| LTE Band 38 Full Power/Receicer off/Receicer off+BT/WiFi 2.4G(Rec off)/WiFi 2.4G(Rec off)+BT/WiFi 5G(Rec off)/WiFi 5G(Rec off)+BT | | | | Conducted Power(dBm) | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37775 | Channel 38000 | Channel 38225 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 22.76 | 22.68 | 22.75 | 24.20 |
| | | 1 | 13 | 22.67 | 22.65 | 22.63 | 24.20 |
| | | 1 | 24 | 22.61 | 22.61 | 22.59 | 24.20 |
| | | 12 | 0 | 21.80 | 21.70 | 21.78 | 23.20 |
| | | 12 | 6 | 21.75 | 21.65 | 21.74 | 23.20 |
| | | 12 | 13 | 21.77 | 21.54 | 21.60 | 23.20 |
| | | 25 | 0 | 21.82 | 21.68 | 21.69 | 23.20 |
| | 16QAM | 1 | 0 | 22.19 | 21.92 | 22.08 | 23.50 |
| | | 1 | 13 | 22.02 | 22.02 | 21.99 | 23.50 |
| | | 1 | 24 | 21.94 | 21.99 | 21.95 | 23.50 |
| | | 12 | 0 | 20.70 | 20.62 | 20.73 | 22.50 |
| | | 12 | 6 | 20.64 | 20.62 | 20.63 | 22.50 |
| | | 12 | 13 | 20.81 | 20.57 | 20.59 | 22.50 |
| | | 25 | 0 | 20.66 | 20.62 | 20.64 | 22.50 |
| | 64QAM | 1 | 0 | 20.95 | 20.71 | 20.83 | 22.50 |
| | | 1 | 13 | 20.78 | 20.79 | 20.75 | 22.50 |
| | | 1 | 24 | 20.71 | 20.74 | 20.75 | 22.50 |
| | | 12 | 0 | 19.74 | 19.66 | 19.77 | 21.50 |
| | | 12 | 6 | 19.73 | 19.72 | 19.73 | 21.50 |
| | | 12 | 13 | 19.90 | 19.65 | 19.65 | 21.50 |
| | | 25 | 0 | 19.73 | 19.67 | 19.68 | 21.50 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37800 | Channel 38000 | Channel 38200 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 22.86 | 22.67 | 22.75 | 24.20 |
| | | 1 | 25 | 22.69 | 22.62 | 22.59 | 24.20 |
| | | 1 | 49 | 22.63 | 22.63 | 22.64 | 24.20 |
| | | 25 | 0 | 21.93 | 21.79 | 21.82 | 23.20 |
| | | 25 | 13 | 21.76 | 21.73 | 21.76 | 23.20 |
| | | 25 | 25 | 21.78 | 21.55 | 21.57 | 23.20 |
| | | 50 | 0 | 21.74 | 21.69 | 21.79 | 23.20 |
| | 16QAM | 1 | 0 | 22.16 | 21.98 | 22.24 | 23.50 |
| | | 1 | 25 | 21.97 | 21.76 | 21.81 | 23.50 |
| | | 1 | 49 | 21.91 | 21.99 | 21.99 | 23.50 |
| | | 25 | 0 | 20.91 | 20.59 | 20.75 | 22.50 |
| | | 25 | 13 | 20.70 | 20.63 | 20.70 | 22.50 |
| | | 25 | 25 | 20.76 | 20.54 | 20.50 | 22.50 |
| | | 50 | 0 | 20.57 | 20.59 | 20.68 | 22.50 |
| | 64QAM | 1 | 0 | 20.96 | 20.77 | 21.02 | 22.50 |
| | | 1 | 25 | 20.73 | 20.52 | 20.58 | 22.50 |
| | | 1 | 49 | 20.67 | 20.75 | 20.77 | 22.50 |
| | | 25 | 0 | 19.96 | 19.69 | 19.83 | 21.50 |
| | | 25 | 13 | 19.78 | 19.72 | 19.74 | 21.50 |
| | | 25 | 25 | 19.86 | 19.62 | 19.55 | 21.50 |
| | | 50 | 0 | 19.63 | 19.63 | 19.72 | 21.50 |



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| Bandwidth | Modulation | RB size | RB offset | Channel 37825 | Channel 38000 | Channel 38175 | Tune up |
|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 22.85 | 22.72 | 22.77 | 24.20 |
| | | 1 | 38 | 22.74 | 22.82 | 22.65 | 24.20 |
| | | 1 | 74 | 22.74 | 22.71 | 22.72 | 24.20 |
| | | 36 | 0 | 21.84 | 21.73 | 21.90 | 23.20 |
| | | 36 | 18 | 21.75 | 21.68 | 21.75 | 23.20 |
| | | 36 | 39 | 21.69 | 21.60 | 21.60 | 23.20 |
| | | 75 | 0 | 21.89 | 21.68 | 21.77 | 23.20 |
| | 16QAM | 1 | 0 | 22.13 | 21.98 | 22.09 | 23.50 |
| | | 1 | 38 | 22.01 | 22.19 | 22.12 | 23.50 |
| | | 1 | 74 | 21.96 | 21.99 | 22.08 | 23.50 |
| | | 36 | 0 | 20.81 | 20.65 | 20.88 | 22.50 |
| | | 36 | 18 | 20.68 | 20.67 | 20.77 | 22.50 |
| | | 36 | 39 | 20.68 | 20.58 | 20.91 | 22.50 |
| | | 75 | 0 | 20.85 | 20.62 | 20.78 | 22.50 |
| | 64QAM | 1 | 0 | 20.88 | 20.78 | 20.86 | 22.50 |
| | | 1 | 38 | 20.77 | 20.97 | 20.88 | 22.50 |
| | | 1 | 74 | 20.71 | 20.76 | 20.84 | 22.50 |
| | | 36 | 0 | 19.88 | 19.74 | 19.93 | 21.50 |
| | | 36 | 18 | 19.77 | 19.74 | 19.87 | 21.50 |
| | | 36 | 39 | 19.72 | 19.67 | 20.00 | 21.50 |
| | | 75 | 0 | 19.89 | 19.72 | 19.88 | 21.50 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37850 | Channel 38000 | Channel 38150 | Tune up |
| 20MHz | QPSK | 1 | 0 | 22.79 | 22.72 | 22.70 | 24.20 |
| | | 1 | 50 | 22.59 | 22.47 | 22.69 | 24.20 |
| | | 1 | 99 | 22.85 | 22.83 | **22.87** | 24.20 |
| | | 50 | 0 | **21.88** | 21.77 | 21.84 | 23.20 |
| | | 50 | 25 | 21.71 | 21.68 | 21.85 | 23.20 |
| | | 50 | 50 | 21.75 | 21.60 | 21.70 | 23.20 |
| | | 100 | 0 | 21.75 | 21.76 | 21.93 | 23.20 |
| | 16QAM | 1 | 0 | 22.16 | 22.08 | 22.12 | 23.50 |
| | | 1 | 50 | 21.62 | 21.67 | 21.68 | 23.50 |
| | | 1 | 99 | 22.14 | 22.20 | 22.24 | 23.50 |
| | | 50 | 0 | 20.79 | 20.64 | 20.74 | 22.50 |
| | | 50 | 25 | 20.79 | 20.57 | 20.75 | 22.50 |
| | | 50 | 50 | 20.68 | 20.52 | 20.60 | 22.50 |
| | | 100 | 0 | 20.63 | 20.65 | 20.77 | 22.50 |
| | 64QAM | 1 | 0 | 20.96 | 20.83 | 20.90 | 22.50 |
| | | 1 | 50 | 20.86 | 20.76 | 20.74 | 22.50 |
| | | 1 | 99 | 20.94 | 20.94 | 21.01 | 22.50 |
| | | 50 | 0 | 19.86 | 19.68 | 19.83 | 21.50 |
| | | 50 | 25 | 19.84 | 19.61 | 19.81 | 21.50 |
| | | 50 | 50 | 19.78 | 19.56 | 19.64 | 21.50 |
| | | 100 | 0 | 19.68 | 19.69 | 19.87 | 21.50 |



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| LTE Band 38 Receicer on/Receicer on+BT/WiFi 2.4G(Rec on)/WiFi 2.4G(Rec on)+BT/WiFi 5G(Rec on)/WiFi 5G(Rec on)+BT | | | | Conducted Power(dBm) | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Channel 37775 | Channel 38000 | Channel 38225 | Tune up |
| 5MHz | QPSK | 1 | 0 | 19.08 | 19.07 | 19.07 | 20.70 |
| | | 1 | 13 | 19.22 | 19.07 | 19.06 | 20.70 |
| | | 1 | 24 | 19.08 | 19.18 | 19.11 | 20.70 |
| | | 12 | 0 | 19.37 | 19.28 | 19.37 | 20.70 |
| | | 12 | 6 | 19.15 | 19.15 | 19.24 | 20.70 |
| | | 12 | 13 | 19.35 | 19.40 | 19.28 | 20.70 |
| | | 25 | 0 | 19.15 | 19.16 | 19.30 | 20.70 |
| | 16QAM | 1 | 0 | 19.34 | 19.26 | 19.35 | 20.70 |
| | | 1 | 13 | 19.49 | 19.41 | 19.22 | 20.70 |
| | | 1 | 24 | 19.25 | 18.85 | 19.38 | 20.70 |
| | | 12 | 0 | 19.12 | 19.17 | 19.10 | 20.70 |
| | | 12 | 6 | 19.04 | 19.23 | 18.99 | 20.70 |
| | | 12 | 13 | 19.08 | 19.16 | 19.12 | 20.70 |
| | | 25 | 0 | 19.11 | 19.19 | 19.12 | 20.70 |
| | 64QAM | 1 | 0 | 19.31 | 19.10 | 19.19 | 20.70 |
| | | 1 | 13 | 19.17 | 19.17 | 19.14 | 20.70 |
| | | 1 | 24 | 19.09 | 19.10 | 19.13 | 20.70 |
| | | 12 | 0 | 19.14 | 19.01 | 19.12 | 20.70 |
| | | 12 | 6 | 19.11 | 19.09 | 19.11 | 20.70 |
| | | 12 | 13 | 19.30 | 18.99 | 19.04 | 20.70 |
| | | 25 | 0 | 19.09 | 19.03 | 19.02 | 20.70 |
| Bandwidth | Modulation | RB size | RB offset | Channel 37800 | Channel 38000 | Channel 38200 | Tune up |
| 10MHz | QPSK | 1 | 0 | 19.24 | 19.11 | 19.33 | 20.70 |
| | | 1 | 25 | 19.04 | 18.96 | 19.11 | 20.70 |
| | | 1 | 49 | 19.08 | 19.12 | 19.23 | 20.70 |
| | | 25 | 0 | 19.20 | 19.32 | 19.32 | 20.70 |
| | | 25 | 13 | 19.30 | 19.31 | 19.19 | 20.70 |
| | | 25 | 25 | 19.27 | 19.05 | 19.28 | 20.70 |
| | | 50 | 0 | 19.14 | 19.23 | 19.27 | 20.70 |
| | 16QAM | 1 | 0 | 19.52 | 19.33 | 19.41 | 20.70 |
| | | 1 | 25 | 19.16 | 19.34 | 19.44 | 20.70 |
| | | 1 | 49 | 19.45 | 19.27 | 19.25 | 20.70 |
| | | 25 | 0 | 19.35 | 19.24 | 19.32 | 20.70 |
| | | 25 | 13 | 19.21 | 19.18 | 19.21 | 20.70 |
| | | 25 | 25 | 19.16 | 19.13 | 19.22 | 20.70 |
| | | 50 | 0 | 19.11 | 19.24 | 19.20 | 20.70 |
| | 64QAM | 1 | 0 | 19.31 | 19.17 | 19.37 | 20.70 |
| | | 1 | 25 | 19.13 | 18.86 | 18.98 | 20.70 |
| | | 1 | 49 | 19.06 | 19.15 | 19.16 | 20.70 |
| | | 25 | 0 | 19.33 | 19.04 | 19.23 | 20.70 |
| | | 25 | 13 | 19.18 | 19.09 | 19.13 | 20.70 |
| | | 25 | 25 | 19.23 | 19.01 | 18.90 | 20.70 |
| | | 50 | 0 | 18.98 | 19.00 | 19.06 | 20.70 |



