66 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel 131979 | Channel 132322 | Channel 132665 |
| **1.4MHz** | QPSK | 1 | 0 | 23.00 | 22.92 | 22.95 | 22.92 |
| | | | 2 | 23.00 | 22.93 | 22.96 | 22.93 |
| | | | 5 | 23.00 | 22.89 | 22.92 | 22.94 |
| | | 3 | 0 | 23.00 | 23.00 | 22.88 | 22.97 |
| | | | 2 | 23.50 | 22.99 | 22.88 | 23.02 |
| | | | 3 | 23.00 | 22.99 | 22.86 | 23.00 |
| | | 6 | 0 | 22.00 | 21.98 | 21.81 | 21.94 |
| | 16QAM | 1 | 0 | 22.50 | 22.04 | 21.88 | 22.20 |
| | | | 2 | 22.50 | 22.03 | 21.86 | 22.25 |
| | | | 5 | 22.50 | 22.02 | 21.87 | 22.22 |
| | | 3 | 0 | 22.50 | 22.10 | 21.72 | 22.02 |
| | | | 2 | 22.50 | 22.09 | 21.72 | 22.01 |
| | | | 3 | 22.50 | 22.09 | 21.73 | 22.05 |
| | | 6 | 0 | 21.50 | 21.07 | 20.85 | 21.01 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel 131987 | Channel 132322 | Channel 132657 |
| **3MHz** | QPSK | 1 | 0 | 23.00 | 22.96 | 22.98 | 22.99 |
| | | | 7 | 23.00 | 22.94 | 22.97 | 22.96 |
| | | | 14 | 23.00 | 22.95 | 22.98 | 22.96 |
| | | 8 | 0 | 22.00 | 21.99 | 21.84 | 21.97 |
| | | | 4 | 22.00 | 21.98 | 21.84 | 21.92 |
| | | | 7 | 22.00 | 21.98 | 21.81 | 21.93 |
| | | 15 | 0 | 22.50 | 22.01 | 21.87 | 21.98 |
| | 16QAM | 1 | 0 | 22.50 | 22.03 | 21.93 | 22.28 |
| | | | 7 | 22.50 | 22.03 | 21.88 | 22.27 |
| | | | 14 | 22.50 | 22.01 | 21.87 | 22.32 |
| | | 8 | 0 | 21.50 | 20.98 | 20.79 | 21.02 |
| | | | 4 | 21.00 | 20.95 | 20.79 | 20.99 |
| | | | 7 | 21.00 | 20.98 | 20.78 | 20.97 |
| | | 15 | 0 | 21.00 | 20.95 | 20.89 | 20.98 |


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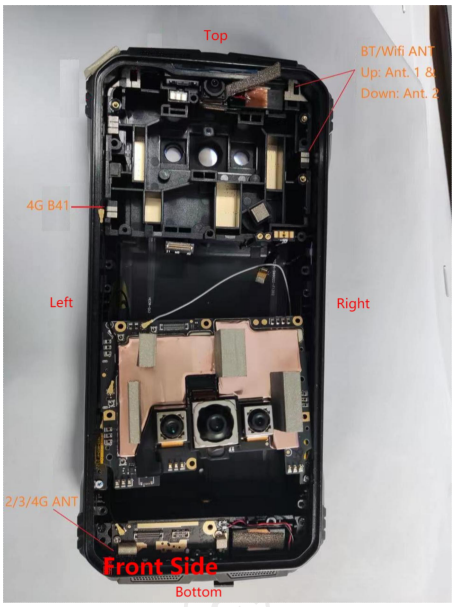
| Conducted Power of LTE Band 66 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 131997 | 132322 | 132647 |
| **5MHz** | QPSK | 1 | 0 | 23.50 | 23.20 | 22.96 | 23.08 |
| | | | 13 | 23.00 | 23.11 | 22.86 | 22.98 |
| | | | 24 | 23.50 | 23.14 | 22.91 | 23.07 |
| | | 12 | 0 | 22.50 | 22.04 | 21.87 | 22.04 |
| | | | 6 | 22.50 | 22.04 | 21.86 | 21.95 |
| | | | 13 | 22.50 | 22.01 | 21.85 | 21.86 |
| | | 25 | 0 | 22.50 | 22.03 | 21.88 | 21.97 |
| | 16QAM | 1 | 0 | 22.50 | 22.19 | 22.38 | 21.99 |
| | | | 13 | 22.50 | 22.10 | 22.23 | 21.88 |
| | | | 24 | 22.50 | 22.17 | 22.28 | 21.98 |
| | | 12 | 0 | 21.50 | 21.03 | 20.84 | 21.14 |
| | | | 6 | 21.50 | 21.04 | 20.85 | 21.00 |
| | | | 13 | 21.00 | 21.00 | 20.85 | 20.90 |
| | | 25 | 0 | 21.50 | 21.00 | 20.87 | 21.06 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 132022 | 132322 | 132622 |
| **10MHz** | QPSK | 1 | 0 | 23.50 | 23.04 | 23.01 | 22.99 |
| | | | 25 | 23.50 | 23.07 | 23.03 | 23.02 |
| | | | 49 | 23.50 | 23.04 | 23.02 | 23.04 |
| | | 25 | 0 | 22.00 | 21.99 | 21.81 | 21.94 |
| | | | 13 | 22.50 | 22.01 | 21.87 | 22.01 |
| | | | 25 | 22.50 | 22.02 | 21.93 | 21.89 |
| | | 50 | 0 | 22.50 | 22.03 | 21.90 | 21.95 |
| | 16QAM | 1 | 0 | 22.50 | 22.07 | 21.95 | 22.37 |
| | | | 25 | 22.50 | 22.02 | 21.92 | 22.39 |
| | | | 49 | 22.50 | 22.05 | 21.92 | 22.39 |
| | | 25 | 0 | 21.50 | 21.05 | 20.84 | 20.97 |
| | | | 13 | 21.50 | 21.04 | 20.93 | 21.06 |
| | | | 25 | 21.50 | 21.06 | 20.97 | 20.93 |
| | | 50 | 0 | 21.00 | 20.99 | 20.87 | 20.91 |

| Conducted Power of LTE Band 66 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 132047 | 132322 | 132597 |
| **15MHz** | QPSK | 1 | 0 | 23.00 | 22.99 | 22.98 | 22.89 |
| | | | 38 | 23.50 | 23.02 | 23.01 | 23.01 |
| | | | 74 | 23.00 | 22.87 | 22.90 | 22.97 |
| | | 36 | 0 | 22.00 | 21.98 | 21.79 | 21.82 |
| | | | 18 | 22.00 | 21.97 | 21.87 | 21.93 |
| | | | 39 | 22.00 | 21.90 | 21.84 | 21.87 |
| | | 75 | 0 | 22.00 | 21.96 | 21.85 | 21.90 |
| | 16QAM | 1 | 0 | 22.50 | 22.03 | 21.88 | 21.81 |
| | | | 38 | 22.00 | 22.00 | 21.92 | 21.87 |
| | | | 74 | 22.00 | 21.86 | 21.83 | 21.82 |
| | | 36 | 0 | 21.50 | 21.01 | 20.80 | 20.84 |
| | | | 18 | 21.00 | 20.99 | 20.87 | 20.96 |
| | | | 39 | 21.00 | 20.92 | 20.85 | 20.94 |
| | | 75 | 0 | 21.00 | 20.95 | 20.84 | 20.92 |
| **Bandwidth** | Modulation | RB size | RB offset | Maximum Tune-up (dBm) | Channel | Channel | Channel |
| | | | | | 132072 | 132322 | 132572 |
| **20MHz** | QPSK | 1 | 0 | 23.50 | 22.96 | **23.02** | 22.82 |
| | | | 50 | 23.00 | 22.99 | 22.93 | 22.94 |
| | | | 99 | 23.00 | 23.00 | 22.79 | 22.97 |
| | | 50 | 0 | 22.50 | 22.07 | 21.75 | 21.82 |
| | | | 25 | 22.50 | 22.01 | **21.93** | 21.97 |
| | | | 50 | 22.00 | 21.88 | 21.84 | 21.91 |
| | | 100 | 0 | 22.00 | 21.95 | 21.79 | 21.86 |
| | 16QAM | 1 | 0 | 22.50 | 22.46 | 21.92 | 21.92 |
| | | | 50 | 22.50 | 22.39 | 21.85 | 21.93 |
| | | | 99 | 22.50 | 22.43 | 21.76 | 21.99 |
| | | 50 | 0 | 21.50 | 21.04 | 20.71 | 20.78 |
| | | | 25 | 21.00 | 20.97 | 20.90 | 20.92 |
| | | | 50 | 21.00 | 20.85 | 20.81 | 20.89 |
| | | 100 | 0 | 21.00 | 20.96 | 20.78 | 20.84 |

# 9. Exposure Position Consideration

## 9.1. Antenna information




| | |
|---|---|
| WWAN Main Antenna | GSM/UMTS/LTE TX/RX |
| WLAN/BT Antenna | WLAN/BT TX/RX |

Note:
A) Per KDB648474 D04,10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR<1.2W/Kg.
B) According to the KDB941225 D06 Hot Spot SAR v02, When the overall device length and width are ≥ 9cm*5cm, the test distance is 10mm, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.

| Distance of The Antenna to the EUT surface and edge (mm) | | | | | | |
|---|---|---|---|---|---|---|
| Antenna | Front Side (mm) | Back Side (mm) | Left Edge (mm) | Right Edge (mm) | Top Edge (mm) | Bottom Edge (mm) |
| WWAN | <5 | <5 | <5 | 85 | 185 | <5 |
| BT/Wifi ANT 1 | <5 | <5 | 84 | <5 | <5 | 180 |
| Wifi ANT 2 | <5 | <5 | 87 | <5 | 34 | 156 |
| 4G B41 ANT | <5 | <5 | <5 | 87 | 55 | 135 |

## 9.2. Test Position Consideration

| Positions for SAR tests: Hotspot mode | | | | | | |
|---|---|---|---|---|---|---|
| Antenna | Front Side (mm) | Back Side (mm) | Left Edge (mm) | Right Edge (mm) | Top Edge (mm) | Bottom Edge (mm) |
| WWAN | Yes | Yes | Yes | No | No | Yes |
| BT/Wifi ANT 1 | Yes | Yes | No | Yes | Yes | No |
| Wifi ANT 2 | Yes | Yes | No | Yes | No | No |
| 4G B41 ANT | Yes | Yes | Yes | No | No | No |

# 10. SAR Test Results Summary

## 10.1. Head 1g SAR Data

| Band | Mode | Test Position with 0mm | CH. | Freq. (MHz) | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSM850 | GPRS 4slots | Left-Cheek | 190 | 836.6 | 28.57 | 29.00 | 1.050 | 0.110 | 1.104 | **0.121** | 1.60 |
| | | Left-Tilt | 190 | 836.6 | 28.57 | 29.00 | 0.990 | 0.061 | 1.104 | 0.067 | |
| | | Right-Cheek | 190 | 836.6 | 28.57 | 29.00 | -1.820 | 0.071 | 1.104 | 0.078 | |
| | | Right-Tilt | 190 | 836.6 | 28.57 | 29.00 | -3.510 | 0.063 | 1.104 | 0.070 | |
| GSM1900 | GPRS 2slots | Left-Cheek | 512 | 1850.2 | 29.88 | 30.00 | -0.210 | 0.382 | 1.028 | **0.393** | |
| | | Left-Tilt | 512 | 1850.2 | 29.88 | 30.00 | 2.680 | 0.186 | 1.028 | 0.191 | |
| | | Right-Cheek | 512 | 1850.2 | 29.88 | 30.00 | 1.730 | 0.352 | 1.028 | 0.362 | |
| | | Right-Tilt | 512 | 1850.2 | 29.88 | 30.00 | -2.920 | 0.189 | 1.028 | 0.194 | |
| WCDMA Band II | RMC | Left-Cheek | 9262 | 1852.4 | 23.49 | 23.50 | 0.830 | 0.514 | 1.002 | **0.515** | |
| | | Left-Tilt | 9262 | 1852.4 | 23.49 | 23.50 | -1.201 | 0.297 | 1.002 | 0.298 | |
| | | Right-Cheek | 9262 | 1852.4 | 23.49 | 23.50 | 2.663 | 0.455 | 1.002 | 0.456 | |
| | | Right-Tilt | 9262 | 1852.4 | 23.49 | 23.50 | 1.503 | 0.281 | 1.002 | 0.282 | |
| WCDMA Band IV | RMC | Left-Cheek | 1312 | 1712.4 | 22.92 | 23.00 | -0.670 | 0.415 | 1.019 | **0.423** | |
| | | Left-Tilt | 1312 | 1712.4 | 22.92 | 23.00 | -3.570 | 0.188 | 1.019 | 0.192 | |
| | | Right-Cheek | 1312 | 1712.4 | 22.92 | 23.00 | -2.390 | 0.402 | 1.019 | 0.410 | |
| | | Right-Tilt | 1312 | 1712.4 | 22.92 | 23.00 | 4.670 | 0.171 | 1.019 | 0.174 | |
| WCDMA Band V | RMC | Left-Cheek | 4132 | 826.4 | 23.29 | 23.50 | -1.450 | 0.226 | 1.050 | **0.237** | |
| | | Left-Tilt | 4132 | 826.4 | 23.29 | 23.50 | -1.020 | 0.141 | 1.050 | 0.148 | |
| | | Right-Cheek | 4132 | 826.4 | 23.29 | 23.50 | -1.700 | 0.209 | 1.050 | 0.219 | |
| | | Right-Tilt | 4132 | 826.4 | 23.29 | 23.50 | 1.240 | 0.140 | 1.050 | 0.147 | |
| BT | Classical | Left-Cheek | 1 | 2402 | 9.02 | 9.50 | -0.280 | 0.085 | 1.117 | **0.095** | |
| | | Left-Tilt | 1 | 2402 | 9.02 | 9.50 | -1.300 | 0.050 | 1.117 | 0.056 | |
| | | Right-Cheek | 1 | 2402 | 9.02 | 9.50 | 2.730 | 0.082 | 1.117 | 0.092 | |
| | | Right-Tilt | 1 | 2402 | 9.02 | 9.50 | 1.970 | 0.051 | 1.117 | 0.057 | |
| 2.4G -ANT 1 | 802.11b | Left-Cheek | 6 | 2437 | 16.42 | 16.50 | -1.880 | 0.251 | 1.019 | 0.256 | |
| | | Left-Tilt | 6 | 2437 | 16.42 | 16.50 | -3.570 | 0.230 | 1.019 | 0.234 | |
| | | Right-Cheek | 6 | 2437 | 16.42 | 16.50 | -2.390 | 0.299 | 1.019 | 0.305 | |
| | | Right-Tilt | 6 | 2437 | 16.42 | 16.50 | 4.670 | 0.272 | 1.019 | 0.277 | |
| 2.4G -ANT 2 | 802.11b | Left-Cheek | 11 | 2462 | 16.57 | 17.00 | 1.550 | 0.277 | 1.104 | 0.306 | |
| | | Left-Tilt | 11 | 2462 | 16.57 | 17.00 | 0.390 | 0.240 | 1.104 | 0.265 | |
| | | Right-Cheek | 11 | 2462 | 16.57 | 17.00 | 2.670 | 0.312 | 1.104 | **0.344** | |
| | | Right-Tilt | 11 | 2462 | 16.57 | 17.00 | -3.310 | 0.280 | 1.104 | 0.309 | |
| 2.4G -MIMO ANT 1 side | 802.11n | Left-Cheek | 6 | 2437 | 22.31 | 22.50 | -1.205 | 0.123 | 1.045 | 0.129 | |
| | | Left-Tilt | 6 | 2437 | 22.31 | 22.50 | 2.830 | 0.113 | 1.045 | 0.118 | |
| | | Right-Cheek | 6 | 2437 | 22.31 | 22.50 | 1.201 | 0.149 | 1.045 | 0.156 | |
| | | Right-Tilt | 6 | 2437 | 22.31 | 22.50 | 2.420 | 0.134 | 1.045 | 0.140 | |
| 2.4G -MIMO ANT 2 side | 802.11n | Left-Cheek | 6 | 2437 | 22.31 | 22.50 | 0.503 | 0.126 | 1.045 | 0.132 | |
| | | Left-Tilt | 6 | 2437 | 22.31 | 22.50 | 0.880 | 0.115 | 1.045 | 0.120 | |
| | | Right-Cheek | 6 | 2437 | 22.31 | 22.50 | 1.570 | 0.150 | 1.045 | 0.157 | |
| | | Right-Tilt | 6 | 2437 | 22.31 | 22.50 | -2.320 | 0.136 | 1.045 | 0.142 | |

**Note:**
1. The frame average of GPRS 850 (4Tx slots) & GPRS 1900 (2Tx slots) higher than GSM and sample can support VOIP function, tested at GPRS mode for head.

| Band | Mode | Test Position with 0mm | CH. | Freq. (MHz) | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.2G -ANT 1 | 802.11ac (VTH80) | Left-Cheek | 42 | 5210 | 8.98 | 9.00 | 1.255 | 0.146 | 1.005 | 0.147 | 1.60 |
| | | Left-Tilt | 42 | 5210 | 8.98 | 9.00 | 0.700 | 0.047 | 1.005 | 0.047 | |
| | | Right-Cheek | 42 | 5210 | 8.98 | 9.00 | -1.050 | 0.165 | 1.005 | 0.166 | |
| | | Right-Tilt | 42 | 5210 | 8.98 | 9.00 | 2.851 | 0.067 | 1.005 | 0.067 | |
| 5.2G -ANT 2 | 802.11ac (VTH80) | Left-Cheek | 42 | 5210 | 9.35 | 9.50 | 1.002 | 0.163 | 1.035 | 0.169 | |
| | | Left-Tilt | 42 | 5210 | 9.35 | 9.50 | -1.541 | 0.062 | 1.035 | 0.064 | |
| | | Right-Cheek | 42 | 5210 | 9.35 | 9.50 | -2.980 | 0.177 | 1.035 | **0.183** | |
| | | Right-Tilt | 42 | 5210 | 9.35 | 9.50 | 1.122 | 0.080 | 1.035 | 0.083 | |
| 5.2G -MIMO ANT 1 side | 802.11ac (VTH80) | Left-Cheek | 42 | 5210 | 12.18 | 12.50 | -2.420 | 0.025 | 1.076 | 0.027 | |
| | | Left-Tilt | 42 | 5210 | 12.18 | 12.50 | 0.583 | 0.014 | 1.076 | 0.015 | |
| | | Right-Cheek | 42 | 5210 | 12.18 | 12.50 | 2.818 | 0.071 | 1.076 | 0.076 | |
| | | Right-Tilt | 42 | 5210 | 12.18 | 12.50 | -3.194 | 0.023 | 1.076 | 0.025 | |
| 5.2G -MIMO ANT 2 side | 802.11ac (VTH80) | Left-Cheek | 42 | 5210 | 12.18 | 12.50 | -1.130 | 0.062 | 1.076 | 0.067 | |
| | | Left-Tilt | 42 | 5210 | 12.18 | 12.50 | 2.927 | 0.013 | 1.076 | 0.014 | |
| | | Right-Cheek | 42 | 5210 | 12.18 | 12.50 | 1.275 | 0.059 | 1.076 | 0.063 | |
| | | Right-Tilt | 42 | 5210 | 12.18 | 12.50 | 2.478 | 0.017 | 1.076 | 0.018 | |
| 5.8G -ANT 1 | 802.11n (HT40) | Left-Cheek | 151 | 5755 | 9.38 | 9.50 | -0.950 | 0.186 | 1.028 | 0.191 | |
| | | Left-Tilt | 151 | 5755 | 9.38 | 9.50 | -1.334 | 0.088 | 1.028 | 0.090 | |
| | | Right-Cheek | 151 | 5755 | 9.38 | 9.50 | -0.945 | 0.206 | 1.028 | 0.212 | |
| | | Right-Tilt | 151 | 5755 | 9.38 | 9.50 | -1.603 | 0.108 | 1.028 | 0.111 | |
| 5.8G -ANT 2 | 802.11a | Left-Cheek | 165 | 5825 | 10.47 | 10.50 | 1.314 | 0.204 | 1.007 | 0.205 | |
| | | Left-Tilt | 165 | 5825 | 10.47 | 10.50 | 1.638 | 0.103 | 1.007 | 0.104 | |
| | | Right-Cheek | 165 | 5825 | 10.47 | 10.50 | -1.228 | 0.218 | 1.007 | **0.220** | |
| | | Right-Tilt | 165 | 5825 | 10.47 | 10.50 | 2.043 | 0.121 | 1.007 | 0.122 | |
| 5.8G -MIMO ANT 1 side | 802.11n (HT40) | Left-Cheek | 159 | 5795 | 12.75 | 13.00 | -1.729 | 0.066 | 1.059 | 0.070 | |
| | | Left-Tilt | 159 | 5795 | 12.75 | 13.00 | -3.382 | 0.055 | 1.059 | 0.058 | |
| | | Right-Cheek | 159 | 5795 | 12.75 | 13.00 | -2.254 | 0.112 | 1.059 | 0.119 | |
| | | Right-Tilt | 159 | 5795 | 12.75 | 13.00 | 4.793 | 0.064 | 1.059 | 0.068 | |
| 5.8G -MIMO ANT 2 side | 802.11n (HT40) | Left-Cheek | 159 | 5795 | 12.75 | 13.00 | 1.700 | 0.103 | 1.059 | 0.109 | |
| | | Left-Tilt | 159 | 5795 | 12.75 | 13.00 | 0.575 | 0.054 | 1.059 | 0.057 | |
| | | Right-Cheek | 159 | 5795 | 12.75 | 13.00 | 0.975 | 0.100 | 1.059 | 0.106 | |
| | | Right-Tilt | 159 | 5795 | 12.75 | 13.00 | -2.100 | 0.058 | 1.059 | 0.061 | |

| Band | Mode | Test Position with 0mm | CH. | Freq. (MHz) | RB allocation | RB offset | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE Band 2 | QPSK (20MHz) | Left-Cheek | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | -1.160 | 0.141 | 1.047 | 0.148 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | 0.556 | 0.135 | 1.069 | 0.144 | |
| | | Left-Tilt | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | 0.980 | 0.120 | 1.047 | 0.126 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | -0.850 | 0.114 | 1.069 | 0.122 | |
| | | Right-Cheek | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | -1.160 | 0.142 | 1.047 | **0.149** | |
| | | | | | 50 | 0 | 23.71 | 24.00 | 1.500 | 0.138 | 1.069 | 0.148 | |
| | | Right-Tilt | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | 2.503 | 0.122 | 1.047 | 0.128 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | 2.001 | 0.118 | 1.069 | 0.126 | |
| LTE Band 4 | QPSK (20MHz) | Left-Cheek | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | -1.160 | 0.205 | 1.079 | 0.221 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | -1.100 | 0.200 | 1.096 | 0.219 | |
| | | Left-Tilt | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | 0.980 | 0.151 | 1.079 | 0.163 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | 1.500 | 0.148 | 1.096 | 0.162 | |
| | | Right-Cheek | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | 4.100 | 0.237 | 1.079 | **0.256** | |
| | | | | | 50 | 0 | 23.10 | 23.50 | -0.150 | 0.220 | 1.096 | 0.241 | |
| | | Right-Tilt | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | 2.503 | 0.135 | 1.079 | 0.146 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | 2.008 | 0.122 | 1.096 | 0.134 | |
| LTE Band 5 | QPSK (10MHz) | Left-Cheek | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | -1.160 | 0.119 | 1.067 | **0.127** | |
| | | | | | 25 | 0 | 23.10 | 23.50 | -1.300 | 0.112 | 1.096 | 0.123 | |
| | | Left-Tilt | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | 0.980 | 0.099 | 1.067 | 0.106 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | 2.050 | 0.095 | 1.096 | 0.104 | |
| | | Right-Cheek | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | -1.331 | 0.115 | 1.067 | 0.123 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | 3.160 | 0.111 | 1.096 | 0.122 | |
| | | Right-Tilt | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | 2.503 | 0.097 | 1.067 | 0.103 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | -1.056 | 0.094 | 1.096 | 0.103 | |
| LTE Band 7 | QPSK (20MHz) | Left-Cheek | 21350 | 2560 | 1 | 99 | 24.08 | 24.50 | -2.000 | 0.121 | 1.102 | **0.133** | **1.60** |
| | | | | | 50 | 0 | 23.23 | 23.50 | 1.980 | 0.120 | 1.064 | 0.128 | |
| | | Left-Tilt | 21350 | 2560 | 1 | 99 | 24.08 | 24.50 | 0.980 | 0.066 | 1.102 | 0.073 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | -0.622 | 0.065 | 1.064 | 0.069 | |
| | | Right-Cheek | 21350 | 2560 | 1 | 99 | 24.08 | 24.50 | -1.331 | 0.111 | 1.102 | 0.122 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | 1.400 | 0.109 | 1.064 | 0.116 | |
| | | Right-Tilt | 21350 | 2560 | 1 | 99 | 24.08 | 24.50 | 2.503 | 0.064 | 1.102 | 0.071 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | -3.065 | 0.062 | 1.064 | 0.066 | |
| LTE Band 12 | QPSK (10MHz) | Left-Cheek | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | -1.160 | 0.188 | 1.047 | 0.197 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | -1.360 | 0.185 | 1.069 | 0.198 | |
| | | Left-Tilt | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | 0.980 | 0.131 | 1.047 | 0.137 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | -2.411 | 0.127 | 1.069 | 0.136 | |
| | | Right-Cheek | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | 1.370 | 0.192 | 1.047 | **0.201** | |
| | | | | | 25 | 25 | 22.71 | 23.00 | 1.236 | 0.186 | 1.069 | 0.199 | |
| | | Right-Tilt | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | 2.503 | 0.136 | 1.047 | 0.142 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | -1.002 | 0.130 | 1.069 | 0.139 | |
| LTE Band 17 | QPSK (10MHz) | Left-Cheek | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | -1.160 | 0.180 | 1.050 | 0.189 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -0.260 | 0.178 | 1.054 | 0.188 | |
| | | Left-Tilt | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | 0.980 | 0.113 | 1.050 | 0.119 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | 0.166 | 0.109 | 1.054 | 0.115 | |
| | | Right-Cheek | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | -1.580 | 0.183 | 1.050 | **0.192** | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -1.506 | 0.180 | 1.054 | 0.190 | |
| | | Right-Tilt | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | 2.503 | 0.114 | 1.050 | 0.120 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -2.001 | 0.112 | 1.054 | 0.118 | |