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| Bandwidth | Modulation | RB size | RB offset | Channel 37825 | Channel 38000 | Channel 38175 | Tune up |
|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 19.21 | 19.13 | 19.34 | 20.70 |
| | | 1 | 38 | 19.21 | 19.09 | 19.28 | 20.70 |
| | | 1 | 74 | 19.17 | 19.07 | 19.21 | 20.70 |
| | | 36 | 0 | 19.24 | 19.39 | 19.39 | 20.70 |
| | | 36 | 18 | 19.31 | 19.29 | 19.32 | 20.70 |
| | | 36 | 39 | 19.18 | 19.29 | 19.36 | 20.70 |
| | | 75 | 0 | 19.26 | 19.27 | 19.33 | 20.70 |
| | 16QAM | 1 | 0 | 19.27 | 19.08 | 19.51 | 20.70 |
| | | 1 | 38 | 19.18 | 19.39 | 19.36 | 20.70 |
| | | 1 | 74 | 19.11 | 19.16 | 19.32 | 20.70 |
| | | 36 | 0 | 19.21 | 19.26 | 19.34 | 20.70 |
| | | 36 | 18 | 19.13 | 19.25 | 19.37 | 20.70 |
| | | 36 | 39 | 19.14 | 19.06 | 19.22 | 20.70 |
| | | 75 | 0 | 19.03 | 19.26 | 19.27 | 20.70 |
| | 64QAM | 1 | 0 | 19.26 | 19.13 | 19.22 | 20.70 |
| | | 1 | 38 | 19.12 | 19.32 | 19.22 | 20.70 |
| | | 1 | 74 | 19.11 | 19.14 | 19.22 | 20.70 |
| | | 36 | 0 | 19.22 | 19.11 | 19.31 | 20.70 |
| | | 36 | 18 | 19.14 | 19.08 | 19.22 | 20.70 |
| | | 36 | 39 | 19.07 | 19.05 | 19.37 | 20.70 |
| | | 75 | 0 | 19.29 | 19.11 | 19.27 | 20.70 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37850 | Channel 38000 | Channel 38150 | Tune up |
| 20MHz | QPSK | 1 | 0 | 19.29 | 19.20 | 19.14 | 20.70 |
| | | 1 | 50 | 19.11 | 18.91 | 19.00 | 20.70 |
| | | 1 | 99 | 19.27 | 19.25 | **19.41** | 20.70 |
| | | 50 | 0 | 19.28 | 19.20 | 19.30 | 20.70 |
| | | 50 | 25 | 19.25 | 19.26 | 19.25 | 20.70 |
| | | 50 | 50 | **19.36** | 19.25 | 19.22 | 20.70 |
| | | 100 | 0 | 19.16 | 19.33 | 19.33 | 20.70 |
| | 16QAM | 1 | 0 | 19.24 | 19.34 | 19.43 | 20.70 |
| | | 1 | 50 | 19.47 | 19.27 | 19.02 | 20.70 |
| | | 1 | 99 | 19.33 | 19.27 | 19.54 | 20.70 |
| | | 50 | 0 | 19.18 | 19.05 | 19.37 | 20.70 |
| | | 50 | 25 | 18.96 | 19.12 | 19.24 | 20.70 |
| | | 50 | 50 | 18.99 | 19.08 | 19.19 | 20.70 |
| | | 100 | 0 | 19.09 | 19.20 | 19.25 | 20.70 |
| | 64QAM | 1 | 0 | 19.33 | 19.20 | 19.28 | 20.70 |
| | | 1 | 50 | 19.22 | 19.14 | 19.14 | 20.70 |
| | | 1 | 99 | 19.30 | 19.32 | 19.38 | 20.70 |
| | | 50 | 0 | 19.25 | 19.05 | 19.22 | 20.70 |
| | | 50 | 25 | 19.21 | 18.98 | 19.20 | 20.70 |
| | | 50 | 50 | 19.12 | 18.94 | 19.03 | 20.70 |
| | | 100 | 0 | 19.08 | 19.03 | 19.25 | 20.70 |

| LTE Band 38 WiFi 2.4G+5G(Rec off)/WiFi 2.4G+5G(Rec off)+BT | | | | Conducted Power(dBm) | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Channel 37775 | Channel 38000 | Channel 38225 | Tune up |
| 5MHz | QPSK | 1 | 0 | 22.22 | 22.17 | 22.21 | 23.70 |
| | | 1 | 13 | 22.17 | 22.12 | 22.11 | 23.70 |
| | | 1 | 24 | 22.06 | 22.10 | 22.07 | 23.70 |
| | | 12 | 0 | 21.80 | 21.70 | 21.78 | 23.20 |
| | | 12 | 6 | 21.75 | 21.65 | 21.74 | 23.20 |
| | | 12 | 13 | 21.77 | 21.54 | 21.60 | 23.20 |
| | | 25 | 0 | 21.82 | 21.68 | 21.69 | 23.20 |
| | 16QAM | 1 | 0 | 22.19 | 21.92 | 22.08 | 23.50 |
| | | 1 | 13 | 22.02 | 22.02 | 21.99 | 23.50 |
| | | 1 | 24 | 21.94 | 21.99 | 21.95 | 23.50 |
| | | 12 | 0 | 20.70 | 20.62 | 20.73 | 22.50 |
| | | 12 | 6 | 20.64 | 20.62 | 20.63 | 22.50 |
| | | 12 | 13 | 20.81 | 20.57 | 20.59 | 22.50 |
| | | 25 | 0 | 20.66 | 20.62 | 20.64 | 22.50 |
| | 64QAM | 1 | 0 | 20.95 | 20.71 | 20.83 | 22.50 |
| | | 1 | 13 | 20.78 | 20.79 | 20.75 | 22.50 |
| | | 1 | 24 | 20.71 | 20.74 | 20.75 | 22.50 |
| | | 12 | 0 | 19.74 | 19.66 | 19.77 | 21.50 |
| | | 12 | 6 | 19.73 | 19.72 | 19.73 | 21.50 |
| | | 12 | 13 | 19.90 | 19.65 | 19.65 | 21.50 |
| | | 25 | 0 | 19.73 | 19.67 | 19.68 | 21.50 |
| Bandwidth | Modulation | RB size | RB offset | Channel 37800 | Channel 38000 | Channel 38200 | Tune up |
| 10MHz | QPSK | 1 | 0 | 22.21 | 22.17 | 22.20 | 23.70 |
| | | 1 | 25 | 22.14 | 22.11 | 22.10 | 23.70 |
| | | 1 | 49 | 22.10 | 22.12 | 22.15 | 23.70 |
| | | 25 | 0 | 21.93 | 21.79 | 21.82 | 23.20 |
| | | 25 | 13 | 21.76 | 21.73 | 21.76 | 23.20 |
| | | 25 | 25 | 21.78 | 21.55 | 21.57 | 23.20 |
| | | 50 | 0 | 21.74 | 21.69 | 21.79 | 23.20 |
| | 16QAM | 1 | 0 | 22.16 | 21.98 | 22.24 | 23.50 |
| | | 1 | 25 | 21.97 | 21.76 | 21.81 | 23.50 |
| | | 1 | 49 | 21.91 | 21.99 | 21.99 | 23.50 |
| | | 25 | 0 | 20.91 | 20.59 | 20.75 | 22.50 |
| | | 25 | 13 | 20.70 | 20.63 | 20.70 | 22.50 |
| | | 25 | 25 | 20.76 | 20.54 | 20.50 | 22.50 |
| | | 50 | 0 | 20.57 | 20.59 | 20.68 | 22.50 |
| | 64QAM | 1 | 0 | 20.96 | 20.77 | 21.02 | 22.50 |
| | | 1 | 25 | 20.73 | 20.52 | 20.58 | 22.50 |
| | | 1 | 49 | 20.67 | 20.75 | 20.77 | 22.50 |
| | | 25 | 0 | 19.96 | 19.69 | 19.83 | 21.50 |
| | | 25 | 13 | 19.78 | 19.72 | 19.74 | 21.50 |
| | | 25 | 25 | 19.86 | 19.62 | 19.55 | 21.50 |
| | | 50 | 0 | 19.63 | 19.63 | 19.72 | 21.50 |



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| Bandwidth | Modulation | RB size | RB offset | Channel 37825 | Channel 38000 | Channel 38175 | Tune up |
|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 22.24 | 22.19 | 22.23 | 23.70 |
| | | 1 | 38 | 22.23 | 22.22 | 22.14 | 23.70 |
| | | 1 | 74 | 22.22 | 22.20 | 22.23 | 23.70 |
| | | 36 | 0 | 21.84 | 21.73 | 21.90 | 23.20 |
| | | 36 | 18 | 21.75 | 21.68 | 21.75 | 23.20 |
| | | 36 | 39 | 21.69 | 21.60 | 21.60 | 23.20 |
| | | 75 | 0 | 21.89 | 21.68 | 21.77 | 23.20 |
| | 16QAM | 1 | 0 | 22.13 | 21.98 | 22.09 | 23.50 |
| | | 1 | 38 | 22.01 | 22.19 | 22.12 | 23.50 |
| | | 1 | 74 | 21.96 | 21.99 | 22.08 | 23.50 |
| | | 36 | 0 | 20.81 | 20.65 | 20.88 | 22.50 |
| | | 36 | 18 | 20.68 | 20.67 | 20.77 | 22.50 |
| | | 36 | 39 | 20.68 | 20.58 | 20.91 | 22.50 |
| | | 75 | 0 | 20.85 | 20.62 | 20.78 | 22.50 |
| | 64QAM | 1 | 0 | 20.88 | 20.78 | 20.86 | 22.50 |
| | | 1 | 38 | 20.77 | 20.97 | 20.88 | 22.50 |
| | | 1 | 74 | 20.71 | 20.76 | 20.84 | 22.50 |
| | | 36 | 0 | 19.88 | 19.74 | 19.93 | 21.50 |
| | | 36 | 18 | 19.77 | 19.74 | 19.87 | 21.50 |
| | | 36 | 39 | 19.72 | 19.67 | 20.00 | 21.50 |
| | | 75 | 0 | 19.89 | 19.72 | 19.88 | 21.50 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37850 | Channel 38000 | Channel 38150 | Tune up |
| 20MHz | QPSK | 1 | 0 | 22.25 | 22.18 | 22.24 | 23.70 |
| | | 1 | 50 | 22.18 | 22.13 | 22.10 | 23.70 |
| | | 1 | 99 | 22.11 | 22.07 | 22.05 | 23.70 |
| | | 50 | 0 | 21.88 | 21.77 | 21.84 | 23.20 |
| | | 50 | 25 | 21.71 | 21.68 | 21.85 | 23.20 |
| | | 50 | 50 | 21.75 | 21.60 | 21.70 | 23.20 |
| | | 100 | 0 | 21.75 | 21.76 | 21.93 | 23.20 |
| | 16QAM | 1 | 0 | 22.16 | 22.08 | 22.12 | 23.50 |
| | | 1 | 50 | 21.62 | 21.67 | 21.68 | 23.50 |
| | | 1 | 99 | 22.14 | 22.20 | 22.24 | 23.50 |
| | | 50 | 0 | 20.79 | 20.64 | 20.74 | 22.50 |
| | | 50 | 25 | 20.79 | 20.57 | 20.75 | 22.50 |
| | | 50 | 50 | 20.68 | 20.52 | 20.60 | 22.50 |
| | | 100 | 0 | 20.63 | 20.65 | 20.77 | 22.50 |
| | 64QAM | 1 | 0 | 20.96 | 20.83 | 20.90 | 22.50 |
| | | 1 | 50 | 20.86 | 20.76 | 20.74 | 22.50 |
| | | 1 | 99 | 20.94 | 20.94 | 21.01 | 22.50 |
| | | 50 | 0 | 19.86 | 19.68 | 19.83 | 21.50 |
| | | 50 | 25 | 19.84 | 19.61 | 19.81 | 21.50 |
| | | 50 | 50 | 19.78 | 19.56 | 19.64 | 21.50 |
| | | 100 | 0 | 19.68 | 19.69 | 19.87 | 21.50 |

| LTE Band 38 WiFi 2.4G+5G(Rec on)/WiFi 2.4G+5G(Rec on)+BT | | | | Conducted Power(dBm) | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37775 | Channel 38000 | Channel 38225 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 18.54 | 18.58 | 18.53 | 20.20 |
| | | 1 | 13 | 18.73 | 18.56 | 18.54 | 20.20 |
| | | 1 | 24 | 18.54 | 18.65 | 18.59 | 20.20 |
| | | 12 | 0 | 18.83 | 18.73 | 18.87 | 20.20 |
| | | 12 | 6 | 18.63 | 18.63 | 18.71 | 20.20 |
| | | 12 | 13 | 18.83 | 18.88 | 18.73 | 20.20 |
| | | 25 | 0 | 18.65 | 18.63 | 18.76 | 20.20 |
| | 16QAM | 1 | 0 | 18.82 | 18.76 | 18.85 | 20.20 |
| | | 1 | 13 | 18.98 | 18.88 | 18.68 | 20.20 |
| | | 1 | 24 | 18.73 | 18.30 | 18.89 | 20.20 |
| | | 12 | 0 | 18.58 | 18.62 | 18.59 | 20.20 |
| | | 12 | 6 | 18.51 | 18.70 | 18.50 | 20.20 |
| | | 12 | 13 | 18.59 | 18.61 | 18.58 | 20.20 |
| | | 25 | 0 | 18.61 | 18.68 | 18.62 | 20.20 |
| | 64QAM | 1 | 0 | 18.78 | 18.69 | 18.80 | 20.20 |
| | | 1 | 13 | 18.96 | 18.88 | 18.70 | 20.20 |
| | | 1 | 24 | 18.73 | 18.26 | 18.92 | 20.20 |
| | | 12 | 0 | 18.59 | 18.68 | 18.53 | 20.20 |
| | | 12 | 6 | 18.44 | 18.72 | 18.46 | 20.20 |
| | | 12 | 13 | 18.56 | 18.55 | 18.53 | 20.20 |
| | | 25 | 0 | 18.63 | 18.64 | 18.61 | 20.20 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 37800 | Channel 38000 | Channel 38200 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 18.69 | 18.58 | 18.78 | 20.20 |
| | | 1 | 25 | 18.54 | 18.43 | 18.61 | 20.20 |
| | | 1 | 49 | 18.55 | 18.63 | 18.71 | 20.20 |
| | | 25 | 0 | 18.66 | 18.77 | 18.77 | 20.20 |
| | | 25 | 13 | 18.80 | 18.81 | 18.68 | 20.20 |
| | | 25 | 25 | 18.74 | 18.50 | 18.73 | 20.20 |
| | | 50 | 0 | 18.63 | 18.72 | 18.77 | 20.20 |
| | 16QAM | 1 | 0 | 18.95 | 18.80 | 18.89 | 20.20 |
| | | 1 | 25 | 18.61 | 18.85 | 18.95 | 20.20 |
| | | 1 | 49 | 18.95 | 18.74 | 18.71 | 20.20 |
| | | 25 | 0 | 18.84 | 18.75 | 18.78 | 20.20 |
| | | 25 | 13 | 18.66 | 18.68 | 18.72 | 20.20 |
| | | 25 | 25 | 18.61 | 18.61 | 18.69 | 20.20 |
| | | 50 | 0 | 18.56 | 18.70 | 18.66 | 20.20 |
| | 64QAM | 1 | 0 | 18.97 | 18.84 | 18.94 | 20.20 |
| | | 1 | 25 | 18.66 | 18.83 | 18.89 | 20.20 |
| | | 1 | 49 | 18.93 | 18.78 | 18.66 | 20.20 |
| | | 25 | 0 | 18.77 | 18.81 | 18.74 | 20.20 |
| | | 25 | 13 | 18.71 | 18.72 | 18.75 | 20.20 |
| | | 25 | 25 | 18.57 | 18.57 | 18.73 | 20.20 |
| | | 50 | 0 | 18.54 | 18.64 | 18.66 | 20.20 |

| Bandwidth | Modulation | RB size | RB offset | Channel 37825 | Channel 38000 | Channel 38175 | Tune up |
|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 18.70 | 18.59 | 18.83 | 20.20 |
| | | 1 | 38 | 18.68 | 18.60 | 18.74 | 20.20 |
| | | 1 | 74 | 18.65 | 18.53 | 18.72 | 20.20 |
| | | 36 | 0 | 18.71 | 18.89 | 18.89 | 20.20 |
| | | 36 | 18 | 18.80 | 18.78 | 18.82 | 20.20 |
| | | 36 | 39 | 18.64 | 18.78 | 18.82 | 20.20 |
| | | 75 | 0 | 18.77 | 18.73 | 18.79 | 20.20 |
| | 16QAM | 1 | 0 | 18.76 | 18.55 | 18.95 | 20.20 |
| | | 1 | 38 | 18.64 | 18.90 | 18.84 | 20.20 |
| | | 1 | 74 | 18.58 | 18.64 | 18.80 | 20.20 |
| | | 36 | 0 | 18.71 | 18.74 | 18.85 | 20.20 |
| | | 36 | 18 | 18.59 | 18.74 | 18.84 | 20.20 |
| | | 36 | 39 | 18.63 | 18.52 | 18.72 | 20.20 |
| | | 75 | 0 | 18.54 | 18.76 | 18.78 | 20.20 |
| | 64QAM | 1 | 0 | 18.69 | 18.48 | 18.96 | 20.20 |
| | | 1 | 38 | 18.62 | 18.83 | 18.78 | 20.20 |
| | | 1 | 74 | 18.58 | 18.69 | 18.74 | 20.20 |
| | | 36 | 0 | 18.70 | 18.78 | 18.86 | 20.20 |
| | | 36 | 18 | 18.57 | 18.67 | 18.90 | 20.20 |
| | | 36 | 39 | 18.60 | 18.49 | 18.67 | 20.20 |
| | | 75 | 0 | 18.47 | 18.82 | 18.77 | 20.20 |

| Bandwidth | Modulation | RB size | RB offset | Channel 37850 | Channel 38000 | Channel 38150 | Tune up |
|---|---|---|---|---|---|---|---|
| 20MHz | QPSK | 1 | 0 | 18.55 | 18.52 | 18.56 | 20.20 |
| | | 1 | 50 | 18.70 | 18.54 | 18.57 | 20.20 |
| | | 1 | 99 | 18.54 | 18.68 | 18.60 | 20.20 |
| | | 50 | 0 | 18.82 | 18.77 | 18.85 | 20.20 |
| | | 50 | 25 | 18.66 | 18.64 | 18.74 | 20.20 |
| | | 50 | 50 | 18.83 | 18.89 | 18.73 | 20.20 |
| | | 100 | 0 | 18.62 | 18.62 | 18.78 | 20.20 |
| | 16QAM | 1 | 0 | 18.82 | 18.71 | 18.81 | 20.20 |
| | | 1 | 50 | 18.99 | 18.88 | 18.70 | 20.20 |
| | | 1 | 99 | 18.75 | 18.35 | 18.88 | 20.20 |
| | | 50 | 0 | 18.60 | 18.66 | 18.60 | 20.20 |
| | | 50 | 25 | 18.52 | 18.73 | 18.46 | 20.20 |
| | | 50 | 50 | 18.57 | 18.61 | 18.60 | 20.20 |
| | | 100 | 0 | 18.56 | 18.68 | 18.62 | 20.20 |
| | 64QAM | 1 | 0 | 18.79 | 18.67 | 18.82 | 20.20 |
| | | 1 | 50 | 18.95 | 18.84 | 18.71 | 20.20 |
| | | 1 | 99 | 18.79 | 18.41 | 18.93 | 20.20 |
| | | 50 | 0 | 18.54 | 18.63 | 18.64 | 20.20 |
| | | 50 | 25 | 18.54 | 18.72 | 18.39 | 20.20 |
| | | 50 | 50 | 18.50 | 18.57 | 18.63 | 20.20 |
| | | 100 | 0 | 18.62 | 18.61 | 18.66 | 20.20 |


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| LTE Band 41 Full Power/Receicer off Receicer off+BT/WiFi 5G(Rec off)/WiFi 5G(Rec off)+BT | | | | Conducted Power(dBm) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40165 | Channel 40515 | Channel 40865 | Channel 41215 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 22.68 | 22.62 | 22.63 | 22.62 | 24.20 |
| | | 1 | 13 | 22.61 | 22.62 | 22.53 | 22.53 | 24.20 |
| | | 1 | 24 | 22.60 | 22.53 | 22.62 | 22.58 | 24.20 |
| | | 12 | 0 | 21.72 | 21.79 | 21.72 | 21.87 | 23.20 |
| | | 12 | 6 | 21.72 | 21.67 | 21.74 | 21.83 | 23.20 |
| | | 12 | 13 | 21.77 | 21.65 | 21.72 | 21.65 | 23.20 |
| | | 25 | 0 | 21.69 | 21.76 | 21.69 | 21.80 | 23.20 |
| | 16QAM | 1 | 0 | 21.88 | 21.95 | 21.96 | 22.02 | 23.50 |
| | | 1 | 13 | 21.90 | 21.91 | 21.88 | 21.93 | 23.50 |
| | | 1 | 24 | 21.93 | 21.83 | 21.89 | 21.96 | 23.50 |
| | | 12 | 0 | 20.57 | 20.75 | 20.63 | 20.72 | 22.50 |
| | | 12 | 6 | 20.59 | 20.63 | 20.66 | 20.69 | 22.50 |
| | | 12 | 13 | 20.52 | 20.61 | 20.65 | 20.62 | 22.50 |
| | | 25 | 0 | 20.67 | 20.54 | 20.66 | 20.70 | 22.50 |
| | 64QAM | 1 | 0 | 20.87 | 20.94 | 20.93 | 20.98 | 22.50 |
| | | 1 | 13 | 20.85 | 20.85 | 20.85 | 20.89 | 22.50 |
| | | 1 | 24 | 20.90 | 20.77 | 20.88 | 20.94 | 22.50 |
| | | 12 | 0 | 19.55 | 19.75 | 19.63 | 19.70 | 21.50 |
| | | 12 | 6 | 19.54 | 19.62 | 19.64 | 19.67 | 21.50 |
| | | 12 | 13 | 19.76 | 19.55 | 19.59 | 19.62 | 21.50 |
| | | 25 | 0 | 19.66 | 19.52 | 19.66 | 19.65 | 21.50 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40190 | Channel 40523 | Channel 40857 | Channel 41190 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 22.65 | 22.56 | 22.65 | 22.62 | 24.20 |
| | | 1 | 25 | 22.58 | 22.68 | 22.55 | 22.55 | 24.20 |
| | | 1 | 49 | 22.64 | 22.58 | 22.54 | 22.55 | 24.20 |
| | | 25 | 0 | 21.72 | 21.70 | 21.84 | 21.78 | 23.20 |
| | | 25 | 13 | 21.73 | 21.60 | 21.71 | 21.80 | 23.20 |
| | | 25 | 25 | 21.63 | 21.65 | 21.65 | 21.72 | 23.20 |
| | | 50 | 0 | 21.77 | 21.63 | 21.63 | 21.73 | 23.20 |
| | 16QAM | 1 | 0 | 21.89 | 22.09 | 22.10 | 21.92 | 23.50 |
| | | 1 | 25 | 21.85 | 21.98 | 21.91 | 21.71 | 23.50 |
| | | 1 | 49 | 21.94 | 22.00 | 21.90 | 21.86 | 23.50 |
| | | 25 | 0 | 20.65 | 20.62 | 20.81 | 20.63 | 22.50 |
| | | 25 | 13 | 20.72 | 20.55 | 20.68 | 20.58 | 22.50 |
| | | 25 | 25 | 20.75 | 20.53 | 20.62 | 20.62 | 22.50 |
| | | 50 | 0 | 20.65 | 20.73 | 20.68 | 20.71 | 22.50 |
| | 64QAM | 1 | 0 | 20.89 | 21.08 | 21.07 | 20.88 | 22.50 |
| | | 1 | 25 | 20.85 | 20.95 | 20.86 | 20.65 | 22.50 |
| | | 1 | 49 | 20.91 | 20.96 | 20.86 | 20.80 | 22.50 |
| | | 25 | 0 | 19.64 | 19.62 | 19.76 | 19.58 | 21.50 |
| | | 25 | 13 | 19.66 | 19.54 | 19.64 | 19.55 | 21.50 |
| | | 25 | 25 | 19.69 | 19.50 | 19.58 | 19.58 | 21.50 |
| | | 50 | 0 | 19.62 | 19.71 | 19.65 | 19.67 | 21.50 |



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| Bandwidth | Modulation | RB size | RB offset | Channel 40215 | Channel 40532 | Channel 40848 | Channel 41165 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 22.81 | 22.71 | 22.73 | 22.69 | 24.20 |
| | | 1 | 38 | 22.71 | 22.65 | 22.69 | 22.73 | 24.20 |
| | | 1 | 74 | 22.75 | 22.68 | 22.65 | 22.71 | 24.20 |
| | | 36 | 0 | 21.75 | 21.74 | 21.90 | 21.86 | 23.20 |
| | | 36 | 18 | 21.74 | 21.62 | 21.76 | 21.68 | 23.20 |
| | | 36 | 39 | 21.83 | 21.67 | 21.65 | 21.62 | 23.20 |
| | | 75 | 0 | 21.75 | 21.68 | 21.80 | 21.68 | 23.20 |
| | 16QAM | 1 | 0 | 21.90 | 22.17 | 21.97 | 21.93 | 23.50 |
| | | 1 | 38 | 22.00 | 21.96 | 22.05 | 21.92 | 23.50 |
| | | 1 | 74 | 21.96 | 21.96 | 21.90 | 21.95 | 23.50 |
| | | 36 | 0 | 20.76 | 20.70 | 20.86 | 20.65 | 22.50 |
| | | 36 | 18 | 20.71 | 20.56 | 20.76 | 20.70 | 22.50 |
| | | 36 | 39 | 20.83 | 20.68 | 20.62 | 20.64 | 22.50 |
| | | 75 | 0 | 20.70 | 20.58 | 20.72 | 20.69 | 22.50 |
| | 64QAM | 1 | 0 | 20.84 | 21.13 | 20.92 | 20.87 | 22.50 |
| | | 1 | 38 | 20.95 | 20.93 | 21.05 | 20.89 | 22.50 |
| | | 1 | 74 | 20.95 | 20.92 | 20.86 | 20.89 | 22.50 |
| | | 36 | 0 | 19.71 | 19.70 | 19.80 | 19.61 | 21.50 |
| | | 36 | 18 | 19.66 | 19.50 | 19.72 | 19.68 | 21.50 |
| | | 36 | 39 | 19.81 | 19.65 | 19.60 | 19.59 | 21.50 |
| | | 75 | 0 | 19.66 | 19.52 | 19.69 | 19.63 | 21.50 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40240 | Channel 40540 | Channel 40840 | Channel 41140 | Tune up |
| 20MHz | QPSK | 1 | 0 | 22.67 | 22.82 | 22.66 | 22.75 | 24.20 |
| | | 1 | 50 | 22.79 | 22.46 | 22.52 | 22.62 | 24.20 |
| | | 1 | 99 | **22.88** | 22.75 | 22.85 | 22.81 | 24.20 |
| | | 50 | 0 | 21.81 | 21.80 | **21.89** | 21.73 | 23.20 |
| | | 50 | 25 | 21.73 | 21.58 | 21.80 | 21.69 | 23.20 |
| | | 50 | 50 | 21.71 | 21.74 | 21.72 | 21.73 | 23.20 |
| | | 100 | 0 | 21.82 | 21.70 | 21.86 | 21.75 | 23.20 |
| | 16QAM | 1 | 0 | 22.04 | 22.21 | 21.99 | 22.05 | 23.50 |
| | | 1 | 50 | 21.70 | 21.62 | 21.52 | 21.58 | 23.50 |
| | | 1 | 99 | 22.25 | 22.09 | 22.08 | 22.13 | 23.50 |
| | | 50 | 0 | 20.71 | 20.66 | 20.68 | 20.66 | 22.50 |
| | | 50 | 25 | 20.64 | 20.59 | 20.72 | 20.65 | 22.50 |
| | | 50 | 50 | 20.67 | 20.57 | 20.64 | 20.59 | 22.50 |
| | | 100 | 0 | 20.65 | 20.56 | 20.80 | 20.72 | 22.50 |
| | 64QAM | 1 | 0 | 21.01 | 21.15 | 20.94 | 21.05 | 22.50 |
| | | 1 | 50 | 20.70 | 20.60 | 20.52 | 20.56 | 22.50 |
| | | 1 | 99 | 21.22 | 21.03 | 21.02 | 21.10 | 22.50 |
| | | 50 | 0 | 19.67 | 19.62 | 19.68 | 19.62 | 21.50 |
| | | 50 | 25 | 19.58 | 19.55 | 19.66 | 19.65 | 21.50 |
| | | 50 | 50 | 19.67 | 19.53 | 19.64 | 19.54 | 21.50 |
| | | 100 | 0 | 19.63 | 19.55 | 19.76 | 19.68 | 21.50 |