| Band | Mode | Test Position with 0mm | CH. | Freq. (MHz) | RB allocation | RB offset | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE Band 25 | QPSK (20MHz) | Left-Cheek | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | -0.310 | 0.236 | 1.050 | **0.248** | 1.60 |
| | | | | | 50 | 50 | 23.42 | 23.50 | -1.022 | 0.227 | 1.019 | 0.231 | |
| | | Left-Tilt | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | 2.503 | 0.115 | 1.050 | 0.121 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | 4.015 | 0.111 | 1.019 | 0.113 | |
| | | Right-Cheek | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | -1.160 | 0.205 | 1.050 | 0.215 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | -0.205 | 0.193 | 1.019 | 0.197 | |
| | | Right-Tilt | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | 0.980 | 0.121 | 1.050 | 0.127 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | 2.011 | 0.117 | 1.019 | 0.119 | |
| LTE Band 26 | QPSK (15MHz) | Left-Cheek | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | 1.580 | 0.100 | 1.030 | **0.103** | |
| | | | | | 36 | 18 | 22.73 | 23.00 | 2.033 | 0.091 | 1.064 | 0.097 | |
| | | Left-Tilt | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | 2.503 | 0.055 | 1.030 | 0.057 | |
| | | | | | 36 | 18 | 22.73 | 23.00 | -1.025 | 0.054 | 1.064 | 0.057 | |
| | | Right-Cheek | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | -1.160 | 0.098 | 1.030 | 0.101 | |
| | | | | | 36 | 18 | 22.73 | 23.00 | 3.026 | 0.096 | 1.064 | 0.102 | |
| | | Right-Tilt | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | 0.980 | 0.057 | 1.030 | 0.059 | |
| | | | | | 36 | 18 | 22.73 | 23.00 | 4.015 | 0.056 | 1.064 | 0.060 | |
| LTE Band 38 | QPSK (20MHz) | Left-Cheek | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | 1.580 | 0.085 | 1.057 | **0.090** | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 2.650 | 0.084 | 1.033 | 0.087 | |
| | | Left-Tilt | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | 0.980 | 0.053 | 1.057 | 0.056 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 0.365 | 0.052 | 1.033 | 0.054 | |
| | | Right-Cheek | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | -1.331 | 0.084 | 1.057 | 0.089 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 1.422 | 0.082 | 1.033 | 0.085 | |
| | | Right-Tilt | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | 2.503 | 0.051 | 1.057 | 0.054 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 2.060 | 0.050 | 1.033 | 0.052 | |
| LTE Band 41 | QPSK (20MHz) | Left-Cheek | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | -2.000 | 0.165 | 1.028 | **0.170** | |
| | | | | | 50 | 0 | 22.57 | 23.00 | 0.650 | 0.152 | 1.104 | 0.168 | |
| | | Left-Tilt | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | 0.980 | 0.101 | 1.028 | 0.104 | |
| | | | | | 50 | 0 | 22.57 | 23.00 | -1.455 | 0.099 | 1.104 | 0.109 | |
| | | Right-Cheek | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | -1.331 | 0.159 | 1.028 | 0.163 | |
| | | | | | 50 | 0 | 22.57 | 23.00 | 3.065 | 0.149 | 1.104 | 0.164 | |
| | | Right-Tilt | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | 2.503 | 0.1 | 1.028 | 0.103 | |
| | | | | | 50 | 0 | 22.57 | 23.00 | -2.011 | 0.097 | 1.104 | 0.107 | |
| LTE Band 66 | QPSK (20MHz) | Left-Cheek | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -3.180 | 0.331 | 1.117 | 0.370 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 1.112 | 0.273 | 1.016 | 0.277 | |
| | | Left-Tilt | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -0.890 | 0.229 | 1.117 | 0.256 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 1.230 | 0.170 | 1.016 | 0.173 | |
| | | Right-Cheek | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | 1.460 | 0.354 | 1.117 | **0.395** | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 2.150 | 0.297 | 1.016 | 0.302 | |
| | | Right-Tilt | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -0.510 | 0.256 | 1.117 | 0.286 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | -1.620 | 0.200 | 1.016 | 0.203 | |

## 10.2. Hotspot/Body-worn 1g SAR Data

| Band | Mode | Test Position with 10 mm | CH. | Freq. (MHz) | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GSM 850 | GPRS 4slots | Front | 190 | 836.6 | 28.57 | 29.00 | -1.200 | 0.274 | 1.104 | 0.302 | 1.60 |
| | | Back | 190 | 836.6 | 28.57 | 29.00 | -3.250 | 0.487 | 1.104 | **0.538** | |
| | | Left | 190 | 836.6 | 28.57 | 29.00 | -0.220 | 0.298 | 1.104 | 0.329 | |
| | | Bottom | 190 | 836.6 | 28.57 | 29.00 | 3.500 | 0.312 | 1.104 | 0.344 | |
| GSM 1900 | GPRS 2slots | Front | 512 | 1850.2 | 29.88 | 30.00 | -0.120 | 0.655 | 1.028 | 0.673 | |
| | | Back | 512 | 1850.2 | 29.88 | 30.00 | -0.880 | 0.666 | 1.028 | **0.685** | |
| | | Left | 512 | 1850.2 | 29.88 | 30.00 | 1.511 | 0.461 | 1.028 | 0.474 | |
| | | Bottom | 512 | 1850.2 | 29.88 | 30.00 | 0.115 | 0.512 | 1.028 | 0.526 | |
| WCDMA Band II | RMC | Front | 9262 | 1852.4 | 23.49 | 23.50 | -0.220 | 0.701 | 1.002 | 0.702 | |
| | | Back | 9262 | 1852.4 | 23.49 | 23.50 | 0.270 | 0.716 | 1.002 | **0.717** | |
| | | Left | 9262 | 1852.4 | 23.49 | 23.50 | 3.225 | 0.498 | 1.002 | 0.499 | |
| | | Bottom | 9262 | 1852.4 | 23.49 | 23.50 | 1.098 | 0.622 | 1.002 | 0.623 | |
| WCDMA Band IV | RMC | Front | 1312 | 1712.4 | 22.92 | 23.00 | -0.710 | 0.747 | 1.019 | 0.761 | |
| | | Back | 1312 | 1712.4 | 22.92 | 23.00 | -0.510 | 0.960 | 1.019 | **0.978** | |
| | | Back | 1413 | 1732.6 | 22.85 | 23.00 | -0.260 | 0.942 | 1.035 | 0.975 | |
| | | Back | 1513 | 1752.6 | 22.67 | 23.00 | 1.200 | 0.905 | 1.079 | 0.976 | |
| | | Left | 1312 | 1712.4 | 22.92 | 23.00 | -0.254 | 0.710 | 1.019 | 0.723 | |
| | | Bottom | 1312 | 1712.4 | 22.92 | 23.00 | 0.222 | 0.780 | 1.019 | 0.795 | |
| WCDMA Band V | RMC | Front | 4132 | 826.4 | 23.29 | 23.50 | -1.660 | 0.139 | 1.050 | 0.146 | |
| | | Back | 4132 | 826.4 | 23.29 | 23.50 | -1.300 | 0.289 | 1.050 | **0.303** | |
| | | Left | 4132 | 826.4 | 23.29 | 23.50 | 0.121 | 0.115 | 1.050 | 0.121 | |
| | | Bottom | 4132 | 826.4 | 23.29 | 23.50 | -0.102 | 0.143 | 1.050 | 0.150 | |
| 2.4G -ANT 1 | 802.11b | Front | 6 | 2437 | 16.42 | 16.50 | -3.570 | 0.188 | 1.019 | 0.192 | |
| | | Back | 6 | 2437 | 16.42 | 16.50 | -1.880 | 0.151 | 1.019 | 0.154 | |
| | | Right | 6 | 2437 | 16.42 | 16.50 | -2.390 | 0.136 | 1.019 | 0.139 | |
| | | Top | 6 | 2437 | 16.42 | 16.50 | 4.670 | 0.123 | 1.019 | 0.125 | |
| 2.4G -ANT 2 | 802.11b | Front | 11 | 2462 | 16.57 | 17.00 | -3.030 | 0.193 | 1.104 | **0.213** | |
| | | Back | 11 | 2462 | 16.57 | 17.00 | -1.880 | 0.150 | 1.104 | 0.166 | |
| | | Right | 11 | 2462 | 16.57 | 17.00 | -2.390 | 0.148 | 1.104 | 0.163 | |
| 2.4G -MIMO ANT 1 side | 802.11n | Front | 6 | 2437 | 22.31 | 22.50 | 2.830 | 0.097 | 1.045 | 0.101 | |
| | | Back | 6 | 2437 | 22.31 | 22.50 | -1.205 | 0.075 | 1.045 | 0.078 | |
| | | Right | 6 | 2437 | 22.31 | 22.50 | 1.201 | 0.074 | 1.045 | 0.077 | |
| | | Top | 6 | 2437 | 22.31 | 22.50 | 2.420 | 0.058 | 1.045 | 0.061 | |
| 2.4G -MIMO ANT 2 side | 802.11n | Front | 6 | 2437 | 22.31 | 22.50 | 0.880 | 0.095 | 1.045 | 0.099 | |
| | | Back | 6 | 2437 | 22.31 | 22.50 | 0.503 | 0.072 | 1.045 | 0.075 | |
| | | Right | 6 | 2437 | 22.31 | 22.50 | 1.570 | 0.073 | 1.045 | 0.076 | |

| Band | Mode | Test Position with 10 mm | CH. | Freq. (MHz) | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.2G -ANT 1 | 802.11ac (VTH80) | Front | 42 | 5210 | 8.98 | 9.00 | 0.700 | 0.135 | 1.005 | 0.243 | 1.60 |
| | | Back | 42 | 5210 | 8.98 | 9.00 | -2.420 | 0.058 | 1.005 | 0.099 | |
| | | Right | 42 | 5210 | 8.98 | 9.00 | -1.050 | 0.060 | 1.005 | 0.102 | |
| | | Top | 42 | 5210 | 8.98 | 9.00 | 2.851 | 0.070 | 1.005 | 0.112 | |
| 5.2G -ANT 2 | 802.11ac (VTH80) | Front | 42 | 5210 | 9.35 | 9.50 | -4.920 | 0.146 | 1.035 | **0.259** | |
| | | Back | 42 | 5210 | 9.35 | 9.50 | 1.639 | 0.061 | 1.035 | 0.106 | |
| | | Right | 42 | 5210 | 9.35 | 9.50 | -3.420 | 0.063 | 1.035 | 0.108 | |
| 5.2G -MIMO ANT 1 side | 802.11ac (VTH80) | Front | 42 | 5210 | 12.18 | 12.50 | 0.583 | 0.083 | 1.076 | 0.133 | |
| | | Back | 42 | 5210 | 12.18 | 12.50 | 4.818 | 0.019 | 1.076 | 0.054 | |
| | | Right | 42 | 5210 | 12.18 | 12.50 | 2.818 | 0.021 | 1.076 | 0.054 | |
| | | Top | 42 | 5210 | 12.18 | 12.50 | -3.194 | 0.015 | 1.076 | 0.060 | |
| 5.2G -MIMO ANT 2 side | 802.11ac (VTH80) | Front | 42 | 5210 | 12.18 | 12.50 | 2.927 | 0.084 | 1.076 | 0.135 | |
| | | Back | 42 | 5210 | 12.18 | 12.50 | -1.130 | 0.018 | 1.076 | 0.055 | |
| | | Right | 42 | 5210 | 12.18 | 12.50 | 1.275 | 0.018 | 1.076 | 0.056 | |
| 5.8G -ANT 1 | 802.11n (HT40) | Front | 151 | 5755 | 9.38 | 9.50 | -1.334 | 0.247 | 1.028 | 0.254 | |
| | | Back | 151 | 5755 | 9.38 | 9.50 | -0.950 | 0.104 | 1.028 | 0.107 | |
| | | Right | 151 | 5755 | 9.38 | 9.50 | -0.945 | 0.106 | 1.028 | 0.109 | |
| | | Top | 151 | 5755 | 9.38 | 9.50 | -1.603 | 0.116 | 1.028 | 0.119 | |
| 5.8G -ANT 2 | 802.11a | Front | 165 | 5825 | 10.47 | 10.50 | 1.638 | 0.255 | 1.007 | **0.257** | |
| | | Back | 165 | 5825 | 10.47 | 10.50 | 1.314 | 0.107 | 1.007 | 0.108 | |
| | | Right | 165 | 5825 | 10.47 | 10.50 | -1.228 | 0.109 | 1.007 | 0.110 | |
| 5.8G -MIMO ANT 1 side | 802.11n (HT40) | Front | 159 | 5795 | 12.75 | 13.00 | -3.382 | 0.129 | 1.059 | 0.137 | |
| | | Back | 159 | 5795 | 12.75 | 13.00 | -1.729 | 0.055 | 1.059 | 0.058 | |
| | | Right | 159 | 5795 | 12.75 | 13.00 | -2.254 | 0.055 | 1.059 | 0.058 | |
| | | Top | 159 | 5795 | 12.75 | 13.00 | 4.793 | 0.061 | 1.059 | 0.065 | |
| 5.8G -MIMO ANT 2 side | 802.11n (HT40) | Front | 159 | 5795 | 12.75 | 13.00 | 0.575 | 0.130 | 1.059 | 0.138 | |
| | | Back | 159 | 5795 | 12.75 | 13.00 | 1.700 | 0.056 | 1.059 | 0.059 | |
| | | Right | 159 | 5795 | 12.75 | 13.00 | 0.975 | 0.057 | 1.059 | 0.060 | |