| LTE Band 41 Receicer on/Receicer on+BT/WiFi 5G(Rec on)/WiFi 5G(Rec on)+BT | | | | Conducted Power(dBm) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40165 | Channel 40515 | Channel 40865 | Channel 41215 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 18.57 | 18.58 | 18.53 | 18.59 | 20.20 |
| | | 1 | 13 | 18.65 | 18.68 | 18.71 | 18.61 | 20.20 |
| | | 1 | 24 | 18.57 | 18.43 | 18.65 | 18.62 | 20.20 |
| | | 12 | 0 | 18.78 | 18.84 | 18.63 | 18.87 | 20.20 |
| | | 12 | 6 | 18.73 | 18.69 | 18.64 | 18.79 | 20.20 |
| | | 12 | 13 | 18.73 | 18.60 | 18.76 | 18.65 | 20.20 |
| | | 25 | 0 | 18.79 | 18.58 | 18.73 | 18.75 | 20.20 |
| | 16QAM | 1 | 0 | 18.88 | 18.54 | 18.78 | 18.97 | 20.20 |
| | | 1 | 13 | 18.86 | 18.60 | 18.75 | 19.07 | 20.20 |
| | | 1 | 24 | 18.79 | 18.59 | 18.51 | 18.75 | 20.20 |
| | | 12 | 0 | 18.58 | 18.82 | 18.61 | 18.68 | 20.20 |
| | | 12 | 6 | 18.64 | 18.64 | 18.65 | 18.71 | 20.20 |
| | | 12 | 13 | 18.58 | 18.45 | 18.63 | 18.62 | 20.20 |
| | | 25 | 0 | 18.64 | 18.69 | 18.70 | 18.71 | 20.20 |
| | 64QAM | 1 | 0 | 18.86 | 18.49 | 18.77 | 18.94 | 20.20 |
| | | 1 | 13 | 18.82 | 18.58 | 18.72 | 19.02 | 20.20 |
| | | 1 | 24 | 18.73 | 18.57 | 18.47 | 18.71 | 20.20 |
| | | 12 | 0 | 18.51 | 18.81 | 18.58 | 18.67 | 20.20 |
| | | 12 | 6 | 18.57 | 18.58 | 18.61 | 18.68 | 20.20 |
| | | 12 | 13 | 18.54 | 18.40 | 18.59 | 18.55 | 20.20 |
| | | 25 | 0 | 18.59 | 18.66 | 18.64 | 18.64 | 20.20 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40190 | Channel 40523 | Channel 40857 | Channel 41190 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 18.58 | 18.52 | 18.58 | 18.64 | 20.20 |
| | | 1 | 25 | 18.66 | 18.67 | 18.52 | 18.59 | 20.20 |
| | | 1 | 49 | 18.59 | 18.60 | 18.66 | 18.68 | 20.20 |
| | | 25 | 0 | 18.84 | 18.60 | 18.76 | 18.80 | 20.20 |
| | | 25 | 13 | 18.82 | 18.56 | 18.64 | 18.72 | 20.20 |
| | | 25 | 25 | 18.87 | 18.57 | 18.76 | 18.73 | 20.20 |
| | | 50 | 0 | 18.83 | 18.58 | 18.67 | 18.75 | 20.20 |
| | 16QAM | 1 | 0 | 18.90 | 18.83 | 18.83 | 18.64 | 20.20 |
| | | 1 | 25 | 18.87 | 18.79 | 18.50 | 18.70 | 20.20 |
| | | 1 | 49 | 18.87 | 18.66 | 19.13 | 18.43 | 20.20 |
| | | 25 | 0 | 18.67 | 18.54 | 18.76 | 18.69 | 20.20 |
| | | 25 | 13 | 18.76 | 18.64 | 18.61 | 18.59 | 20.20 |
| | | 25 | 25 | 18.80 | 18.56 | 18.77 | 18.80 | 20.20 |
| | | 50 | 0 | 18.69 | 18.53 | 18.67 | 18.62 | 20.20 |
| | 64QAM | 1 | 0 | 18.89 | 18.80 | 18.79 | 18.62 | 20.20 |
| | | 1 | 25 | 18.86 | 18.75 | 18.44 | 18.69 | 20.20 |
| | | 1 | 49 | 18.84 | 18.61 | 19.10 | 18.42 | 20.20 |
| | | 25 | 0 | 18.66 | 18.53 | 18.71 | 18.67 | 20.20 |
| | | 25 | 13 | 18.71 | 18.62 | 18.60 | 18.56 | 20.20 |
| | | 25 | 25 | 18.79 | 18.55 | 18.71 | 18.77 | 20.20 |
| | | 50 | 0 | 18.68 | 18.47 | 18.66 | 18.61 | 20.20 |



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| Bandwidth | Modulation | RB size | RB offset | Channel 40215 | Channel 40532 | Channel 40848 | Channel 41165 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 18.71 | 18.65 | 18.73 | 18.87 | 20.20 |
| | | 1 | 38 | 18.88 | 18.83 | 18.64 | 18.59 | 20.20 |
| | | 1 | 74 | 18.82 | 18.64 | 18.69 | 18.59 | 20.20 |
| | | 36 | 0 | 18.84 | 18.68 | 18.73 | 18.72 | 20.20 |
| | | 36 | 18 | 18.85 | 18.56 | 18.64 | 18.71 | 20.20 |
| | | 36 | 39 | 18.85 | 18.63 | 18.69 | 18.68 | 20.20 |
| | | 75 | 0 | 18.86 | 18.65 | 18.65 | 18.84 | 20.20 |
| | 16QAM | 1 | 0 | 18.97 | 18.91 | 18.33 | 18.84 | 20.20 |
| | | 1 | 38 | 18.88 | 18.84 | 18.56 | 18.22 | 20.20 |
| | | 1 | 74 | 18.80 | 18.81 | 18.83 | 18.97 | 20.20 |
| | | 36 | 0 | 18.81 | 18.62 | 18.90 | 18.70 | 20.20 |
| | | 36 | 18 | 18.77 | 18.49 | 18.75 | 18.64 | 20.20 |
| | | 36 | 39 | 18.79 | 18.71 | 18.80 | 18.66 | 20.20 |
| | | 75 | 0 | 18.74 | 18.53 | 18.71 | 18.62 | 20.20 |
| | 64QAM | 1 | 0 | 18.94 | 18.87 | 18.32 | 18.79 | 20.20 |
| | | 1 | 38 | 18.83 | 18.78 | 18.54 | 18.58 | 20.20 |
| | | 1 | 74 | 18.73 | 18.77 | 18.82 | 18.90 | 20.20 |
| | | 36 | 0 | 18.80 | 18.59 | 18.87 | 18.63 | 20.20 |
| | | 36 | 18 | 18.75 | 18.47 | 18.73 | 18.59 | 20.20 |
| | | 36 | 39 | 18.77 | 18.64 | 18.77 | 18.65 | 20.20 |
| | | 75 | 0 | 18.68 | 18.51 | 18.69 | 18.56 | 20.20 |

| Bandwidth | Modulation | RB size | RB offset | Channel 40240 | Channel 40540 | Channel 40840 | Channel 41140 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 20MHz | QPSK | 1 | 0 | 18.76 | 18.83 | 18.72 | 18.82 | 20.20 |
| | | 1 | 50 | 18.58 | 18.44 | 18.63 | 18.70 | 20.20 |
| | | 1 | 99 | **18.89** | 18.81 | 18.85 | 18.72 | 20.20 |
| | | 50 | 0 | **18.94** | 18.77 | 18.84 | 18.72 | 20.20 |
| | | 50 | 25 | 18.84 | 18.55 | 18.63 | 18.72 | 20.20 |
| | | 50 | 50 | 18.63 | 18.65 | 18.71 | 18.74 | 20.20 |
| | | 100 | 0 | 18.88 | 18.67 | 18.70 | 18.78 | 20.20 |
| | 16QAM | 1 | 0 | 19.17 | 19.27 | 18.92 | 19.00 | 20.20 |
| | | 1 | 50 | 18.58 | 18.80 | 18.39 | 18.90 | 20.20 |
| | | 1 | 99 | 19.27 | 18.86 | 19.01 | 18.89 | 20.20 |
| | | 50 | 0 | 18.88 | 18.64 | 18.80 | 18.70 | 20.20 |
| | | 50 | 25 | 18.70 | 18.66 | 18.67 | 18.68 | 20.20 |
| | | 50 | 50 | 18.85 | 18.70 | 18.80 | 18.77 | 20.20 |
| | | 100 | 0 | 18.78 | 18.57 | 18.76 | 18.69 | 20.20 |
| | 64QAM | 1 | 0 | 19.11 | 19.22 | 18.86 | 18.99 | 20.20 |
| | | 1 | 50 | 18.51 | 18.73 | 18.36 | 18.86 | 20.20 |
| | | 1 | 99 | 19.19 | 18.82 | 18.99 | 18.83 | 20.20 |
| | | 50 | 0 | 18.83 | 18.59 | 18.74 | 18.66 | 20.20 |
| | | 50 | 25 | 18.63 | 18.62 | 18.63 | 18.65 | 20.20 |
| | | 50 | 50 | 18.84 | 18.63 | 18.73 | 18.71 | 20.20 |
| | | 100 | 0 | 18.75 | 18.53 | 18.72 | 18.64 | 20.20 |



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| LTE Band 41 WiFi 2.4G(Rec off)/WiFi 2.4G(Rec off)+BT/WiFi 2.4G+5G(Rec off)/WiFi 2.4G+5G(Rec off)+BT | | | | Conducted Power(dBm) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40165 | Channel 40515 | Channel 40865 | Channel 41215 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 18.08 | 18.05 | 18.00 | 18.08 | 19.70 |
| | | 1 | 13 | 18.15 | 18.14 | 18.18 | 18.13 | 19.70 |
| | | 1 | 24 | 18.09 | 17.94 | 18.15 | 18.09 | 19.70 |
| | | 12 | 0 | 18.25 | 18.30 | 18.12 | 18.38 | 19.70 |
| | | 12 | 6 | 18.21 | 18.17 | 18.11 | 18.28 | 19.70 |
| | | 12 | 13 | 18.23 | 18.08 | 18.27 | 18.15 | 19.70 |
| | | 25 | 0 | 18.27 | 18.10 | 18.24 | 18.27 | 19.70 |
| | 16QAM | 1 | 0 | 18.38 | 18.06 | 18.24 | 18.47 | 19.70 |
| | | 1 | 13 | 18.36 | 18.07 | 18.22 | 18.56 | 19.70 |
| | | 1 | 24 | 18.27 | 18.05 | 17.99 | 18.27 | 19.70 |
| | | 12 | 0 | 18.07 | 18.28 | 18.09 | 18.15 | 19.70 |
| | | 12 | 6 | 18.11 | 18.14 | 18.11 | 18.23 | 19.70 |
| | | 12 | 13 | 18.10 | 17.91 | 18.13 | 18.12 | 19.70 |
| | | 25 | 0 | 18.14 | 18.20 | 18.19 | 18.17 | 19.70 |
| | 64QAM | 1 | 0 | 18.34 | 17.95 | 18.25 | 18.44 | 19.70 |
| | | 1 | 13 | 18.32 | 18.02 | 18.22 | 18.46 | 19.70 |
| | | 1 | 24 | 18.20 | 18.07 | 17.95 | 18.18 | 19.70 |
| | | 12 | 0 | 18.00 | 18.25 | 18.08 | 18.11 | 19.70 |
| | | 12 | 6 | 18.02 | 18.06 | 18.06 | 18.18 | 19.70 |
| | | 12 | 13 | 17.98 | 17.89 | 18.08 | 18.02 | 19.70 |
| | | 25 | 0 | 18.07 | 18.10 | 18.14 | 18.14 | 19.70 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40190 | Channel 40523 | Channel 40857 | Channel 41190 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 18.10 | 18.01 | 18.04 | 18.10 | 19.70 |
| | | 1 | 25 | 18.13 | 18.18 | 18.00 | 18.11 | 19.70 |
| | | 1 | 49 | 18.10 | 18.09 | 18.18 | 18.17 | 19.70 |
| | | 25 | 0 | 18.34 | 18.09 | 18.24 | 18.26 | 19.70 |
| | | 25 | 13 | 18.32 | 18.02 | 18.16 | 18.22 | 19.70 |
| | | 25 | 25 | 18.37 | 18.05 | 18.28 | 18.25 | 19.70 |
| | | 50 | 0 | 18.35 | 18.05 | 18.18 | 18.25 | 19.70 |
| | 16QAM | 1 | 0 | 18.42 | 18.29 | 18.32 | 18.13 | 19.70 |
| | | 1 | 25 | 18.35 | 18.26 | 18.00 | 18.19 | 19.70 |
| | | 1 | 49 | 18.36 | 18.14 | 18.56 | 17.95 | 19.70 |
| | | 25 | 0 | 18.17 | 18.04 | 18.28 | 18.21 | 19.70 |
| | | 25 | 13 | 18.26 | 18.12 | 18.07 | 18.10 | 19.70 |
| | | 25 | 25 | 18.31 | 18.02 | 18.27 | 18.30 | 19.70 |
| | | 50 | 0 | 18.18 | 18.02 | 18.16 | 18.11 | 19.70 |
| | 64QAM | 1 | 0 | 18.34 | 18.27 | 18.28 | 18.12 | 19.70 |
| | | 1 | 25 | 18.33 | 18.21 | 17.93 | 18.13 | 19.70 |
| | | 1 | 49 | 18.34 | 18.08 | 18.57 | 17.92 | 19.70 |
| | | 25 | 0 | 18.14 | 18.02 | 18.15 | 18.11 | 19.70 |
| | | 25 | 13 | 18.16 | 18.09 | 18.05 | 18.02 | 19.70 |
| | | 25 | 25 | 18.29 | 18.01 | 18.20 | 18.23 | 19.70 |
| | | 50 | 0 | 18.13 | 17.93 | 18.11 | 18.07 | 19.70 |