| Band | Mode | Test Position with 10 mm | CH. | Freq. (MHz) | RB allocation | RB offset | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE Band 2 | QPSK (20MHz) | Front | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | -1.160 | 0.430 | 1.047 | 0.450 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | -1.200 | 0.410 | 1.069 | 0.438 | |
| | | Back | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | -0.950 | 0.511 | 1.047 | **0.535** | |
| | | | | | 50 | 0 | 23.71 | 24.00 | 0.800 | 0.484 | 1.069 | 0.517 | |
| | | Left | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | -1.331 | 0.195 | 1.047 | 0.204 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | 1.660 | 0.177 | 1.069 | 0.189 | |
| | | Bottom | 19100 | 1900.0 | 1 | 0 | 24.30 | 24.50 | 2.503 | 0.135 | 1.047 | 0.141 | |
| | | | | | 50 | 0 | 23.71 | 24.00 | -2.015 | 0.126 | 1.069 | 0.135 | |
| LTE Band 4 | QPSK (20MHz) | Front | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | -1.160 | 0.365 | 1.079 | 0.394 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | 0.520 | 0.355 | 1.096 | 0.389 | |
| | | Back | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | -4.350 | 0.587 | 1.079 | **0.633** | |
| | | | | | 50 | 0 | 23.10 | 23.50 | 1.260 | 0.576 | 1.096 | 0.631 | |
| | | Left | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | -1.331 | 0.201 | 1.079 | 0.217 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | -3.600 | 0.195 | 1.096 | 0.214 | |
| | | Bottom | 20050 | 1720.0 | 1 | 99 | 24.17 | 24.50 | 2.503 | 0.135 | 1.079 | 0.146 | |
| | | | | | 50 | 0 | 23.10 | 23.50 | -2.120 | 0.122 | 1.096 | 0.134 | |
| LTE Band 5 | QPSK (10MHz) | Front | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | -1.160 | 0.161 | 1.067 | 0.172 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | -1.200 | 0.155 | 1.096 | 0.170 | |
| | | Back | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | -2.240 | 0.205 | 1.067 | **0.219** | |
| | | | | | 25 | 0 | 23.10 | 23.50 | 1.003 | 0.189 | 1.096 | 0.207 | |
| | | Left | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | -1.331 | 0.160 | 1.067 | 0.171 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | 2.360 | 0.153 | 1.096 | 0.168 | |
| | | Bottom | 20525 | 836.5 | 1 | 0 | 24.22 | 24.50 | 2.503 | 0.105 | 1.067 | 0.112 | |
| | | | | | 25 | 0 | 23.10 | 23.50 | -3.066 | 0.098 | 1.096 | 0.107 | |
| LTE Band 7 | QPSK (20MHz) | Front | 21350 | 2560.0 | 1 | 99 | 24.08 | 24.50 | -1.160 | 0.365 | 1.102 | 0.402 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | 2.600 | 0.350 | 1.064 | 0.372 | |
| | | Back | 21350 | 2560.0 | 1 | 99 | 24.08 | 24.50 | 3.910 | 0.480 | 1.102 | **0.529** | |
| | | | | | 50 | 0 | 23.23 | 23.50 | -2.066 | 0.477 | 1.064 | 0.508 | |
| | | Left | 21350 | 2560.0 | 1 | 99 | 24.08 | 24.50 | -1.331 | 0.301 | 1.102 | 0.332 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | -1.230 | 0.295 | 1.064 | 0.314 | |
| | | Bottom | 21350 | 2560.0 | 1 | 99 | 24.08 | 24.50 | 2.503 | 0.235 | 1.102 | 0.259 | |
| | | | | | 50 | 0 | 23.23 | 23.50 | -2.200 | 0.222 | 1.064 | 0.236 | |
| LTE Band 12 | QPSK (10MHz) | Front | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | -1.160 | 0.310 | 1.047 | 0.325 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | -1.100 | 0.304 | 1.069 | 0.325 | |
| | | Back | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | -3.970 | 0.417 | 1.047 | **0.437** | |
| | | | | | 25 | 25 | 22.71 | 23.00 | -0.553 | 0.408 | 1.069 | 0.436 | |
| | | Left | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | -1.331 | 0.295 | 1.047 | 0.309 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | 1.360 | 0.287 | 1.069 | 0.307 | |
| | | Bottom | 23060 | 704.0 | 1 | 49 | 23.80 | 24.00 | 2.503 | 0.216 | 1.047 | 0.226 | |
| | | | | | 25 | 25 | 22.71 | 23.00 | 2.044 | 0.209 | 1.069 | 0.223 | |
| LTE Band 17 | QPSK (10MHz) | Front | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | -1.160 | 0.288 | 1.050 | 0.302 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -1.230 | 0.285 | 1.054 | 0.300 | |
| | | Back | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | -3.480 | 0.400 | 1.050 | **0.420** | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -3.500 | 0.394 | 1.054 | 0.415 | |
| | | Left | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | -1.331 | 0.251 | 1.050 | 0.264 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | 1.800 | 0.244 | 1.054 | 0.257 | |
| | | Bottom | 23780 | 709.0 | 1 | 49 | 23.79 | 24.00 | 2.503 | 0.185 | 1.050 | 0.194 | |
| | | | | | 25 | 25 | 22.77 | 23.00 | -2.411 | 0.179 | 1.054 | 0.189 | |
| LTE Band 25 | QPSK (20MHz) | Front | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | -1.160 | 0.684 | 1.050 | 0.718 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | -1.204 | 0.681 | 1.019 | 0.694 | |
| | | Back | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | 3.500 | 0.714 | 1.050 | **0.750** | |
| | | | | | 50 | 50 | 23.42 | 23.50 | 0.566 | 0.710 | 1.019 | 0.723 | |
| | | Left | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | -1.331 | 0.559 | 1.050 | 0.587 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | -1.266 | 0.554 | 1.019 | 0.565 | |
| | | Bottom | 26365 | 1882.5 | 1 | 50 | 24.29 | 24.50 | 2.503 | 0.435 | 1.050 | 0.457 | |
| | | | | | 50 | 50 | 23.42 | 23.50 | 2.100 | 0.431 | 1.019 | 0.439 | |

**1.60**

| Band | Mode | Test Position with 10 mm | CH. | Freq. (MHz) | RB allocation | RB offset | Ave. Power (dBm) | Tune-Up Limit (dBm) | Power Drift (%) | Meas. SAR1g (W/kg) | Scaling Factor | Reported SAR1g (W/kg) | Limit (W/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE Band 26 | QPSK (15MHz) | Front | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | -1.160 | 0.272 | 1.030 | 0.280 | 1.60 |
| | | | | | 36 | 18 | 22.73 | 23.00 | 1.366 | 0.266 | 1.064 | 0.283 | |
| | | Back | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | -2.450 | 0.288 | 1.030 | **0.297** | |
| | | | | | 36 | 18 | 22.73 | 23.00 | -0.855 | 0.271 | 1.064 | 0.288 | |
| | | Left | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | -1.331 | 0.102 | 1.030 | 0.105 | |
| | | | | | 36 | 18 | 22.73 | 23.00 | 1.105 | 0.097 | 1.064 | 0.103 | |
| | | Bottom | 26765 | 821.5 | 1 | 74 | 23.87 | 24.00 | 2.503 | 0.185 | 1.030 | 0.191 | |
| | | | | | 36 | 18 | 22.73 | 23.00 | -2.060 | 0.177 | 1.064 | 0.188 | |
| LTE Band 38 | QPSK (20MHz) | Front | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | -1.160 | 0.165 | 1.057 | 0.174 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 2.041 | 0.159 | 1.033 | 0.164 | |
| | | Back | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | 0.980 | 0.208 | 1.057 | **0.220** | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 2.700 | 0.200 | 1.033 | 0.207 | |
| | | Left | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | -1.331 | 0.192 | 1.057 | 0.203 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | 1.560 | 0.186 | 1.033 | 0.192 | |
| | | Bottom | 38150 | 2610.0 | 1 | 50 | 23.76 | 24.00 | 2.503 | 0.125 | 1.057 | 0.132 | |
| | | | | | 50 | 50 | 22.86 | 23.00 | -1.800 | 0.121 | 1.033 | 0.125 | |
| LTE Band 41 | QPSK (20MHz) | Front | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | -1.160 | 0.465 | 1.028 | 0.478 | |
| | | | | | 50 | 0 | 22.57 | 23.00 | 1.209 | 0.450 | 1.104 | 0.497 | |
| | | Back | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | -1.470 | 0.528 | 1.028 | **0.543** | |
| | | | | | 50 | 0 | 22.57 | 23.00 | 1.025 | 0.480 | 1.104 | 0.530 | |
| | | Left | 41490 | 2680.0 | 1 | 50 | 23.38 | 23.50 | -1.331 | 0.301 | 1.028 | 0.309 | |
| | | | | | 50 | 0 | 22.57 | 23.00 | 1.266 | 0.296 | 1.104 | 0.327 | |
| LTE Band 66 | QPSK (20MHz) | Front | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -2.050 | 0.619 | 1.117 | 0.691 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 1.054 | 0.561 | 1.016 | 0.570 | |
| | | Back | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -1.370 | 0.673 | 1.117 | **0.752** | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 0.221 | 0.614 | 1.016 | 0.624 | |
| | | Left | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | -1.003 | 0.317 | 1.117 | 0.354 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | 1.326 | 0.260 | 1.016 | 0.264 | |
| | | Bottom | 132322 | 1745.0 | 1 | 0 | 23.02 | 23.50 | 2.006 | 0.293 | 1.117 | 0.327 | |
| | | | | | 50 | 25 | 21.93 | 22.00 | -0.955 | 0.236 | 1.016 | 0.240 | |

**Note:**

1. Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
2. Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with body tissue-equivalent medium.
3. Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
4. Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) - Ave.power power (dBm))/10], where tune-up limit is the maximum rated power among all production units.
   Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.
4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is ≥ 1.45W/kg.
5. Perform a second measurement only if the original, first and second repeated measurement is ≥1.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20.
6. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).

## 10.3. Simultaneous Transmission Conclusion

### Multi-Band Simultaneous Transmission Considerations

According to FCC KDB Publication 447498 D01v05r02, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.


**Simultaneous Transmission Paths**

### Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05r02, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v05r02 4.3.2.2), the following equation must be used to estimate the standalone 1g SAR and 10g extremity SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(GHz)}}{7.5(18.75)} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

| Mode | Max. tune-up Power (dBm) | Exposure Position | Head | Body-worn |
|---|---|---|---|---|
| | | Test Distance (mm) | 5 | 10 |
| BT | 9.50 | Estimated SAR (W/kg) | / | 0.184 |

**Note:**

1. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.
2. (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
3. Per KDB 648474 D04 require when the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, using the same wireless mode test configuration for voice and data, such as UMTS, LTE and Wi-Fi, and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration.

### Simultaneous Transmission Possibilities

**The Simultaneous Transmission Possibilities of this device are as below:**

| NO. | Configuration | Head | Body-worn |
|---|---|---|---|
| 1 | WWAN+WIFI(2.4g) | Yes | Yes |
| 2 | WWAN+WIFI(5g) | Yes | Yes |
| 3 | WWAN+BT | Yes | Yes |

Head

| Band | Test Position | Scaled SAR | | | | Σmax SAR (W/kg) WWAN + WIFI 2.4G | Σmax SAR (W/kg) WWAN + WIFI 5G | Σmax SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | | WWAN | WIFI 2.4G | WIFI 5G | BT | | | | | |
| GSM850 (GPRS 4slots) | Left-Cheek | **0.121** | 0.306 | 0.205 | **0.095** | 0.427 | 0.326 | 0.216 | N/A | N/A |
| | Left-Tilt | 0.067 | 0.265 | 0.104 | 0.056 | 0.332 | 0.171 | 0.123 | N/A | N/A |
| | Right-Cheek | 0.078 | **0.344** | **0.220** | 0.092 | 0.422 | 0.298 | 0.170 | N/A | N/A |
| | Right-Tilt | 0.070 | 0.309 | 0.122 | 0.057 | 0.379 | 0.192 | 0.127 | N/A | N/A |
| GSM1900 (GPRS 2slots) | Left-Cheek | **0.393** | 0.306 | 0.205 | **0.095** | 0.699 | 0.598 | 0.488 | N/A | N/A |
| | Left-Tilt | 0.191 | 0.265 | 0.104 | 0.056 | 0.456 | 0.295 | 0.247 | N/A | N/A |
| | Right-Cheek | 0.362 | **0.344** | **0.220** | 0.092 | 0.706 | 0.582 | 0.454 | N/A | N/A |
| | Right-Tilt | 0.194 | 0.309 | 0.122 | 0.057 | 0.503 | 0.316 | 0.251 | N/A | N/A |
| WCDMA Band II | Left-Cheek | **0.515** | 0.306 | 0.205 | **0.095** | **0.821** | 0.720 | 0.610 | N/A | N/A |
| | Left-Tilt | 0.298 | 0.265 | 0.104 | 0.056 | 0.563 | 0.402 | 0.354 | N/A | N/A |
| | Right-Cheek | 0.456 | **0.344** | **0.220** | 0.092 | 0.800 | 0.676 | 0.548 | N/A | N/A |
| | Right-Tilt | 0.282 | 0.309 | 0.122 | 0.057 | 0.591 | 0.404 | 0.339 | N/A | N/A |
| WCDMA Band IV | Left-Cheek | **0.423** | 0.306 | 0.205 | **0.095** | 0.729 | 0.628 | 0.518 | N/A | N/A |
| | Left-Tilt | 0.192 | 0.265 | 0.104 | 0.056 | 0.457 | 0.296 | 0.248 | N/A | N/A |
| | Right-Cheek | 0.410 | **0.344** | **0.220** | 0.092 | 0.754 | 0.630 | 0.502 | N/A | N/A |
| | Right-Tilt | 0.174 | 0.309 | 0.122 | 0.057 | 0.483 | 0.296 | 0.231 | N/A | N/A |
| WCDMA Band V | Left-Cheek | **0.237** | 0.306 | 0.205 | **0.095** | 0.543 | 0.442 | 0.332 | N/A | N/A |
| | Left-Tilt | 0.148 | 0.265 | 0.104 | 0.056 | 0.413 | 0.252 | 0.204 | N/A | N/A |
| | Right-Cheek | 0.219 | **0.344** | **0.220** | 0.092 | 0.563 | 0.439 | 0.311 | N/A | N/A |
| | Right-Tilt | 0.147 | 0.309 | 0.122 | 0.057 | 0.456 | 0.269 | 0.204 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 2 QPSK (20MHz) | Left-Cheek | 1 | 0.148 | 0.306 | 0.205 | **0.095** | 0.454 | 0.353 | 0.243 | N/A | N/A |
| | | 50 | 0.144 | 0.306 | 0.104 | **0.095** | 0.450 | 0.248 | 0.239 | N/A | N/A |
| | Left-Tilt | 1 | 0.126 | 0.265 | **0.22** | 0.056 | 0.391 | 0.346 | 0.182 | N/A | N/A |
| | | 50 | 0.122 | 0.265 | 0.122 | 0.056 | 0.387 | 0.244 | 0.178 | N/A | N/A |
| | Right-Cheek | 1 | **0.149** | **0.344** | 0.205 | 0.092 | 0.493 | 0.354 | 0.241 | N/A | N/A |
| | | 50 | 0.148 | **0.344** | 0.104 | 0.092 | 0.492 | 0.252 | 0.240 | N/A | N/A |
| | Right-Tilt | 1 | 0.128 | 0.309 | **0.22** | 0.057 | 0.437 | 0.348 | 0.185 | N/A | N/A |
| | | 50 | 0.126 | 0.309 | 0.122 | 0.057 | 0.435 | 0.248 | 0.183 | N/A | N/A |
| LTE Band 4 QPSK (20MHz) | Left-Cheek | 1 | 0.221 | 0.306 | 0.205 | **0.095** | 0.527 | 0.426 | 0.316 | N/A | N/A |
| | | 50 | 0.219 | 0.306 | 0.104 | **0.095** | 0.525 | 0.323 | 0.314 | N/A | N/A |
| | Left-Tilt | 1 | 0.163 | 0.265 | **0.22** | 0.056 | 0.428 | 0.383 | 0.219 | N/A | N/A |
| | | 50 | 0.162 | 0.265 | 0.122 | 0.056 | 0.427 | 0.284 | 0.218 | N/A | N/A |
| | Right-Cheek | 1 | **0.256** | **0.344** | 0.205 | 0.092 | 0.600 | 0.461 | 0.348 | N/A | N/A |
| | | 50 | 0.241 | **0.344** | 0.104 | 0.092 | 0.585 | 0.345 | 0.333 | N/A | N/A |
| | Right-Tilt | 1 | 0.146 | 0.309 | **0.22** | 0.057 | 0.455 | 0.366 | 0.203 | N/A | N/A |
| | | 50 | 0.134 | 0.309 | 0.122 | 0.057 | 0.443 | 0.256 | 0.191 | N/A | N/A |
| LTE Band 5 QPSK (10MHz) | Left-Cheek | 1 | **0.127** | 0.306 | 0.205 | **0.095** | 0.433 | 0.332 | 0.222 | N/A | N/A |
| | | 25 | 0.123 | 0.306 | 0.104 | **0.095** | 0.429 | 0.227 | 0.218 | N/A | N/A |
| | Left-Tilt | 1 | 0.106 | 0.265 | **0.22** | 0.056 | 0.371 | 0.326 | 0.162 | N/A | N/A |
| | | 25 | 0.104 | 0.265 | 0.122 | 0.056 | 0.369 | 0.226 | 0.160 | N/A | N/A |
| | Right-Cheek | 1 | 0.123 | **0.344** | 0.205 | 0.092 | 0.467 | 0.328 | 0.215 | N/A | N/A |
| | | 25 | 0.122 | **0.344** | 0.104 | 0.092 | 0.466 | 0.226 | 0.214 | N/A | N/A |
| | Right-Tilt | 1 | 0.103 | 0.309 | **0.22** | 0.057 | 0.412 | 0.323 | 0.160 | N/A | N/A |
| | | 25 | 0.103 | 0.309 | 0.122 | 0.057 | 0.412 | 0.225 | 0.160 | N/A | N/A |
| LTE Band 7 QPSK (20MHz) | Left-Cheek | 1 | **0.133** | 0.306 | 0.205 | **0.095** | 0.439 | 0.338 | 0.228 | N/A | N/A |
| | | 50 | 0.128 | 0.306 | 0.104 | **0.095** | 0.434 | 0.232 | 0.223 | N/A | N/A |
| | Left-Tilt | 1 | 0.073 | 0.265 | **0.22** | 0.056 | 0.338 | 0.293 | 0.129 | N/A | N/A |
| | | 50 | 0.069 | 0.265 | 0.122 | 0.056 | 0.334 | 0.191 | 0.125 | N/A | N/A |
| | Right-Cheek | 1 | 0.122 | **0.344** | 0.205 | 0.092 | 0.466 | 0.327 | 0.214 | N/A | N/A |
| | | 50 | 0.116 | **0.344** | 0.104 | 0.092 | 0.460 | 0.220 | 0.208 | N/A | N/A |
| | Right-Tilt | 1 | 0.071 | 0.309 | **0.22** | 0.057 | 0.380 | 0.291 | 0.128 | N/A | N/A |
| | | 50 | 0.066 | 0.309 | 0.122 | 0.057 | 0.375 | 0.188 | 0.123 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 12 QPSK (10MHz) | Left-Cheek | 1 | 0.197 | 0.306 | 0.205 | **0.095** | 0.503 | 0.402 | 0.292 | N/A | N/A |
| | | 25 | 0.198 | 0.306 | 0.104 | **0.095** | 0.504 | 0.302 | 0.293 | N/A | N/A |
| | Left-Tilt | 1 | 0.137 | 0.265 | **0.220** | 0.056 | 0.402 | 0.357 | 0.193 | N/A | N/A |
| | | 25 | 0.136 | 0.265 | 0.122 | 0.056 | 0.401 | 0.258 | 0.192 | N/A | N/A |
| | Right-Cheek | 1 | **0.201** | **0.344** | 0.205 | 0.092 | 0.545 | 0.406 | 0.293 | N/A | N/A |
| | | 25 | 0.199 | **0.344** | 0.104 | 0.092 | 0.543 | 0.303 | 0.291 | N/A | N/A |
| | Right-Tilt | 1 | 0.142 | 0.309 | **0.220** | 0.057 | 0.451 | 0.362 | 0.199 | N/A | N/A |
| | | 25 | 0.139 | 0.309 | 0.122 | 0.057 | 0.448 | 0.261 | 0.196 | N/A | N/A |
| LTE Band 17 QPSK (10MHz) | Left-Cheek | 1 | 0.189 | 0.306 | 0.205 | **0.095** | 0.495 | 0.394 | 0.284 | N/A | N/A |
| | | 25 | 0.188 | 0.306 | 0.104 | **0.095** | 0.494 | 0.292 | 0.283 | N/A | N/A |
| | Left-Tilt | 1 | 0.119 | 0.265 | **0.220** | 0.056 | 0.384 | 0.339 | 0.175 | N/A | N/A |
| | | 25 | 0.115 | 0.265 | 0.122 | 0.056 | 0.380 | 0.237 | 0.171 | N/A | N/A |
| | Right-Cheek | 1 | **0.192** | **0.344** | 0.205 | 0.092 | 0.536 | 0.397 | 0.284 | N/A | N/A |
| | | 25 | 0.190 | **0.344** | 0.104 | 0.092 | 0.534 | 0.294 | 0.282 | N/A | N/A |
| | Right-Tilt | 1 | 0.120 | 0.309 | **0.220** | 0.057 | 0.429 | 0.340 | 0.177 | N/A | N/A |
| | | 25 | 0.118 | 0.309 | 0.122 | 0.057 | 0.427 | 0.240 | 0.175 | N/A | N/A |
| LTE Band 25 QPSK (20MHz) | Left-Cheek | 1 | **0.248** | 0.306 | 0.205 | **0.095** | 0.554 | 0.453 | 0.343 | N/A | N/A |
| | | 50 | 0.231 | 0.306 | 0.104 | **0.095** | 0.537 | 0.335 | 0.326 | N/A | N/A |
| | Left-Tilt | 1 | 0.121 | 0.265 | **0.220** | 0.056 | 0.386 | 0.341 | 0.177 | N/A | N/A |
| | | 50 | 0.113 | 0.265 | 0.122 | 0.056 | 0.378 | 0.235 | 0.169 | N/A | N/A |
| | Right-Cheek | 1 | 0.215 | **0.344** | 0.205 | 0.092 | 0.559 | 0.420 | 0.307 | N/A | N/A |
| | | 50 | 0.197 | **0.344** | 0.104 | 0.092 | 0.541 | 0.301 | 0.289 | N/A | N/A |
| | Right-Tilt | 1 | 0.127 | 0.309 | **0.220** | 0.057 | 0.436 | 0.347 | 0.184 | N/A | N/A |
| | | 50 | 0.119 | 0.309 | 0.122 | 0.057 | 0.428 | 0.241 | 0.176 | N/A | N/A |
| LTE Band 26 QPSK (15MHz) | Left-Cheek | 1 | **0.103** | 0.306 | 0.205 | **0.095** | 0.409 | 0.308 | 0.198 | N/A | N/A |
| | | 36 | 0.097 | 0.306 | 0.104 | **0.095** | 0.403 | 0.201 | 0.192 | N/A | N/A |
| | Left-Tilt | 1 | 0.057 | 0.265 | **0.220** | 0.056 | 0.322 | 0.277 | 0.113 | N/A | N/A |
| | | 36 | 0.057 | 0.265 | 0.122 | 0.056 | 0.322 | 0.179 | 0.113 | N/A | N/A |
| | Right-Cheek | 1 | 0.101 | **0.344** | 0.205 | 0.092 | 0.445 | 0.306 | 0.193 | N/A | N/A |
| | | 36 | 0.102 | **0.344** | 0.104 | 0.092 | 0.446 | 0.206 | 0.194 | N/A | N/A |
| | Right-Tilt | 1 | 0.059 | 0.309 | **0.220** | 0.057 | 0.368 | 0.279 | 0.116 | N/A | N/A |
| | | 36 | 0.060 | 0.309 | 0.122 | 0.057 | 0.369 | 0.182 | 0.117 | N/A | N/A |
| LTE Band 38 QPSK (20MHz) | Left-Cheek | 1 | **0.090** | 0.306 | 0.205 | **0.095** | 0.396 | 0.295 | 0.185 | N/A | N/A |
| | | 50 | 0.087 | 0.306 | 0.104 | **0.095** | 0.393 | 0.191 | 0.182 | N/A | N/A |
| | Left-Tilt | 1 | 0.056 | 0.265 | **0.220** | 0.056 | 0.321 | 0.276 | 0.112 | N/A | N/A |
| | | 50 | 0.054 | 0.265 | 0.122 | 0.056 | 0.319 | 0.176 | 0.110 | N/A | N/A |
| | Right-Cheek | 1 | 0.089 | **0.344** | 0.205 | 0.092 | 0.433 | 0.294 | 0.181 | N/A | N/A |
| | | 50 | 0.085 | **0.344** | 0.104 | 0.092 | 0.429 | 0.189 | 0.177 | N/A | N/A |
| | Right-Tilt | 1 | 0.054 | 0.309 | **0.220** | 0.057 | 0.363 | 0.274 | 0.111 | N/A | N/A |
| | | 50 | 0.052 | 0.309 | 0.122 | 0.057 | 0.361 | 0.174 | 0.109 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 41 QPSK (20MHz) | Left-Cheek | 1 | **0.170** | 0.306 | 0.205 | **0.095** | 0.476 | 0.375 | 0.265 | N/A | N/A |
| | | 50 | 0.168 | 0.306 | 0.104 | **0.095** | 0.474 | 0.272 | 0.263 | N/A | N/A |
| | Left-Tilt | 1 | 0.104 | 0.265 | **0.220** | 0.056 | 0.369 | 0.324 | 0.160 | N/A | N/A |
| | | 50 | 0.109 | 0.265 | 0.122 | 0.056 | 0.374 | 0.231 | 0.165 | N/A | N/A |
| | Right-Cheek | 1 | 0.163 | **0.344** | 0.205 | 0.092 | 0.507 | 0.368 | 0.255 | N/A | N/A |
| | | 50 | 0.164 | **0.344** | 0.104 | 0.092 | 0.508 | 0.268 | 0.256 | N/A | N/A |
| | Right-Tilt | 1 | 0.103 | 0.309 | **0.220** | 0.057 | 0.412 | 0.323 | 0.160 | N/A | N/A |
| | | 50 | 0.107 | 0.309 | 0.122 | 0.057 | 0.416 | 0.229 | 0.164 | N/A | N/A |
| LTE Band 66 QPSK (20MHz) | Left-Cheek | 1 | 0.370 | 0.306 | 0.205 | **0.095** | 0.676 | 0.575 | 0.465 | N/A | N/A |
| | | 50 | 0.277 | 0.306 | 0.104 | **0.095** | 0.583 | 0.381 | 0.372 | N/A | N/A |
| | Left-Tilt | 1 | 0.256 | 0.265 | **0.220** | 0.056 | 0.521 | 0.476 | 0.312 | N/A | N/A |
| | | 50 | 0.173 | 0.265 | 0.122 | 0.056 | 0.438 | 0.295 | 0.229 | N/A | N/A |
| | Right-Cheek | 1 | **0.395** | **0.344** | 0.205 | 0.092 | 0.739 | 0.600 | 0.487 | N/A | N/A |
| | | 50 | 0.302 | **0.344** | 0.104 | 0.092 | 0.646 | 0.406 | 0.394 | N/A | N/A |
| | Right-Tilt | 1 | 0.286 | 0.309 | **0.220** | 0.057 | 0.595 | 0.506 | 0.343 | N/A | N/A |
| | | 50 | 0.203 | 0.309 | 0.122 | 0.057 | 0.512 | 0.325 | 0.260 | N/A | N/A |