| Bandwidth | Modulation | RB size | RB offset | Channel 40215 | Channel 40532 | Channel 40848 | Channel 41165 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 18.17 | 18.17 | 18.24 | 18.33 | 19.70 |
| | | 1 | 38 | 18.38 | 18.31 | 18.13 | 18.08 | 19.70 |
| | | 1 | 74 | 18.34 | 18.16 | 18.20 | 18.10 | 19.70 |
| | | 36 | 0 | 18.31 | 18.14 | 18.21 | 18.24 | 19.70 |
| | | 36 | 18 | 18.32 | 18.06 | 18.12 | 18.18 | 19.70 |
| | | 36 | 39 | 18.31 | 18.14 | 18.17 | 18.18 | 19.70 |
| | | 75 | 0 | 18.35 | 18.13 | 18.16 | 18.30 | 19.70 |
| | 16QAM | 1 | 0 | 18.47 | 18.40 | 17.80 | 18.31 | 19.70 |
| | | 1 | 38 | 18.38 | 18.31 | 18.05 | 17.72 | 19.70 |
| | | 1 | 74 | 18.27 | 18.32 | 18.34 | 18.49 | 19.70 |
| | | 36 | 0 | 18.32 | 18.12 | 18.36 | 18.18 | 19.70 |
| | | 36 | 18 | 18.23 | 17.99 | 18.24 | 18.12 | 19.70 |
| | | 36 | 39 | 18.31 | 18.18 | 18.31 | 18.12 | 19.70 |
| | | 75 | 0 | 18.24 | 17.99 | 18.20 | 18.08 | 19.70 |
| | 64QAM | 1 | 0 | 18.44 | 18.37 | 17.80 | 18.24 | 19.70 |
| | | 1 | 38 | 18.33 | 18.28 | 18.04 | 18.02 | 19.70 |
| | | 1 | 74 | 18.18 | 18.24 | 18.29 | 18.37 | 19.70 |
| | | 36 | 0 | 18.26 | 18.05 | 18.36 | 18.13 | 19.70 |
| | | 36 | 18 | 18.20 | 17.96 | 18.22 | 18.03 | 19.70 |
| | | 36 | 39 | 18.25 | 18.12 | 18.24 | 18.09 | 19.70 |
| | | 75 | 0 | 18.15 | 18.01 | 18.16 | 18.05 | 19.70 |

| Bandwidth | Modulation | RB size | RB offset | Channel 40240 | Channel 40540 | Channel 40840 | Channel 41140 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 20MHz | QPSK | 1 | 0 | 18.03 | 18.10 | 18.02 | 18.08 | 19.70 |
| | | 1 | 50 | 18.15 | 18.17 | 18.17 | 18.07 | 19.70 |
| | | 1 | 99 | 18.08 | 17.91 | 18.13 | 18.11 | 19.70 |
| | | 50 | 0 | 18.29 | 18.36 | 18.11 | 18.33 | 19.70 |
| | | 50 | 25 | 18.22 | 18.17 | 18.16 | 18.25 | 19.70 |
| | | 50 | 50 | 18.21 | 18.09 | 18.25 | 18.13 | 19.70 |
| | | 100 | 0 | 18.28 | 18.10 | 18.20 | 18.25 | 19.70 |
| | 16QAM | 1 | 0 | 18.35 | 18.02 | 18.29 | 18.44 | 19.70 |
| | | 1 | 50 | 18.37 | 18.11 | 18.25 | 18.59 | 19.70 |
| | | 1 | 99 | 18.25 | 18.06 | 18.02 | 18.24 | 19.70 |
| | | 50 | 0 | 18.07 | 18.30 | 18.10 | 18.19 | 19.70 |
| | | 50 | 25 | 18.11 | 18.13 | 18.14 | 18.17 | 19.70 |
| | | 50 | 50 | 18.07 | 17.93 | 18.09 | 18.12 | 19.70 |
| | | 100 | 0 | 18.15 | 18.17 | 18.18 | 18.18 | 19.70 |
| | 64QAM | 1 | 0 | 18.55 | 18.55 | 18.35 | 18.47 | 19.70 |
| | | 1 | 50 | 17.96 | 18.21 | 17.86 | 18.35 | 19.70 |
| | | 1 | 99 | 18.56 | 18.27 | 18.48 | 18.31 | 19.70 |
| | | 50 | 0 | 18.33 | 18.05 | 18.23 | 18.14 | 19.70 |
| | | 50 | 25 | 18.09 | 18.08 | 18.11 | 18.15 | 19.70 |
| | | 50 | 50 | 18.32 | 18.08 | 18.17 | 18.20 | 19.70 |
| | | 100 | 0 | 18.19 | 18.01 | 18.16 | 18.12 | 19.70 |



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

| LTE Band 41 WiFi 2.4G(Rec on)/WiFi 2.4G(Rec on)+BT/WiFi 2.4G+5G(Rec on)/WiFi 2.4G+5G(Rec on)+BT | | | | Conducted Power(dBm) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40165 | Channel 40515 | Channel 40865 | Channel 41215 | Tune up |
| **5MHz** | QPSK | 1 | 0 | 14.08 | 14.03 | 13.96 | 14.08 | 15.70 |
| | | 1 | 13 | 14.09 | 14.11 | 14.17 | 14.12 | 15.70 |
| | | 1 | 24 | 14.05 | 13.91 | 14.14 | 14.04 | 15.70 |
| | | 12 | 0 | 14.19 | 14.27 | 14.06 | 14.33 | 15.70 |
| | | 12 | 6 | 14.18 | 14.12 | 14.07 | 14.22 | 15.70 |
| | | 12 | 13 | 14.21 | 14.07 | 14.24 | 14.14 | 15.70 |
| | | 25 | 0 | 14.25 | 14.06 | 14.23 | 14.23 | 15.70 |
| | 16QAM | 1 | 0 | 14.37 | 14.06 | 14.19 | 14.45 | 15.70 |
| | | 1 | 13 | 14.34 | 14.01 | 14.21 | 14.51 | 15.70 |
| | | 1 | 24 | 14.24 | 14.02 | 13.94 | 14.27 | 15.70 |
| | | 12 | 0 | 14.01 | 14.26 | 14.03 | 14.15 | 15.70 |
| | | 12 | 6 | 14.08 | 14.11 | 14.06 | 14.23 | 15.70 |
| | | 12 | 13 | 14.06 | 13.85 | 14.12 | 14.06 | 15.70 |
| | | 25 | 0 | 14.08 | 14.20 | 14.18 | 14.17 | 15.70 |
| | 64QAM | 1 | 0 | 14.42 | 14.03 | 14.30 | 14.50 | 15.70 |
| | | 1 | 13 | 14.37 | 14.05 | 14.30 | 14.51 | 15.70 |
| | | 1 | 24 | 14.25 | 14.16 | 13.98 | 14.24 | 15.70 |
| | | 12 | 0 | 14.06 | 14.34 | 14.14 | 14.16 | 15.70 |
| | | 12 | 6 | 14.07 | 14.14 | 14.10 | 14.24 | 15.70 |
| | | 12 | 13 | 14.03 | 13.97 | 14.13 | 14.06 | 15.70 |
| | | 25 | 0 | 14.12 | 14.16 | 14.20 | 14.17 | 15.70 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40190 | Channel 40523 | Channel 40857 | Channel 41190 | Tune up |
| **10MHz** | QPSK | 1 | 0 | 14.06 | 13.98 | 14.02 | 14.04 | 15.70 |
| | | 1 | 25 | 14.11 | 14.13 | 13.99 | 14.05 | 15.70 |
| | | 1 | 49 | 14.07 | 14.09 | 14.13 | 14.12 | 15.70 |
| | | 25 | 0 | 14.28 | 14.07 | 14.24 | 14.22 | 15.70 |
| | | 25 | 13 | 14.30 | 14.02 | 14.10 | 14.21 | 15.70 |
| | | 25 | 25 | 14.31 | 14.00 | 14.26 | 14.22 | 15.70 |
| | | 50 | 0 | 14.35 | 14.04 | 14.12 | 14.20 | 15.70 |
| | 16QAM | 1 | 0 | 14.37 | 14.28 | 14.27 | 14.08 | 15.70 |
| | | 1 | 25 | 14.29 | 14.25 | 13.95 | 14.15 | 15.70 |
| | | 1 | 49 | 14.33 | 14.10 | 14.61 | 13.92 | 15.70 |
| | | 25 | 0 | 14.15 | 14.04 | 14.26 | 14.21 | 15.70 |
| | | 25 | 13 | 14.23 | 14.09 | 14.06 | 14.04 | 15.70 |
| | | 25 | 25 | 14.25 | 13.98 | 14.27 | 14.25 | 15.70 |
| | | 50 | 0 | 14.12 | 13.97 | 14.10 | 14.11 | 15.70 |
| | 64QAM | 1 | 0 | 14.38 | 14.32 | 14.31 | 14.18 | 15.70 |
| | | 1 | 25 | 14.39 | 14.28 | 13.97 | 14.18 | 15.70 |
| | | 1 | 49 | 14.37 | 14.16 | 14.68 | 14.00 | 15.70 |
| | | 25 | 0 | 14.18 | 14.07 | 14.23 | 14.14 | 15.70 |
| | | 25 | 13 | 14.23 | 14.17 | 14.11 | 14.08 | 15.70 |
| | | 25 | 25 | 14.35 | 14.05 | 14.28 | 14.30 | 15.70 |
| | | 50 | 0 | 14.17 | 14.01 | 14.17 | 14.14 | 15.70 |

| Bandwidth | Modulation | RB size | RB offset | Channel 40215 | Channel 40532 | Channel 40848 | Channel 41165 | Tune up |
|---|---|---|---|---|---|---|---|---|
| 15MHz | QPSK | 1 | 0 | 14.14 | 14.12 | 14.19 | 14.29 | 15.70 |
| | | 1 | 38 | 14.33 | 14.29 | 14.12 | 14.08 | 15.70 |
| | | 1 | 74 | 14.30 | 14.15 | 14.16 | 14.04 | 15.70 |
| | | 36 | 0 | 14.28 | 14.08 | 14.19 | 14.20 | 15.70 |
| | | 36 | 18 | 14.29 | 14.03 | 14.09 | 14.16 | 15.70 |
| | | 36 | 39 | 14.25 | 14.10 | 14.13 | 14.15 | 15.70 |
| | | 75 | 0 | 14.31 | 14.09 | 14.12 | 14.29 | 15.70 |
| | 16QAM | 1 | 0 | 14.41 | 14.35 | 13.77 | 14.30 | 15.70 |
| | | 1 | 38 | 14.33 | 14.28 | 14.02 | 13.71 | 15.70 |
| | | 1 | 74 | 14.21 | 14.26 | 14.29 | 14.46 | 15.70 |
| | | 36 | 0 | 14.29 | 14.11 | 14.31 | 14.15 | 15.70 |
| | | 36 | 18 | 14.20 | 13.93 | 14.23 | 14.08 | 15.70 |
| | | 36 | 39 | 14.31 | 14.14 | 14.25 | 14.09 | 15.70 |
| | | 75 | 0 | 14.19 | 13.99 | 14.20 | 14.04 | 15.70 |
| | 64QAM | 1 | 0 | 14.52 | 14.46 | 13.87 | 14.31 | 15.70 |
| | | 1 | 38 | 14.39 | 14.36 | 14.09 | 14.11 | 15.70 |
| | | 1 | 74 | 14.24 | 14.28 | 14.35 | 14.42 | 15.70 |
| | | 36 | 0 | 14.33 | 14.13 | 14.44 | 14.16 | 15.70 |
| | | 36 | 18 | 14.26 | 14.00 | 14.27 | 14.07 | 15.70 |
| | | 36 | 39 | 14.28 | 14.18 | 14.32 | 14.17 | 15.70 |
| | | 75 | 0 | 14.20 | 14.10 | 14.24 | 14.08 | 15.70 |
| **Bandwidth** | Modulation | RB size | RB offset | Channel 40240 | Channel 40540 | Channel 40840 | Channel 41140 | Tune up |
| 20MHz | QPSK | 1 | 0 | 14.03 | 14.05 | 14.01 | 14.06 | 15.70 |
| | | 1 | 50 | 14.15 | 14.12 | 14.16 | 14.04 | 15.70 |
| | | 1 | 99 | 14.06 | 13.86 | 14.08 | 14.10 | 15.70 |
| | | 50 | 0 | 14.28 | 14.32 | 14.06 | 14.29 | 15.70 |
| | | 50 | 25 | 14.20 | 14.13 | 14.14 | 14.20 | 15.70 |
| | | 50 | 50 | 14.20 | 14.04 | 14.20 | 14.11 | 15.70 |
| | | 100 | 0 | 14.22 | 14.05 | 14.20 | 14.19 | 15.70 |
| | 16QAM | 1 | 0 | 14.33 | 14.01 | 14.27 | 14.41 | 15.70 |
| | | 1 | 50 | 14.32 | 14.08 | 14.20 | 14.53 | 15.70 |
| | | 1 | 99 | 14.21 | 14.01 | 13.98 | 14.19 | 15.70 |
| | | 50 | 0 | 14.02 | 14.24 | 14.06 | 14.18 | 15.70 |
| | | 50 | 25 | 14.08 | 14.08 | 14.09 | 14.13 | 15.70 |
| | | 50 | 50 | 14.07 | 13.92 | 14.09 | 14.08 | 15.70 |
| | | 100 | 0 | 14.09 | 14.13 | 14.12 | 14.13 | 15.70 |
| | 64QAM | 1 | 0 | 14.50 | 14.52 | 14.41 | 14.51 | 15.70 |
| | | 1 | 50 | 14.05 | 14.27 | 13.91 | 14.43 | 15.70 |
| | | 1 | 99 | 14.51 | 14.32 | 14.52 | 14.36 | 15.70 |
| | | 50 | 0 | 14.39 | 14.14 | 14.30 | 14.18 | 15.70 |
| | | 50 | 25 | 14.17 | 14.11 | 14.19 | 14.18 | 15.70 |
| | | 50 | 50 | 14.36 | 14.11 | 14.22 | 14.25 | 15.70 |
| | | 100 | 0 | 14.24 | 14.10 | 14.23 | 14.16 | 15.70 |