## Hotspot/body-worn

| Band | Test Position | Scaled SAR | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| | | WWAN | WIFI 2.4G | WIFI 5G | BT | | | | | |
| GSM850 (GPRS 4slots) | Front | 0.302 | **0.213** | **0.259** | 0.184 | 0.515 | 0.561 | 0.486 | N/A | N/A |
| | Back | **0.538** | 0.166 | 0.108 | 0.184 | 0.704 | 0.646 | 0.722 | N/A | N/A |
| | Left | 0.329 | / | / | / | 0.329 | 0.329 | 0.329 | N/A | N/A |
| | Right | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 0.344 | / | / | / | 0.344 | 0.344 | 0.344 | N/A | N/A |
| GSM1900 (GPRS 2slots) | Front | 0.673 | **0.213** | **0.259** | 0.184 | 0.886 | 0.932 | 0.857 | N/A | N/A |
| | Back | **0.685** | 0.166 | 0.108 | 0.184 | 0.851 | 0.793 | 0.869 | N/A | N/A |
| | Left | 0.474 | / | / | / | 0.474 | 0.474 | 0.474 | N/A | N/A |
| | Right | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 0.526 | / | / | / | 0.526 | 0.526 | 0.526 | N/A | N/A |
| WCDMA Band II | Front | 0.702 | **0.213** | **0.259** | 0.184 | 0.915 | 0.961 | 0.886 | N/A | N/A |
| | Back | **0.717** | 0.166 | 0.108 | 0.184 | 0.883 | 0.825 | 0.901 | N/A | N/A |
| | Left | 0.499 | / | / | / | 0.499 | 0.499 | 0.499 | N/A | N/A |
| | Right | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 0.623 | / | / | / | 0.623 | 0.623 | 0.623 | N/A | N/A |
| WCDMA Band IV | Front | 0.761 | **0.213** | **0.259** | 0.184 | 0.974 | 1.020 | 0.945 | N/A | N/A |
| | Back | **0.978** | 0.166 | 0.108 | 0.184 | 1.144 | 1.086 | **1.162** | N/A | N/A |
| | Left | 0.723 | / | / | / | 0.723 | 0.723 | 0.723 | N/A | N/A |
| | Right | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 0.795 | / | / | / | 0.795 | 0.795 | 0.795 | N/A | N/A |
| WCDMA Band V | Front | 0.146 | **0.213** | **0.259** | 0.184 | 0.359 | 0.405 | 0.330 | N/A | N/A |
| | Back | **0.303** | 0.166 | 0.108 | 0.184 | 0.469 | 0.411 | 0.487 | N/A | N/A |
| | Left | 0.121 | / | / | / | 0.121 | 0.121 | 0.121 | N/A | N/A |
| | Right | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 0.150 | / | / | / | 0.150 | 0.150 | 0.150 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 2 QPSK (20MHz) | Front | 1 | 0.450 | **0.213** | **0.259** | 0.184 | 0.663 | 0.709 | 0.634 | N/A | N/A |
| | | 50 | 0.438 | **0.213** | **0.259** | 0.184 | 0.651 | 0.697 | 0.622 | N/A | N/A |
| | Back | 1 | **0.535** | 0.166 | 0.108 | 0.184 | 0.701 | 0.643 | 0.719 | N/A | N/A |
| | | 50 | 0.517 | 0.166 | 0.108 | 0.184 | 0.683 | 0.625 | 0.701 | N/A | N/A |
| | Left | 1 | 0.204 | / | / | / | 0.204 | 0.204 | 0.204 | N/A | N/A |
| | | 50 | 0.189 | / | / | / | 0.189 | 0.189 | 0.189 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.141 | / | / | / | 0.141 | 0.141 | 0.141 | N/A | N/A |
| | | 50 | 0.135 | / | / | / | 0.135 | 0.135 | 0.135 | N/A | N/A |
| LTE Band 4 QPSK (20MHz) | Front | 1 | 0.394 | **0.213** | **0.259** | 0.184 | 0.607 | 0.653 | 0.578 | N/A | N/A |
| | | 50 | 0.389 | **0.213** | **0.259** | 0.184 | 0.602 | 0.648 | 0.573 | N/A | N/A |
| | Back | 1 | **0.633** | 0.166 | 0.108 | 0.184 | 0.799 | 0.741 | 0.817 | N/A | N/A |
| | | 50 | 0.631 | 0.166 | 0.108 | 0.184 | 0.797 | 0.739 | 0.815 | N/A | N/A |
| | Left | 1 | 0.217 | / | / | / | 0.217 | 0.217 | 0.217 | N/A | N/A |
| | | 50 | 0.214 | / | / | / | 0.214 | 0.214 | 0.214 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.146 | / | / | / | 0.146 | 0.146 | 0.146 | N/A | N/A |
| | | 50 | 0.134 | / | / | / | 0.134 | 0.134 | 0.134 | N/A | N/A |
| LTE Band 5 QPSK (10MHz) | Front | 1 | 0.172 | **0.213** | **0.259** | 0.184 | 0.385 | 0.431 | 0.356 | N/A | N/A |
| | | 25 | 0.170 | **0.213** | **0.259** | 0.184 | 0.383 | 0.429 | 0.354 | N/A | N/A |
| | Back | 1 | **0.219** | 0.166 | 0.108 | 0.184 | 0.385 | 0.327 | 0.403 | N/A | N/A |
| | | 25 | 0.207 | 0.166 | 0.108 | 0.184 | 0.373 | 0.315 | 0.391 | N/A | N/A |
| | Left | 1 | 0.171 | / | / | / | 0.171 | 0.171 | 0.171 | N/A | N/A |
| | | 25 | 0.168 | / | / | / | 0.168 | 0.168 | 0.168 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 25 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 25 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.112 | / | / | / | 0.112 | 0.112 | 0.112 | N/A | N/A |
| | | 25 | 0.107 | / | / | / | 0.107 | 0.107 | 0.107 | N/A | N/A |
| LTE Band 7 QPSK (20MHz) | Front | 1 | 0.402 | **0.213** | **0.259** | 0.184 | 0.615 | 0.661 | 0.586 | N/A | N/A |
| | | 50 | 0.372 | **0.213** | **0.259** | 0.184 | 0.585 | 0.631 | 0.556 | N/A | N/A |
| | Back | 1 | **0.529** | 0.166 | 0.108 | 0.184 | 0.695 | 0.637 | 0.713 | N/A | N/A |
| | | 50 | 0.508 | 0.166 | 0.108 | 0.184 | 0.674 | 0.616 | 0.692 | N/A | N/A |
| | Left | 1 | 0.332 | / | / | / | 0.332 | 0.332 | 0.332 | N/A | N/A |
| | | 50 | 0.314 | / | / | / | 0.314 | 0.314 | 0.314 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.259 | / | / | / | 0.259 | 0.259 | 0.259 | N/A | N/A |
| | | 50 | 0.236 | / | / | / | 0.236 | 0.236 | 0.236 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 12 QPSK (10MHz) | Front | 1 | 0.325 | **0.213** | **0.259** | 0.184 | 0.538 | 0.584 | 0.509 | N/A | N/A |
| | | 25 | 0.325 | **0.213** | **0.259** | 0.184 | 0.538 | 0.584 | 0.509 | N/A | N/A |
| | Back | 1 | **0.437** | 0.166 | 0.108 | 0.184 | 0.603 | 0.545 | 0.621 | N/A | N/A |
| | | 25 | 0.436 | 0.166 | 0.108 | 0.184 | 0.602 | 0.544 | 0.620 | N/A | N/A |
| | Left | 1 | 0.309 | / | / | / | 0.309 | 0.309 | 0.309 | N/A | N/A |
| | | 25 | 0.307 | / | / | / | 0.307 | 0.307 | 0.307 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 25 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 25 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.226 | / | / | / | 0.226 | 0.226 | 0.226 | N/A | N/A |
| | | 25 | 0.223 | / | / | / | 0.223 | 0.223 | 0.223 | N/A | N/A |
| LTE Band 17 QPSK (10MHz) | Front | 1 | 0.302 | **0.213** | **0.259** | 0.184 | 0.515 | 0.561 | 0.486 | N/A | N/A |
| | | 25 | 0.300 | **0.213** | **0.259** | 0.184 | 0.513 | 0.559 | 0.484 | N/A | N/A |
| | Back | 1 | **0.420** | 0.166 | 0.108 | 0.184 | 0.586 | 0.528 | 0.604 | N/A | N/A |
| | | 25 | 0.415 | 0.166 | 0.108 | 0.184 | 0.581 | 0.523 | 0.599 | N/A | N/A |
| | Left | 1 | 0.264 | / | / | / | 0.264 | 0.264 | 0.264 | N/A | N/A |
| | | 25 | 0.257 | / | / | / | 0.257 | 0.257 | 0.257 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 25 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 25 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.194 | / | / | / | 0.194 | 0.194 | 0.194 | N/A | N/A |
| | | 25 | 0.189 | / | / | / | 0.189 | 0.189 | 0.189 | N/A | N/A |
| LTE Band 25 QPSK (20MHz) | Front | 1 | 0.718 | **0.213** | **0.259** | 0.184 | 0.931 | 0.977 | 0.902 | N/A | N/A |
| | | 50 | 0.694 | **0.213** | **0.259** | 0.184 | 0.907 | 0.953 | 0.878 | N/A | N/A |
| | Back | 1 | **0.750** | 0.166 | 0.108 | 0.184 | 0.916 | 0.858 | 0.934 | N/A | N/A |
| | | 50 | 0.723 | 0.166 | 0.108 | 0.184 | 0.889 | 0.831 | 0.907 | N/A | N/A |
| | Left | 1 | 0.587 | / | / | / | 0.587 | 0.587 | 0.587 | N/A | N/A |
| | | 50 | 0.565 | / | / | / | 0.565 | 0.565 | 0.565 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.457 | / | / | / | 0.457 | 0.457 | 0.457 | N/A | N/A |
| | | 50 | 0.439 | / | / | / | 0.439 | 0.439 | 0.439 | N/A | N/A |
| LTE Band 26 QPSK (15MHz) | Front | 1 | 0.28 | **0.213** | **0.259** | 0.184 | 0.493 | 0.539 | 0.464 | N/A | N/A |
| | | 36 | 0.283 | **0.213** | **0.259** | 0.184 | 0.496 | 0.542 | 0.467 | N/A | N/A |
| | Back | 1 | **0.297** | 0.166 | 0.108 | 0.184 | 0.463 | 0.405 | 0.481 | N/A | N/A |
| | | 36 | 0.288 | 0.166 | 0.108 | 0.184 | 0.454 | 0.396 | 0.472 | N/A | N/A |
| | Left | 1 | 0.105 | / | / | / | 0.105 | 0.105 | 0.105 | N/A | N/A |
| | | 36 | 0.103 | / | / | / | 0.103 | 0.103 | 0.103 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 36 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 36 | / | 0.125 | 0.119 | 0.086 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.191 | / | / | / | 0.191 | 0.191 | 0.191 | N/A | N/A |
| | | 36 | 0.188 | / | / | / | 0.188 | 0.188 | 0.188 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 38 QPSK (20MHz) | Front | 1 | 0.174 | **0.213** | **0.259** | 0.184 | 0.387 | 0.433 | 0.358 | N/A | N/A |
| | | 50 | 0.164 | **0.213** | **0.259** | 0.184 | 0.377 | 0.423 | 0.348 | N/A | N/A |
| | Back | 1 | **0.220** | 0.166 | 0.108 | 0.184 | 0.386 | 0.328 | 0.404 | N/A | N/A |
| | | 50 | 0.207 | 0.166 | 0.108 | 0.184 | 0.373 | 0.315 | 0.391 | N/A | N/A |
| | Left | 1 | 0.203 | / | / | / | 0.203 | 0.203 | 0.203 | N/A | N/A |
| | | 50 | 0.192 | / | / | / | 0.192 | 0.192 | 0.192 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.086 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.132 | / | / | / | 0.132 | 0.132 | 0.132 | N/A | N/A |
| | | 50 | 0.125 | / | / | / | 0.125 | 0.125 | 0.125 | N/A | N/A |
| LTE Band 41 QPSK (20MHz) | Front | 1 | 0.478 | **0.213** | **0.259** | 0.184 | 0.691 | 0.737 | 0.662 | N/A | N/A |
| | | 50 | 0.497 | **0.213** | **0.259** | 0.184 | 0.710 | 0.756 | 0.681 | N/A | N/A |
| | Back | 1 | **0.543** | 0.166 | 0.108 | 0.184 | 0.709 | 0.651 | 0.727 | N/A | N/A |
| | | 50 | 0.530 | 0.166 | 0.108 | 0.184 | 0.696 | 0.638 | 0.714 | N/A | N/A |
| | Left | 1 | 0.309 | / | / | / | 0.309 | 0.309 | 0.309 | N/A | N/A |
| | | 50 | 0.327 | / | / | / | 0.327 | 0.327 | 0.327 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.086 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | / | / | / | / | / | / | / | N/A | N/A |
| | | 50 | / | / | / | / | / | / | / | N/A | N/A |
| LTE Band 66 QPSK (20MHz) | Front | 1 | 0.691 | **0.213** | **0.259** | 0.184 | 0.904 | 0.950 | 0.875 | N/A | N/A |
| | | 50 | 0.570 | **0.213** | **0.259** | 0.184 | 0.783 | 0.829 | 0.754 | N/A | N/A |
| | Back | 1 | **0.752** | 0.166 | 0.108 | 0.184 | 0.918 | 0.860 | 0.936 | N/A | N/A |
| | | 50 | 0.624 | 0.166 | 0.108 | 0.184 | 0.790 | 0.732 | 0.808 | N/A | N/A |
| | Left | 1 | 0.354 | / | / | / | 0.354 | 0.354 | 0.354 | N/A | N/A |
| | | 50 | 0.264 | / | / | / | 0.264 | 0.264 | 0.264 | N/A | N/A |
| | Right | 1 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | | 50 | / | 0.163 | 0.110 | 0.184 | 0.163 | 0.110 | 0.184 | N/A | N/A |
| | Top | 1 | / | 0.125 | 0.119 | 0.184 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | | 50 | / | 0.125 | 0.119 | 0.086 | 0.125 | 0.119 | 0.184 | N/A | N/A |
| | Bottom | 1 | 0.327 | / | / | / | 0.327 | 0.327 | 0.327 | N/A | N/A |
| | | 50 | 0.240 | / | / | / | 0.240 | 0.240 | 0.240 | N/A | N/A |

## Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore measured volumetric simultaneous SAR summation is not required per FCC KDB Publication 447498 D01v05r02.