Table 16：Conducted Power of LTE

### 8.1.3 Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V12.5.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V12.3.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing and PAG requirements can be excluded.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

### 8.1.3.1 Conducted Power of Downlink LTE CA

Ant1

Full Power
Receicer on
Receicer on+BT

| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 5 | 10M | 879.1 | 2501 | 24.00 | 24.02 | 25.00 |
| CA_7C | Band 7 | 20M | QPSK | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2660.2 | 3152 | 23.49 | 23.53 | 24.70 |
| CA_38C | Band 38 | 20M | QPSK | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 23.11 | 23.16 | 24.20 |
| CA_41C | Band 41 | 20M | QPSK | 2555 | 40240 | 1 | 99 | Band 41 | 20M | 2574.8 | 40438 | 23.16 | 23.19 | 24.20 |
| CA_7A-7A | Band 7 | 20M | QPSK | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2525 | 3000 | 23.46 | 23.53 | 24.70 |
| CA_2A-5A | Band 2 | 20M | QPSK | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.15 | 23.18 | 24.00 |
| | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 23.97 | 24.02 | 25.00 |
| CA_4A-5A | Band 4 | 20M | QPSK | 1745 | 20300 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 22.96 | 22.99 | 24.00 |
| | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 23.96 | 24.02 | 25.00 |
| CA_4A-7A | Band 4 | 20M | QPSK | 1745 | 20300 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 22.98 | 22.99 | 24.00 |
| | Band 7 | 20M | QPSK | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 23.47 | 23.53 | 24.70 |
| CA_5A-7A | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 23.96 | 24.02 | 25.00 |
| | Band 7 | 20M | QPSK | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 23.49 | 23.53 | 24.70 |

Receiver off
Receiver off+BT

| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 5 | 10M | 879.1 | 2501 | 24.00 | 24.02 | 25.00 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2660.2 | 3152 | 22.65 | 22.69 | 23.70 |
| CA_38C | Band 38 | 20M | QPSK | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 23.11 | 23.16 | 24.20 |
| CA_41C | Band 41 | 20M | QPSK | 2555 | 40240 | 1 | 99 | Band 41 | 20M | 2574.8 | 40438 | 23.16 | 23.19 | 24.20 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2525 | 3000 | 22.62 | 22.69 | 23.70 |
| CA_2A-5A | Band 2 | 20M | QPSK | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.15 | 23.18 | 24.00 |
| | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 23.97 | 24.02 | 25.00 |
| CA_4A-5A | Band 4 | 20M | QPSK | 1745 | 20300 | 1 | 99 | Band 5 | 10M | 881.5 | 2525 | 22.55 | 22.58 | 23.50 |
| | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 23.96 | 24.02 | 25.00 |
| CA_4A-7A | Band 4 | 20M | QPSK | 1745 | 20300 | 1 | 99 | Band 7 | 20M | 2655 | 3100 | 22.53 | 22.58 | 23.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 22.63 | 22.69 | 23.70 |
| CA_5A-7A | Band 5 | 10M | QPSK | 844 | 20600 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 23.99 | 24.02 | 25.00 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 22.68 | 22.69 | 23.70 |

| Ant2 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Full Power<br>Receicer off<br>Receicer off+BT | | | | | | | | | | | | | | |
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 5 | 10M | 883.9 | 2549 | 24.28 | 24.32 | 25.00 |
| CA_7C | Band 7 | 20M | QPSK | 2510 | 20850 | 1 | 50 | Band 7 | 20M | 2649.8 | 3048 | 21.68 | 21.71 | 22.70 |
| CA_38C | Band 38 | 20M | QPSK | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 22.83 | 22.87 | 24.20 |
| CA_41C | Band 41 | 20M | QPSK | 2555 | 40240 | 1 | 99 | Band 41 | 20M | 2574.8 | 40438 | 22.85 | 22.88 | 24.20 |
| CA_7A-7A | Band 7 | 20M | QPSK | 2510 | 20850 | 1 | 50 | Band 7 | 20M | 2680 | 3350 | 21.69 | 21.71 | 22.70 |
| CA_2A-5A | Band 2 | 20M | QPSK | 1900 | 19100 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.51 | 23.52 | 24.00 |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 2 | 20M | 1960 | 900 | 24.27 | 24.32 | 25.00 |
| CA_4A-5A | Band 4 | 20M | QPSK | 1720 | 20050 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.46 | 23.48 | 24.00 |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 4 | 20M | 2132.5 | 2175 | 24.29 | 24.32 | 25.00 |
| CA_4A-7A | Band 4 | 20M | QPSK | 1720 | 20050 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 23.43 | 23.48 | 24.00 |
| | Band 7 | 20M | QPSK | 2510 | 20850 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 21.66 | 21.71 | 22.70 |
| CA_5A-7A | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 7 | 20M | 2655 | 3100 | 24.26 | 24.32 | 25.00 |
| | Band 7 | 20M | QPSK | 2510 | 20850 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 21.65 | 21.71 | 22.70 |
| Receicer on<br>Receicer on+BT | | | | | | | | | | | | | | |
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 5 | 10M | 883.9 | 2549 | 21.71 | 21.76 | 22.50 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2660.2 | 3152 | 16.48 | 16.52 | 17.20 |
| CA_38C | Band 38 | 20M | 16QAM | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 19.48 | 19.54 | 20.70 |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 0 | Band 41 | 20M | 2625.2 | 40942 | 19.25 | 19.28 | 20.20 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2645 | 3000 | 16.48 | 16.52 | 17.20 |
| CA_2A-5A | Band 2 | 20M | 64QAM | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 19.71 | 19.72 | 20.50 |
| CA_2A-5A | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 21.74 | 21.76 | 22.50 |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 5 | 10M | 881.5 | 2525 | 18.62 | 18.64 | 19.00 |
| | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 21.73 | 21.76 | 22.50 |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 7 | 20M | 2655 | 3100 | 18.63 | 18.64 | 19.00 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 16.47 | 16.52 | 17.20 |
| CA_5A-7A | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 21.69 | 21.76 | 22.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 16.44 | 16.52 | 17.20 |

| Second antenna+WiFi 2.4G(Rec off)<br>Second antenna+WiFi 2.4G(Rec off)+BT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 49 | Band 5 | 10M | 883.9 | 2549 | 22.85 | 22.88 | 23.50 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2660.2 | 3152 | 17.92 | 17.94 | 18.70 |
| CA_38C | Band 38 | 20M | QPSK | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 22.83 | 22.87 | 24.20 |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 50 | Band 41 | 20M | 2625.2 | 40942 | 18.55 | 18.58 | 19.70 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2645 | 3000 | 17.92 | 17.94 | 18.70 |
| CA_2A-5A | Band 2 | 20M | QPSK | 1900 | 19100 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.51 | 23.52 | 24.00 |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 2 | 20M | 1960 | 900 | 24.27 | 24.32 | 25.00 |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 5 | 10M | 881.5 | 2525 | 18.93 | 18.96 | 19.50 |
| | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 49 | Band 4 | 20M | 2132.5 | 2175 | 22.87 | 22.88 | 23.50 |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 7 | 20M | 2655 | 3100 | 18.91 | 18.96 | 19.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 17.90 | 17.94 | 18.70 |
| CA_5A-7A | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 49 | Band 7 | 20M | 2655 | 3100 | 22.82 | 22.88 | 23.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 17.93 | 17.94 | 18.70 |
| Second antenna+WiFi 2.4G(Rec on)<br>Second antenna+WiFi 2.4G(Rec on)+BT | | | | | | | | | | | | | | |
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 0 | Band 5 | 10M | 883.9 | 2549 | 20.31 | 20.36 | 21.00 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 7 | 20M | 2660.2 | 3152 | 12.45 | 12.47 | 13.20 |
| CA_38C | Band 38 | 20M | 16QAM | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 19.48 | 19.54 | 20.70 |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 50 | Band 41 | 20M | 2625.2 | 40942 | 14.51 | 14.53 | 15.70 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 7 | 20M | 2645 | 3000 | 12.40 | 12.47 | 13.20 |
| CA_2A-5A | Band 2 | 20M | 64QAM | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 19.71 | 19.72 | 20.50 |
| | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 21.74 | 21.76 | 22.50 |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1745 | 20300 | 1 | 50 | Band 5 | 10M | 881.5 | 2525 | 13.85 | 13.89 | 14.80 |
| | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 20.34 | 20.36 | 21.00 |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1745 | 20300 | 1 | 50 | Band 7 | 20M | 2655 | 3100 | 13.83 | 13.89 | 14.80 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 12.42 | 12.47 | 13.20 |
| CA_5A-7A | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 20.35 | 20.36 | 21.00 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 12.41 | 12.47 | 13.20 |



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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86–755) 26012053 f (86–755) 26710594 sgs.china@sgs.com

| Second antenna+WiFi 5G(Rec off)<br>Second antenna+WiFi 5G(Rec off)+BT | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up | |
| CA_5B | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 0 | Band 5 | 10M | 883.9 | 2549 | 23.23 | 23.26 | 24.00 | |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2660.2 | 3152 | 20.47 | 20.51 | 21.70 | |
| CA_38C | Band 38 | 20M | QPSK | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 22.83 | 22.87 | 24.20 | |
| CA_41C | Band 41 | 20M | QPSK | 2555 | 40240 | 1 | 99 | Band 41 | 20M | 2574.8 | 40438 | 22.85 | 22.88 | 24.20 | |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2645 | 3000 | 20.44 | 20.51 | 21.70 | |
| CA_2A-5A | Band 2 | 20M | QPSK | 1900 | 19100 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.51 | 23.52 | 24.00 | |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 2 | 20M | 1960 | 900 | 24.27 | 24.32 | 25.00 | |
| CA_4A-5A | Band 4 | 20M | QPSK | 1720 | 20050 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.46 | 23.48 | 24.00 | |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 4 | 20M | 2132.5 | 2175 | 24.29 | 24.32 | 25.00 | |
| CA_4A-7A | Band 4 | 20M | QPSK | 1720 | 20050 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 23.41 | 23.48 | 24.00 | |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 20.46 | 20.51 | 21.70 | |
| CA_5A-7A | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 23.22 | 23.26 | 24.00 | |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 20.43 | 20.51 | 21.70 | |
| Second antenna+WiFi 5G(Rec on)<br>Second antenna+WiFi 5G(Rec on)+BT | | | | | | | | | | | | | | | |
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up | |
| CA_5B | Band 5 | 10M | 64QAM | 844 | 20600 | 1 | 25 | Band 5 | 10M | 889 | 2600 | 20.58 | 20.63 | 21.50 | |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2660.2 | 3152 | 15.28 | 15.32 | 16.20 | |
| CA_38C | Band 38 | 20M | 16QAM | 2610 | 38150 | 1 | 99 | Band 38 | 20M | 2590.2 | 37952 | 19.48 | 19.54 | 20.70 | |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 0 | Band 41 | 20M | 2625.2 | 40942 | 19.25 | 19.28 | 20.20 | |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 7 | 20M | 2645 | 3000 | 15.29 | 15.32 | 16.20 | |
| CA_2A-5A | Band 2 | 20M | 64QAM | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 19.71 | 19.72 | 20.50 | |
| | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 21.74 | 21.76 | 22.50 | |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 5 | 10M | 881.5 | 2525 | 18.62 | 18.64 | 19.00 | |
| | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 21.73 | 21.76 | 22.50 | |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 7 | 20M | 2655 | 3100 | 18.60 | 18.64 | 19.00 | |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 15.27 | 15.32 | 16.20 | |
| CA_5A-7A | Band 5 | 10M | 64QAM | 844 | 20600 | 1 | 25 | Band 7 | 20M | 2655 | 3100 | 20.59 | 20.63 | 21.50 | |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 50 | Band 4 | 20M | 2132.5 | 2175 | 15.26 | 15.32 | 16.20 | |

| Second antenna+WiFi 2.4G+5G(Rec off)<br>Second antenna+WiFi 2.4G+5G(Rec off)+BT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 0 | Band 5 | 10M | 883.9 | 2549 | 22.24 | 22.28 | 23.00 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2660.2 | 3152 | 17.92 | 17.94 | 18.70 |
| CA_38C | Band 38 | 20M | QPSK | 2580 | 37850 | 1 | 0 | Band 38 | 20M | 2599.8 | 38048 | 22.21 | 22.25 | 23.70 |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 50 | Band 41 | 20M | 2625.2 | 40942 | 18.55 | 18.58 | 19.70 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 7 | 20M | 2645 | 3000 | 17.88 | 17.94 | 18.70 |
| CA_2A-5A | Band 2 | 20M | QPSK | 1900 | 19100 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 23.51 | 23.52 | 24.00 |
| | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 49 | Band 2 | 20M | 1960 | 900 | 24.27 | 24.32 | 25.00 |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 5 | 10M | 881.5 | 2525 | 18.93 | 18.96 | 19.50 |
| | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 49 | Band 4 | 20M | 2132.5 | 2175 | 22.87 | 22.88 | 23.50 |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1720 | 20050 | 1 | 99 | Band 7 | 20M | 2655 | 3100 | 18.92 | 18.96 | 19.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 17.88 | 17.94 | 18.70 |
| CA_5A-7A | Band 5 | 10M | QPSK | 829 | 20450 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 22.21 | 22.28 | 23.00 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 99 | Band 4 | 20M | 2132.5 | 2175 | 17.88 | 17.94 | 18.70 |
| Second antenna+WiFi 2.4G+5G(Rec on)<br>Second antenna+WiFi 2.4G+5G(Rec on)+BT | | | | | | | | | | | | | | |
| DL LTE CA Class | PCC | | | | | | | SCC1 | | | | Power(dBm) | | |
| | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx.Power | LTE Rel 8 Tx.Power | Tune-up |
| CA_5B | Band 5 | 10M | 16QAM | 844 | 20600 | 1 | 0 | Band 5 | 10M | 889 | 2600 | 19.76 | 19.80 | 20.50 |
| CA_7C | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 7 | 20M | 2660.2 | 3152 | 12.45 | 12.47 | 13.20 |
| CA_38C | Band 38 | 20M | 16QAM | 2580 | 37850 | 1 | 50 | Band 38 | 20M | 2599.8 | 38048 | 18.96 | 18.99 | 20.20 |
| CA_41C | Band 41 | 20M | 16QAM | 2645 | 41140 | 1 | 50 | Band 41 | 20M | 2625.2 | 40942 | 14.51 | 14.53 | 15.70 |
| CA_7A-7A | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 7 | 20M | 2645 | 3000 | 12.40 | 12.47 | 13.20 |
| CA_2A-5A | Band 2 | 20M | 64QAM | 1860 | 18700 | 1 | 0 | Band 5 | 10M | 881.5 | 2525 | 19.71 | 19.72 | 20.50 |
| | Band 5 | 10M | 64QAM | 829 | 20450 | 1 | 0 | Band 2 | 20M | 1960 | 900 | 21.74 | 21.76 | 22.50 |
| CA_4A-5A | Band 4 | 20M | 16QAM | 1745 | 20300 | 1 | 50 | Band 5 | 10M | 881.5 | 2525 | 13.85 | 13.89 | 14.80 |
| | Band 5 | 10M | 16QAM | 829 | 20450 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 20.34 | 20.36 | 21.00 |
| CA_4A-7A | Band 4 | 20M | 16QAM | 1745 | 20300 | 1 | 50 | Band 7 | 20M | 2655 | 3100 | 13.81 | 13.89 | 14.80 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 12.42 | 12.47 | 13.20 |
| CA_5A-7A | Band 5 | 10M | 16QAM | 844 | 20600 | 1 | 0 | Band 7 | 20M | 2655 | 3100 | 19.77 | 19.80 | 20.50 |
| | Band 7 | 20M | 16QAM | 2560 | 21350 | 1 | 0 | Band 4 | 20M | 2132.5 | 2175 | 12.42 | 12.47 | 13.20 |

Table 17：Conducted Power of Downlink LTE CA
Note: The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

### 8.1.4 Conducted Power of WIFI and BT

| WiFi 2.4G Core0 Full Power | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|---|---|---|---|---|---|---|
| 802.11b | 1 | 2412 | 11 | 19.00 | 17.01 | No |
| | 5 | 2432 | | 19.00 | 17.44 | No |
| | 6 | 2437 | | 18.50 | 17.08 | No |
| | 7 | 2442 | | 18.50 | 17.04 | No |
| | 8 | 2447 | | 19.00 | 17.29 | No |
| | 11 | 2462 | | 19.00 | **17.78** | Yes |
| 802.11g | 1 | 2412 | 6 | 14.00 | 12.73 | No |
| | 2 | 2417 | | 18.50 | 17.12 | No |
| | 6 | 2437 | | 18.50 | 17.08 | No |
| | 10 | 2457 | | 18.50 | 17.10 | No |
| | 11 | 2462 | | 14.00 | 12.97 | No |
| 802.11n HT20 | 1 | 2412 | 6.5 | 14.00 | 12.66 | No |
| | 2 | 2417 | | 18.00 | 16.56 | No |
| | 6 | 2437 | | 18.00 | 16.88 | No |
| | 10 | 2457 | | 18.00 | 16.67 | No |
| | 11 | 2462 | | 14.00 | 12.87 | No |
| 802.11n HT40 | 3 | 2422 | 13.5 | 12.00 | 11.31 | No |
| | 4 | 2427 | | 16.00 | 14.99 | No |
| | 5 | 2432 | | 18.00 | 16.86 | No |
| | 6 | 2437 | | 16.00 | 14.87 | No |
| | 7 | 2442 | | 14.00 | 12.98 | No |
| | 8 | 2447 | | 12.00 | 10.89 | No |
| | 9 | 2452 | | 12.00 | 11.17 | No |
| WiFi 2.4G Core1 Full Power | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b | 1 | 2412 | 11 | 19.00 | 17.13 | No |
| | 5 | 2432 | | 19.00 | 17.65 | No |
| | 6 | 2437 | | 18.50 | 17.21 | No |
| | 7 | 2442 | | 18.50 | 16.88 | No |
| | 8 | 2447 | | 19.00 | 17.06 | No |
| | 11 | 2462 | | 19.00 | **17.74** | Yes |
| 802.11g | 1 | 2412 | 6 | 14.00 | 12.39 | No |
| | 2 | 2417 | | 18.50 | 16.57 | No |
| | 6 | 2437 | | 18.50 | 17.06 | No |
| | 10 | 2457 | | 18.50 | 16.57 | No |
| | 11 | 2462 | | 14.00 | 12.27 | No |
| 802.11n HT20 | 1 | 2412 | 6.5 | 14.00 | 12.20 | No |
| | 2 | 2417 | | 18.00 | 16.08 | No |
| | 6 | 2437 | | 18.00 | 16.45 | No |
| | 10 | 2457 | | 18.00 | 16.05 | No |
| | 11 | 2462 | | 14.00 | 12.15 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 802.11n HT40 | 3 | 2422 | 13.5 | 12.00 | 10.65 | No |
| | 4 | 2427 | | 16.00 | 14.24 | No |
| | 5 | 2432 | | 18.00 | 16.04 | No |
| | 6 | 2437 | | 16.00 | 14.15 | No |
| | 7 | 2442 | | 14.00 | 12.14 | No |
| | 8 | 2447 | | 12.00 | 10.28 | No |
| | 9 | 2452 | | 12.00 | 10.41 | No |
| WiFi 2.4G CDD/MIMO Full Power wifi only | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11g CDD | 1 | 2412 | 6M | 17.00 | 16.01 | No |
| | 2 | 2417 | | 21.50 | 19.73 | No |
| | 6 | 2437 | | 21.50 | 20.04 | No |
| | 10 | 2457 | | 21.50 | 19.68 | No |
| | 11 | 2462 | | 17.00 | 15.67 | No |
| 802.11n HT20 MIMO | 1 | 2412 | MCS8 | 17.00 | 15.50 | No |
| | 2 | 2417 | | 21.00 | 19.00 | No |
| | 6 | 2437 | | 21.00 | 19.42 | No |
| | 10 | 2457 | | 21.00 | 19.08 | No |
| | 11 | 2462 | | 17.00 | 15.66 | No |
| 802.11n HT40 MIMO | 3 | 2422 | MCS8 | 15.00 | 13.65 | No |
| | 4 | 2427 | | 19.00 | 17.54 | No |
| | 5 | 2432 | | 21.00 | 19.42 | No |
| | 6 | 2437 | | 19.00 | 17.67 | No |
| | 7 | 2442 | | 17.00 | 15.68 | No |
| | 8 | 2447 | | 15.00 | 13.67 | No |
| | 9 | 2452 | | 15.00 | 13.62 | No |


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| Conducted Power of WiFi 2.4G Receiver On (MCC of FCC country) | | | | | | |
|---|---|---|---|---|---|---|
| WiFi 2.4G Core0 Receiver On | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b | 1 | 2412 | 11 | 12.10 | **10.56** | Yes |
| | 6 | 2437 | | 12.10 | 10.27 | No |
| | 11 | 2462 | | 12.10 | 10.48 | No |
| 802.11g | 1 | 2412 | 6 | 12.00 | 10.50 | No |
| | 6 | 2437 | | 12.00 | 10.90 | No |
| | 11 | 2462 | | 12.00 | 10.47 | No |
| 802.11n HT20 | 1 | 2412 | 6.5 | 12.00 | 10.11 | No |
| | 6 | 2437 | | 12.00 | 10.75 | No |
| | 11 | 2462 | | 12.00 | 10.30 | No |
| 802.11n HT40 | 3 | 2422 | 13.5 | 12.00 | 10.24 | No |
| | 6 | 2437 | | 12.00 | 10.61 | No |
| | 9 | 2452 | | 12.00 | 10.43 | No |
| WiFi 2.4G Core1 Receiver On | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b | 1 | 2412 | 11 | 12.10 | 10.23 | No |
| | 6 | 2437 | | 12.10 | 10.12 | No |
| | 11 | 2462 | | 12.10 | **10.25** | Yes |
| 802.11g | 1 | 2412 | 6 | 12.00 | 11.04 | No |
| | 6 | 2437 | | 12.00 | 11.10 | No |
| | 11 | 2462 | | 12.00 | 11.13 | No |
| 802.11n HT20 | 1 | 2412 | 6.5 | 12.00 | 10.78 | No |
| | 6 | 2437 | | 12.00 | 10.90 | No |
| | 11 | 2462 | | 12.00 | 11.07 | No |
| 802.11n HT40 | 3 | 2422 | 13.5 | 12.00 | 10.67 | No |
| | 6 | 2437 | | 12.00 | 10.56 | No |
| | 9 | 2452 | | 12.00 | 10.55 | No |
| WiFi 2.4G CDD/MIMO Receiver On | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11g CDD | 1 | 2412 | 6M | 15.00 | 13.79 | No |
| | 6 | 2437 | | 15.00 | 14.01 | No |
| | 11 | 2462 | | 15.00 | 13.82 | No |
| 802.11n HT20 MIMO | 1 | 2412 | MCS8 | 15.00 | 13.47 | No |
| | 6 | 2437 | | 15.00 | 13.84 | No |
| | 11 | 2462 | | 15.00 | 13.71 | No |
| 802.11n HT40 MIMO | 3 | 2422 | MCS8 | 15.00 | 13.47 | No |
| | 6 | 2437 | | 15.00 | 13.60 | No |
| | 9 | 2452 | | 15.00 | 13.50 | No |

| Conducted Power of WiFi 2.4G Receiver On (MCC of CE country) | | | | |
|---|---|---|---|---|
| WiFi 2.4G Core0 Receiver On | Average Power (dBm) for Data Rates (Mbps) | | | |
| | Channel | 1 | 11 | Tune up |
| 802.11b | 1 | 15.41 | 15.35 | 17.10 |
| | 5 | 15.94 | 15.86 | 17.10 |
| | 6 | 15.11 | 14.92 | 17.00 |
| | 7 | 15.04 | 14.87 | 17.00 |
| | 8 | 15.65 | 15.49 | 17.10 |
| | 13 | 15.95 | 16.01 | 17.10 |
| 802.11g | Channel | 6 | 54 | Tune up |
| | 1 | 15.34 | 14.76 | 17.00 |
| | 7 | 15.28 | 14.74 | 17.00 |
| | 13 | 15.64 | 15.19 | 17.00 |
| 802.11n HT20 | Channel | 6.5 | 65 | Tune up |
| | 1 | 15.18 | 14.61 | 17.00 |
| | 7 | 15.14 | 14.67 | 17.00 |
| | 13 | 15.53 | 14.99 | 17.00 |
| 802.11n HT40 | Channel | 13.5 | 135 | Tune up |
| | 3 | 15.28 | 14.82 | 17.00 |
| | 7 | 15.34 | 14.91 | 17.00 |
| | 11 | 15.31 | 14.95 | 17.00 |
| WiFi 2.4G Core1 Receiver On | Average Power (dBm) for Data Rates (Mbps) | | | |
| | Channel | 1 | 11 | Tune up |
| 802.11b | 1 | 15.45 | 15.22 | 17.10 |
| | 5 | 16.21 | 15.88 | 17.10 |
| | 6 | 15.23 | 15.38 | 17.00 |
| | 7 | 15.16 | 15.03 | 17.00 |
| | 8 | 15.38 | 15.19 | 17.10 |
| | 13 | 15.64 | 15.62 | 17.10 |
| 802.11g | Channel | 6 | 54 | Tune up |
| | 1 | 15.77 | 15.25 | 17.00 |
| | 7 | 15.82 | 15.04 | 17.00 |
| | 13 | 15.68 | 15.43 | 17.00 |
| 802.11n HT20 | Channel | 6.5 | 65 | Tune up |
| | 1 | 15.45 | 15.23 | 17.00 |
| | 7 | 15.58 | 15.21 | 17.00 |
| | 13 | 15.57 | 15.28 | 17.00 |
| 802.11n HT40 | Channel | 13.5 | 135 | Tune up |
| | 3 | 15.64 | 15.14 | 17.00 |
| | 7 | 15.49 | 15.11 | 17.00 |
| | 11 | 15.34 | 15.08 | 17.00 |
| WiFi 2.4G CDD/MIMO Receiver On | Channel | Data Rate(Mbps) | Tune up | Average Power (dBm) |
| 802.11g CDD | 1 | 6M | 20.00 | 18.57 |
| | 7 | | 20.00 | 18.57 |
| | 13 | | 20.00 | 18.67 |

| | | | | |
|---|---|---|---|---|
| 802.11n HT20 MIMO | 1 | MCS8 | 20.00 | 18.33 |
| | 7 | | 20.00 | 18.38 |
| | 13 | | 20.00 | 18.56 |
| 802.11n HT40 MIMO | 3 | MCS8 | 20.00 | 18.47 |
| | 7 | | 20.00 | 18.43 |
| | 11 | | 20.00 | 18.34 |