## 10.4. Measurement Uncertainty (450MHz-3GHz)

| UNCERTAINTY EVALUATION FOR HEADSET SAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Uncertainty Component | Description | Uncertainty Value(%) | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. 1g(%) | Std. Unc. 10g(%) | v |
| **Measurement system** | | | | | | | | | |
| Probe calibration | 7.2.1 | 5.8 | N | 1 | 1 | 1 | 5.8 | 5.8 | ∞ |
| Axial isotropy | 7.2.1.1 | 3.5 | R | $\sqrt{3}$ | $(1\text{-}C_p)^{1/2}$ | $(1\text{-}C_p)^{1/2}$ | 1.43 | 1.43 | ∞ |
| Hemispherical isotropy | 7.2.1.1 | 5.9 | R | $\sqrt{3}$ | $\sqrt{C_p}$ | $\sqrt{C_p}$ | 2.41 | 2.41 | ∞ |
| Boundary Effects | 7.2.1.4 | 1.00 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Linearity | 7.2.1.2 | 4.70 | R | $\sqrt{3}$ | 1 | 1 | 2.71 | 2.71 | ∞ |
| System detection limits | 7.2.1.2 | 1 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Modulation Response | 7.2.1.3 | 3 | N | 1 | 1 | 1 | 3.00 | 3.00 | ∞ |
| Readout Electronics | 7.2.1.5 | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | ∞ |
| Response Time | 7.2.1.6 | 0 | R | $\sqrt{3}$ | 1 | 1 | 0.00 | 0.00 | ∞ |
| Integration Time | 7.2.1.7 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| RF Ambient Conditions-Noise | 7.2.3.7 | 3 | R | $\sqrt{3}$ | 1 | 1 | 1.73 | 1.73 | ∞ |
| RF Ambient Conditions-Reflection | 7.2.3.7 | 3 | R | $\sqrt{3}$ | 1 | 1 | 1.73 | 1.73 | ∞ |
| Probe positioned mechanical Tolerance | 7.2.2.1 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Probe positioning with respect to phantom shell | 7.2.2.3 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Extrapolation interpolation and integration algorithms for Max.SAR evaluation | 7.2.4 | 2.3 | R | 1 | 1 | 1 | 1.33 | 1.33 | ∞ |
| **Test sample related** | | | | | | | | | |
| Test sample positioning | 7.2.2.4.4 | 2.6 | N | 1 | 1 | 1 | 2.60 | 2.60 | ∞ |
| Device holder uncertainty | 7.2.2.4.2 7.2.2.4.3 | 3 | N | 1 | 1 | 1 | 3.00 | 3.00 | ∞ |
| output power variation-SAR drift measurement | 7.2.3.6 | 5 | R | $\sqrt{3}$ | 1 | 1 | 2.89 | 2.89 | ∞ |
| SAR scaling | 7.2.5 | 2 | R | $\sqrt{3}$ | 1 | 1 | 1.15 | 1.15 | ∞ |
| **Phantom and tissue parameters** | | | | | | | | | |
| Phantom uncertainty (shape and thickness tolerances) | 7.2.2.2 | 4 | R | $\sqrt{3}$ | 1 | 1 | 2.31 | 2.31 | ∞ |
| uncertainty in SAR correction for deviation (in permittivity and conductivity) | 7.2.6 | 2 | N | 1 | 1 | 0.84 | 2.00 | 1.68 | ∞ |
| Liquid conductivity (temperature uncertainty) | 7.2.3.5 | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | ∞ |
| Liquid conductivity -measurement uncertainty | 7.2.3.3 | 4 | N | 1 | 0.23 | 0.26 | 0.92 | 1.04 | ∞ |
| Liquid permittivity (temperature uncertainty) | 7.2.3.5 | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | ∞ |
| Liquid permittivity measurement uncertainty | 7.2.3.4 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | ∞ |
| Combined standard uncertainty | | | RSS | | | | 10.83 | 10.54 | |
| Expanded uncertainty (95%CONFIDENCEINTERVAL | | | k | | | | 21.26 | 21.08 | |

## UNCERTAINTY FOR PERFORMANCE CHECK

| Uncertainty Component | Description | Uncertainty Value(%) | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. 1g(%) | Std. Unc. 10g(%) | v |
|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | |
| Probe calibration | 7.2.1 | 5.8 | N | 1 | 1 | 1 | 5.8 | 5.8 | ∞ |
| Axial isotropy | 7.2.1.1 | 3.5 | R | $\sqrt{3}$ | $(1\text{-}C_p)^{1/2}$ | $(1\text{-}C_p)^{1/2}$ | 1.43 | 1.43 | ∞ |
| Hemispherical isotropy | 7.2.1.1 | 5.9 | R | $\sqrt{3}$ | $\sqrt{C_p}$ | $\sqrt{C_p}$ | 2.41 | 2.41 | ∞ |
| Boundary Effects | 7.2.1.4 | 1.00 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Linearity | 7.2.1.2 | 4.70 | R | $\sqrt{3}$ | 1 | 1 | 2.71 | 2.71 | ∞ |
| System detection limits | 7.2.1.2 | 1 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Modulation Response | 7.2.1.3 | 3 | N | 1 | 1 | 1 | 0.00 | 0.00 | ∞ |
| Readout Electronics | 7.2.1.5 | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | ∞ |
| Response Time | 7.2.1.6 | 0 | R | $\sqrt{3}$ | 1 | 1 | 0.00 | 0.00 | ∞ |
| Integration Time | 7.2.1.7 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| RF Ambient Conditions-Noise | 7.2.3.7 | 3 | R | $\sqrt{3}$ | 1 | 1 | 1.73 | 1.73 | ∞ |
| RF Ambient Conditions-Reflection | 7.2.3.7 | 3 | R | $\sqrt{3}$ | 1 | 1 | 1.73 | 1.73 | ∞ |
| Probe positioned mechanical Tolerance | 7.2.2.1 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Probe positioning with respect to phantom shell | 7.2.2.3 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Extrapolation interpolation and integration algorithms for Max.SAR evaluation | 7.2.4 | 2.3 | R | 1 | 1 | 1 | 1.33 | 1.33 | ∞ |
| **Dipole** | | | | | | | | | |
| Deviation of experimental source from numerical source | | 4 | N | 1 | 1 | 1 | 4.00 | 4.00 | ∞ |
| Input power and SAR drift measurement | 7.2.3.6 | 5 | R | $\sqrt{3}$ | 1 | 1 | 2.89 | 2.89 | ∞ |
| Dipole axis to liquid distance | | 2 | R | $\sqrt{3}$ | 1 | 1 | | | ∞ |
| **Phantom and tissue parameters** | | | | | | | | | |
| Phantom uncertainty (shape and thickness tolerances) | 7.2.2.2 | 4 | R | $\sqrt{3}$ | 1 | 1 | 2.31 | 2.31 | ∞ |
| uncertainty in SAR correction for deviation (in permittivity and conductivity) | 7.2.6 | 2 | N | 1 | 1 | 0.84 | 2.00 | 1.68 | ∞ |
| Liquid conductivity (temperature uncertainty) | 7.2.3.5 | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | ∞ |
| Liquid conductivity -measurement uncertainty | 7.2.3.3 | 4 | N | 1 | 0.23 | 0.26 | 0.92 | 1.04 | ∞ |
| Liquid permittivity (temperature uncertainty) | 7.2.3.5 | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | ∞ |
| Liquid permittivity measurement uncertainty | 7.2.3.4 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | ∞ |
| Combined standard uncertainty | | | RSS | | | | 10.15 | 10.05 | |
| Expanded uncertainty (95%CONFIDENCEINTERVAL | | | k | | | | 20.29 | 20.10 | |

## 10.5. Test Equipment List

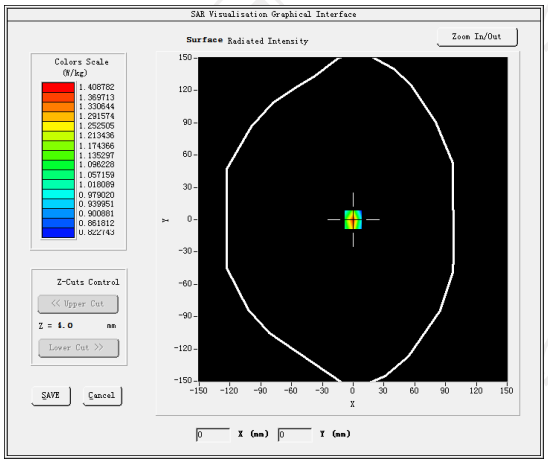
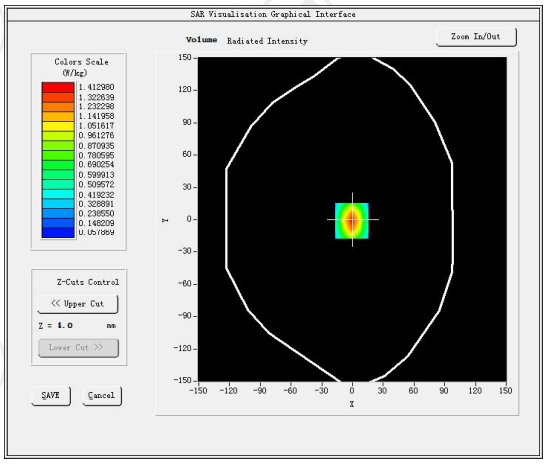
| Test Equipment | Manufacturer | Model | Serial Number | Calibration | |
|---|---|---|---|---|---|
| | | | | Calibration Date (D.M.Y) | Calibration Due (D.M.Y) |
| PC | Lenovo | H3050 | N/A | N/A | N/A |
| Signal Generator | Angilent | N5182A | MY47070282 | Jun. 08, 2022 | Jun. 07, 2023 |
| Multimeter | Keithley | Multimeter 2000 | 4078275 | Jun. 08, 2022 | Jun. 07, 2023 |
| Network Analyzer | Agilent | 8753E | US38432457 | Jun. 08, 2022 | Jun. 07, 2023 |
| Wireless Communication Test Set | R & S | CMU200 | 111382 | Jun. 08, 2022 | Jun. 07, 2023 |
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Meter | Agilent | E4418B | GB43312526 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Meter | Agilent | E4416A | MY45101555 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Meter | Agilent | N1912A | MY50001018 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Sensor | Agilent | E9301A | MY41497725 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Sensor | Agilent | E9327A | MY44421198 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Sensor | Agilent | E9323A | MY53070005 | Jun. 08, 2022 | Jun. 07, 2023 |
| Power Amplifier | PE | PE15A4019 | 112342 | N/A | N/A |
| Directional Coupler | Agilent | 722D | MY52180104 | N/A | N/A |
| Attenuator | Chensheng | FF779 | 134251 | N/A | N/A |
| E-Field PROBE | MVG | SSE2 | SN 36/20 EPGO346 | Oct. 08, 2022 | Oct. 07, 2023 |
| DIPOLE 750 | MVG | SID750 | SN 16/15 DIP 0G750-368 | Jun. 05, 2021 | Jun. 04, 2024 |
| DIPOLE 835 | MVG | SID835 | SN 16/15 DIP 0G835-369 | Jun. 05, 2022 | Jun. 04, 2023 |
| DIPOLE 1800 | MVG | SID 1800 | SN 16/15 DIP 1G800-371 | Jun. 05, 2022 | Jun. 04, 2023 |
| DIPOLE 1900 | MVG | SID1900 | SN 16/15 DIP 1G900-372 | Jun. 05, 2022 | Jun. 04, 2023 |
| DIPOLE 2450 | MVG | SID 2450 | SN 16/15 DIP 2G450-374 | Jun. 05, 2022 | Jun. 04, 2023 |
| DIPOLE 2600 | MVG | SID 2600 | SN 16/15 DIP 2G600-375 | Jun. 05, 2022 | Jun. 04, 2023 |
| DIPOLE 5200-5800 | MVG | SID 5000 | SN 13/14 WGA32 | May 15, 2022 | May 14, 2023 |
| Limesar Dielectric Probe | MVG | SCLMP | SN 19/15 OCPG71 | Jun. 05, 2022 | Jun. 04, 2023 |
| Communication Antenna | MVG | ANTA59 | SN 39/14 ANTA59 | N/A | N/A |
| Mobile Phone Position Device | MVG | MSH101 | SN 19/15 MSH101 | N/A | N/A |
| Dummy Probe | MVG | DP66 | SN 13/15 DP66 | N/A | N/A |
| SAM PHANTOM | MVG | SAM120 | SN 19/15 SAM120 | N/A | N/A |
| PHANTOM TABLE | MVG | TABP101 | SN 19/15 TABP101 | N/A | N/A |
| Robot TABLE | MVG | TABP61 | SN 19/15 TABP61 | N/A | N/A |
| 6 AXIS ROBOT | KUKA | KR6-R900 | 501822 | N/A | N/A |

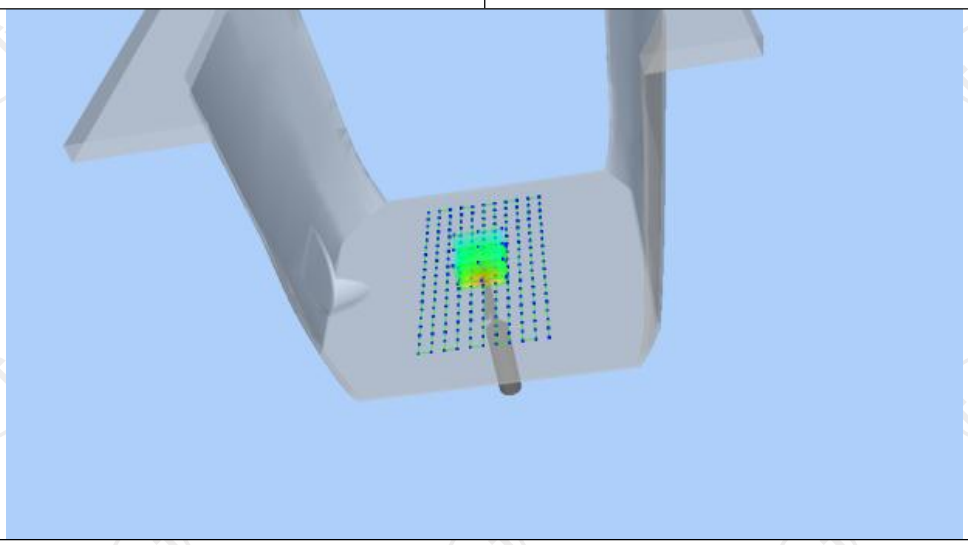
***Note:*** *1.N/A means this equipment no need to calibrate*
*2.Each Time means this device need to calibrate every use time*
*3. The dipole was not damaged properly repaired.*
*4. The measured SAR deviates from the calibrated SAR value by less than 10%*
*5. The most recent return-loss result meets the required 20 dB minimum return-loss requirement*
*6. The most recent measurement of the real or imaginary parts of the impedance deviates by less than 5 Ω from the previous measurement.*

# 11. System Check Results

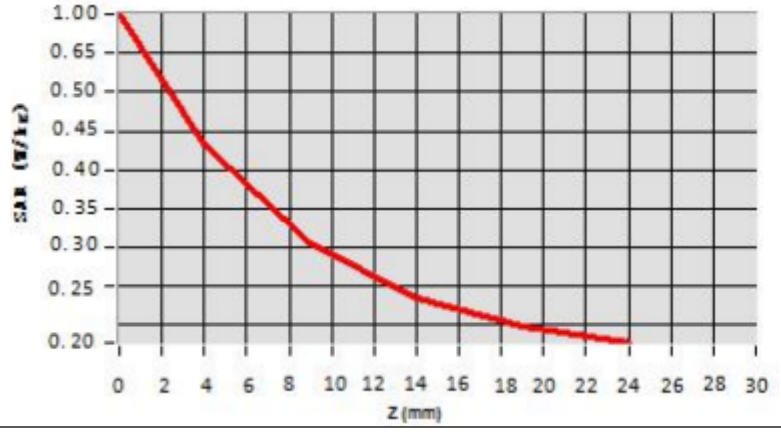
Date of measurement: 01/09/2023 Test mode: 750 (Body)
Product Description: Validation
Dipole Model: SID750
E-Field Probe: SSE2 (SN 36/20 EPGO346)

| Phantom | Validation plane |
|---|---|
| Input Power | 100mW |
| Crest Factor | 1.0 |
| Probe Conversion factor | 1.78 |
| Frequency (MHz) | 750.000000 |
| Relative permittivity (real part) | 56.121166 |
| Relative permittivity (imaginary part) | 20.148160 |
| Conductivity (S/m) | 0.921243 |
| Variation (%) | -0.150000 |
| **SAR 10g (W/Kg)** | 0.602014 |
| **SAR 1g (W/Kg)** | 0.872441 |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |



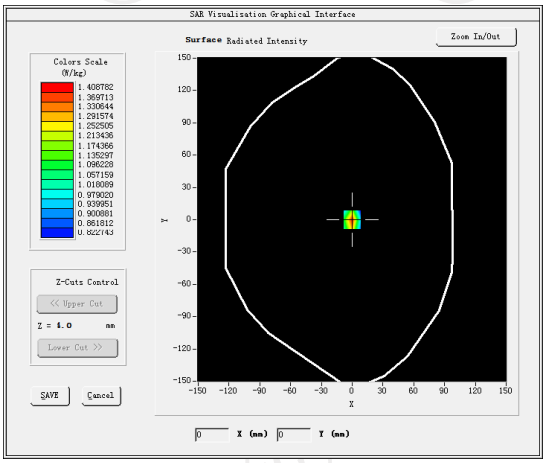
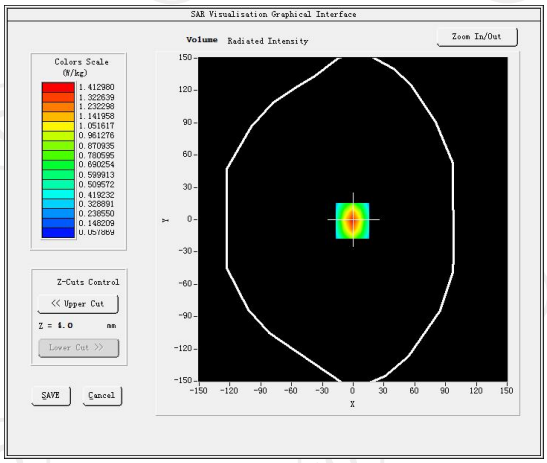
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|---|---|---|---|---|---|
| SAR (W/Kg) | 1.014 | 0.4420 | 0.3029 | 0.2419 | 0.2240 |

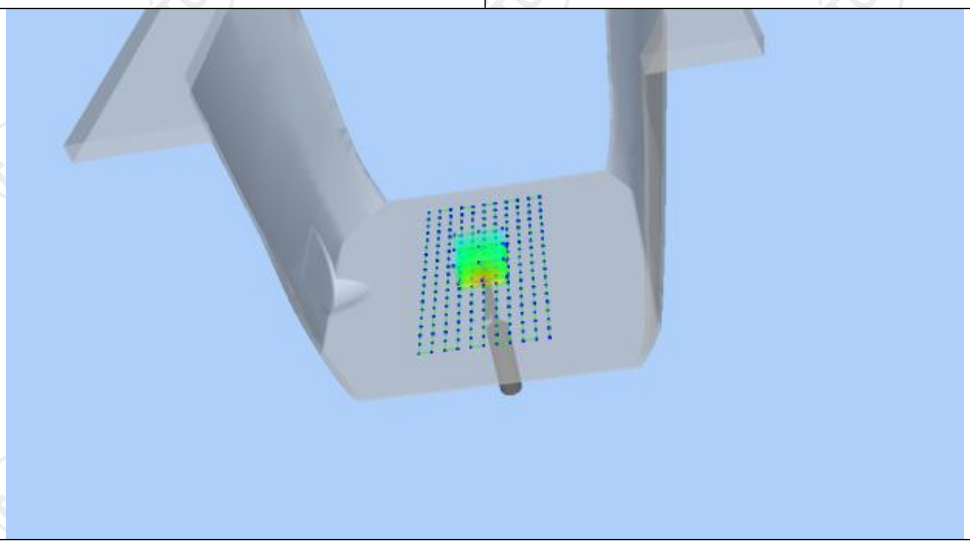



**Hot spot position**

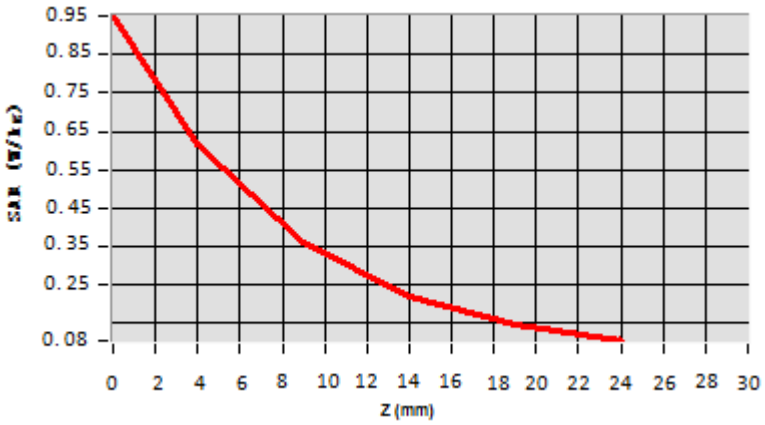
Date of measurement: 01/09/2023 Test mode: 835 (Body)
Product Description: Validation
Dipole Model: SID835
E-Field Probe: SSE2 (SN 36/20 EPGO346)

| Phantom | Validation plane |
|---|---|
| Input Power | 100mW |
| Crest Factor | 8.0 |
| Probe Conversion factor | 1.86 |
| Frequency (MHz) | 835.000000 |
| Relative permittivity (real part) | 55.242077 |
| Relative permittivity (imaginary part) | 21.378187 |
| Conductivity (S/m) | 0.938883 |
| Variation (%) | -0.150000 |
| **SAR 10g (W/Kg)** | **0.633123** |
| **SAR 1g (W/Kg)** | **0.949446** |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |



| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|---|---|---|---|---|---|
| SAR (W/Kg) | 0.9625 | 0.6022 | 0.3594 | 0.2202 | 0.0725 |



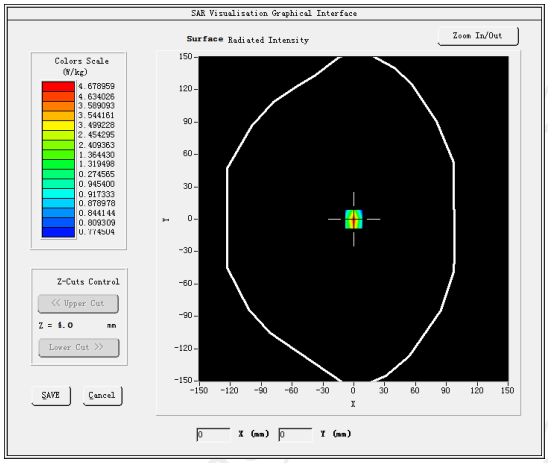
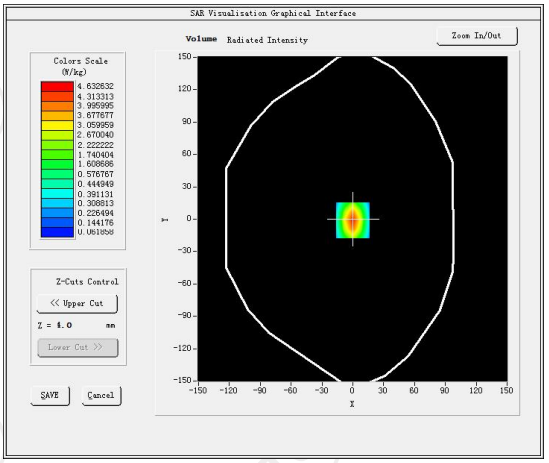

**Hot spot position**

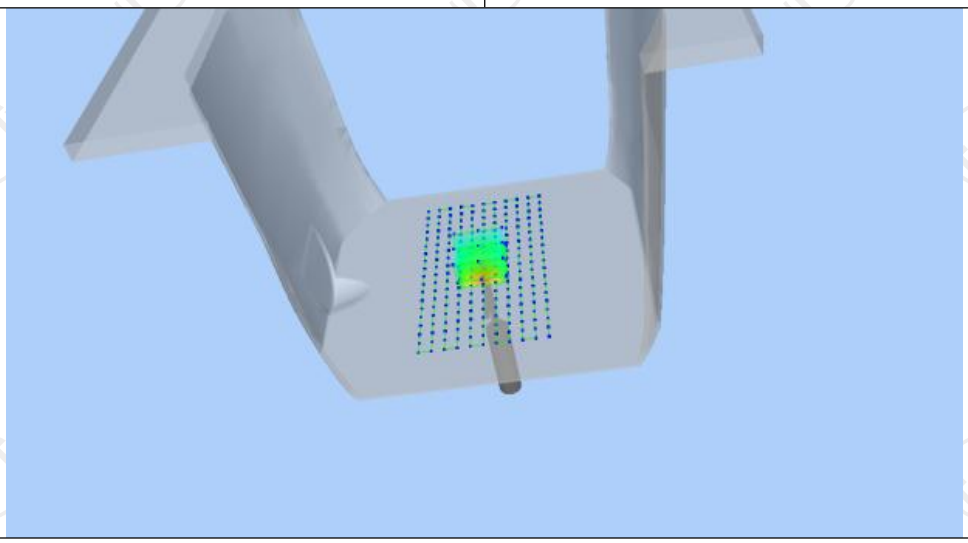


*Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com*

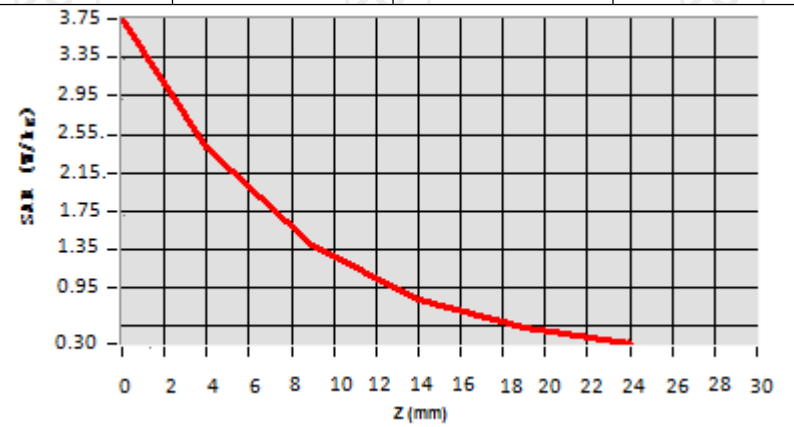
Date of measurement: 01/10/2023 Test mode: 1800MHz (Body)
Product Description: Validation
Dipole Model: SID1800
E-Field Probe: SSE2 (SN 36/20 EPGO346)

| Phantom | Validation plane |
|---|---|
| Input Power | 100mW |
| Crest Factor | 1.0 |
| Probe Conversion factor | 2.16 |
| Frequency (MHz) | 1800.000000 |
| Relative permittivity (real part) | 53.292699 |
| Relative permittivity (imaginary part) | 15.200000 |
| Conductivity (S/m) | 1.530000 |
| Variation (%) | 3.050000 |
| **SAR 10g (W/Kg)** | **2.053687** |
| **SAR 1g (W/Kg)** | **3.782547** |

| **SURFACE SAR** | **VOLUME SAR** |
|---|---|
|  |  |



| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|---|---|---|---|---|---|
| SAR (W/Kg) | 3.7545 | 2.4524 | 1.3520 | 0.8214 | 0.5525 |




**Hot spot position**