| WiFi 5G Full Power | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
|---|---|---|---|---|---|---|---|
| 802.11a | U-NII-1 | 36 | 5180 | 6 | 12.00 | 10.83 | No |
| | | 40 | 5200 | | 17.50 | 16.37 | No |
| | | 44 | 5220 | | 17.50 | 16.48 | No |
| | | 48 | 5240 | | 17.50 | **16.59** | Yes |
| | U-NII-2A | 52 | 5260 | | 17.50 | 16.64 | No |
| | | 56 | 5280 | | 17.50 | 16.66 | No |
| | | 60 | 5300 | | 17.50 | **16.67** | Yes |
| | | 64 | 5320 | | 12.00 | 11.76 | No |
| | U-NII-2C | 100 | 5500 | | 12.00 | 11.62 | No |
| | | 104 | 5520 | | 17.50 | **16.78** | Yes |
| | | 108 | 5540 | | 17.50 | 16.65 | No |
| | | 112 | 5560 | | 17.50 | 16.52 | No |
| | | 116 | 5580 | | 17.50 | 16.33 | No |
| | | 120 | 5600 | | 17.50 | 16.13 | No |
| | | 124 | 5620 | | 17.50 | 15.91 | No |
| | | 128 | 5640 | | 17.50 | 15.71 | No |
| | | 132 | 5660 | | 17.50 | 16.06 | No |
| | | 136 | 5680 | | 17.50 | 15.94 | No |
| | | 140 | 5700 | | 12.00 | 11.08 | No |
| | | 144 | 5720 | | 17.50 | 15.83 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.25 | No |
| | | 153 | 5765 | | 17.50 | 15.96 | No |
| | | 157 | 5785 | | 17.50 | 16.02 | No |
| | | 161 | 5805 | | 17.50 | **16.06** | Yes |
| | | 165 | 5825 | | 12.00 | 11.08 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20 | U-NII-1 | 36 | 5180 | MCS0 | 12.00 | 10.73 | No |
| | | 40 | 5200 | | 16.50 | 15.46 | No |
| | | 44 | 5220 | | 16.50 | 15.58 | No |
| | | 48 | 5240 | | 16.50 | 15.65 | No |
| | U-NII-2A | 52 | 5260 | | 16.50 | 15.72 | No |
| | | 56 | 5280 | | 16.50 | 15.73 | No |
| | | 60 | 5300 | | 16.50 | 15.74 | No |
| | | 64 | 5320 | | 12.00 | 11.67 | No |
| | U-NII- | 100 | 5500 | | 12.00 | 11.53 | No |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2C | 104 | 5520 | | 16.50 | 15.91 | No |
| | | 108 | 5540 | | 16.50 | 15.79 | No |
| | | 112 | 5560 | | 16.50 | 15.62 | No |
| | | 116 | 5580 | | 16.50 | 15.41 | No |
| | | 120 | 5600 | | 16.50 | 15.19 | No |
| | | 124 | 5620 | | 16.50 | 14.95 | No |
| | | 128 | 5640 | | 16.50 | 14.75 | No |
| | | 132 | 5660 | | 16.50 | 15.09 | No |
| | | 136 | 5680 | | 16.50 | 14.96 | No |
| | | 140 | 5700 | | 12.00 | 10.93 | No |
| | | 144 | 5720 | | 16.50 | 14.91 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.25 | No |
| | | 153 | 5765 | | 16.50 | 15.02 | No |
| | | 157 | 5785 | | 16.50 | 15.08 | No |
| | | 161 | 5805 | | 16.50 | 15.11 | No |
| | | 165 | 5825 | | 12.00 | 10.97 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1 | 38 | 5190 | MCS0 | 12.00 | 11.11 | No |
| | | 46 | 5230 | | 16.50 | 15.44 | No |
| | U-NII-2A | 54 | 5270 | | 16.50 | 15.52 | No |
| | | 62 | 5310 | | 12.00 | 11.43 | No |
| | U-NII-2C | 102 | 5510 | | 12.00 | 11.69 | No |
| | | 110 | 5550 | | 16.50 | 15.53 | No |
| | | 118 | 5590 | | 16.50 | 15.11 | No |
| | | 126 | 5630 | | 16.50 | 14.67 | No |
| | | 134 | 5670 | | 12.00 | 10.64 | No |
| | | 142 | 5710 | | 16.50 | 14.67 | No |
| | U-NII-3 | 151 | 5755 | | 12.00 | 11.03 | No |
| | | 159 | 5795 | | 12.00 | 11.12 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1 | 36 | 5180 | MCS0 | 12.00 | 10.57 | No |
| | | 40 | 5200 | | 16.50 | 15.46 | No |
| | | 44 | 5220 | | 16.50 | 15.58 | No |
| | | 48 | 5240 | | 16.50 | 15.65 | No |
| | U-NII-2A | 52 | 5260 | | 16.50 | 15.70 | No |
| | | 56 | 5280 | | 16.50 | 15.72 | No |
| | | 60 | 5300 | | 16.50 | 15.74 | No |
| | | 64 | 5320 | | 12.00 | 11.15 | No |
| | U-NII-2C | 100 | 5500 | | 12.00 | 11.42 | No |
| | | 104 | 5520 | | 16.50 | 15.87 | No |
| | | 108 | 5540 | | 16.50 | 15.78 | No |
| | | 112 | 5560 | | 16.50 | 15.61 | No |
| | | 116 | 5580 | | 16.50 | 15.41 | No |



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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 120 | 5600 | | 16.50 | 15.22 | No |
| | | 124 | 5620 | | 16.50 | 14.96 | No |
| | | 128 | 5640 | | 16.50 | 14.76 | No |
| | | 132 | 5660 | | 16.50 | 15.10 | No |
| | | 136 | 5680 | | 16.50 | 15.01 | No |
| | | 140 | 5700 | | 12.00 | 10.83 | No |
| | | 144 | 5720 | | 16.50 | 14.91 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.03 | No |
| | | 153 | 5765 | | 16.50 | 15.03 | No |
| | | 157 | 5785 | | 16.50 | 15.08 | No |
| | | 161 | 5805 | | 16.50 | 15.11 | No |
| | | 165 | 5825 | | 12.00 | 10.74 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 40M | U-NII-1 | 38 | 5190 | MCS0 | 12.00 | 11.09 | No |
| | | 46 | 5230 | | 16.50 | 15.43 | No |
| | U-NII-2A | 54 | 5270 | | 16.50 | 15.51 | No |
| | | 62 | 5310 | | 12.00 | 11.42 | No |
| | U-NII-2C | 102 | 5510 | | 12.00 | 11.76 | No |
| | | 110 | 5550 | | 16.50 | 15.64 | No |
| | | 118 | 5590 | | 16.50 | 15.12 | No |
| | | 126 | 5630 | | 16.50 | 14.66 | No |
| | | 134 | 5670 | | 12.00 | 10.62 | No |
| | | 142 | 5710 | | 16.50 | 14.64 | No |
| | U-NII-3 | 151 | 5755 | | 12.00 | 11.02 | No |
| | | 159 | 5795 | | 12.00 | 11.13 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 80M | U-NII-1 | 42 | 5210 | MCS0 | 12.00 | 11.15 | No |
| | U-NII-2A | 58 | 5290 | | 12.00 | 11.43 | No |
| | U-NII-2C | 106 | 5530 | | 12.00 | 11.56 | No |
| | | 122 | 5610 | | 12.00 | 10.71 | No |
| | | 138 | 5690 | | 16.50 | 14.72 | No |
| | U-NII-3 | 155 | 5775 | | 12.00 | 11.02 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 160M | / | 50 | 5250 | MCS0 | 11.50 | 10.33 | No |
| | / | 114 | 5570 | | 11.50 | 10.21 | No |

| Conducted Power of WiFi 5G Receiver On (MCC of FCC country) | | | | | | | |
|---|---|---|---|---|---|---|---|
| WiFi 5G Receiver On | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a | U-NII-1 | 36 | 5180 | 6 | 12.00 | 10.81 | No |
| | | 40 | 5200 | | 12.60 | 11.51 | No |
| | | 44 | 5220 | | 12.60 | 11.67 | No |
| | | 48 | 5240 | | 12.60 | 11.77 | No |
| | U-NII-2A | 52 | 5260 | | 12.60 | 11.91 | No |
| | | 56 | 5280 | | 12.60 | 12.00 | No |
| | | 60 | 5300 | | 12.60 | **12.08** | Yes |
| | | 64 | 5320 | | 12.00 | 11.72 | No |
| | U-NII-2C | 100 | 5500 | | 12.00 | 11.57 | No |
| | | 104 | 5520 | | 12.60 | **12.08** | Yes |
| | | 108 | 5540 | | 12.60 | 12.01 | No |
| | | 112 | 5560 | | 12.60 | 11.98 | No |
| | | 116 | 5580 | | 12.60 | 11.88 | No |
| | | 120 | 5600 | | 12.60 | 11.73 | No |
| | | 124 | 5620 | | 12.60 | 11.67 | No |
| | | 128 | 5640 | | 12.60 | 11.54 | No |
| | | 132 | 5660 | | 12.60 | 11.90 | No |
| | | 136 | 5680 | | 12.60 | 11.81 | No |
| | | 140 | 5700 | | 12.00 | 11.07 | No |
| | | 144 | 5720 | | 12.60 | 11.59 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.44 | No |
| | | 153 | 5765 | | 12.60 | 11.81 | No |
| | | 157 | 5785 | | 12.60 | **12.00** | Yes |
| | | 161 | 5805 | | 12.60 | 11.68 | No |
| | | 165 | 5825 | | 12.00 | 11.16 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20 | U-NII-1 | 36 | 5180 | MCS0 | 12.00 | 10.89 | No |
| | | 40 | 5200 | | 12.50 | 11.45 | No |
| | | 44 | 5220 | | 12.50 | 11.83 | No |
| | | 48 | 5240 | | 12.50 | 11.66 | No |
| | U-NII-2A | 52 | 5260 | | 12.50 | 11.94 | No |
| | | 56 | 5280 | | 12.50 | 11.92 | No |
| | | 60 | 5300 | | 12.50 | 12.03 | No |
| | | 64 | 5320 | | 12.00 | 11.75 | No |
| | U-NII-2C | 100 | 5500 | | 12.00 | 11.58 | No |
| | | 104 | 5520 | | 12.50 | 11.99 | No |
| | | 108 | 5540 | | 12.50 | 11.93 | No |
| | | 112 | 5560 | | 12.50 | 11.88 | No |
| | | 116 | 5580 | | 12.50 | 11.77 | No |
| | | 120 | 5600 | | 12.50 | 11.64 | No |


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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 124 | 5620 | | 12.50 | 11.57 | No |
| | | 128 | 5640 | | 12.50 | 11.45 | No |
| | | 132 | 5660 | | 12.50 | 11.85 | No |
| | | 136 | 5680 | | 12.50 | 11.74 | No |
| | | 140 | 5700 | | 12.00 | 11.10 | No |
| | | 144 | 5720 | | 12.50 | 11.48 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.38 | No |
| | | 153 | 5765 | | 12.50 | 11.72 | No |
| | | 157 | 5785 | | 12.50 | 11.67 | No |
| | | 161 | 5805 | | 12.50 | 11.56 | No |
| | | 165 | 5825 | | 12.00 | 11.09 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1 | 38 | 5190 | MCS0 | 12.00 | 10.89 | No |
| | | 46 | 5230 | | 12.50 | 11.68 | No |
| | U-NII-2A | 54 | 5270 | | 12.50 | 11.89 | No |
| | | 62 | 5310 | | 12.00 | 11.63 | No |
| | U-NII-2C | 102 | 5510 | | 12.00 | 11.97 | No |
| | | 110 | 5550 | | 12.50 | 11.80 | No |
| | | 118 | 5590 | | 12.50 | 11.58 | No |
| | | 126 | 5630 | | 12.50 | 11.57 | No |
| | | 134 | 5670 | | 12.50 | 11.25 | No |
| | | 142 | 5710 | | 12.00 | 11.61 | No |
| | U-NII-3 | 151 | 5755 | | 12.00 | 11.28 | No |
| | | 159 | 5795 | | 12.00 | 11.13 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1 | 36 | 5180 | MCS0 | 12.00 | 10.87 | No |
| | | 40 | 5200 | | 12.50 | 11.42 | No |
| | | 44 | 5220 | | 12.50 | 11.54 | No |
| | | 48 | 5240 | | 12.50 | 11.68 | No |
| | U-NII-2A | 52 | 5260 | | 12.50 | 11.83 | No |
| | | 56 | 5280 | | 12.50 | 11.91 | No |
| | | 60 | 5300 | | 12.50 | 12.03 | No |
| | | 64 | 5320 | | 12.00 | 11.65 | No |
| | U-NII-2C | 100 | 5500 | | 12.00 | 11.54 | No |
| | | 104 | 5520 | | 12.50 | 11.97 | No |
| | | 108 | 5540 | | 12.50 | 11.95 | No |
| | | 112 | 5560 | | 12.50 | 11.83 | No |
| | | 116 | 5580 | | 12.50 | 11.75 | No |
| | | 120 | 5600 | | 12.50 | 11.67 | No |
| | | 124 | 5620 | | 12.50 | 11.53 | No |
| | | 128 | 5640 | | 12.50 | 11.46 | No |
| | | 132 | 5660 | | 12.50 | 11.83 | No |
| | | 136 | 5680 | | 12.50 | 11.73 | No |



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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 140 | 5700 | | 12.00 | 11.20 | No |
| | | 144 | 5720 | | 12.50 | 11.48 | No |
| | U-NII-3 | 149 | 5745 | | 12.00 | 11.28 | No |
| | | 153 | 5765 | | 12.50 | 11.69 | No |
| | | 157 | 5785 | | 12.50 | 11.66 | No |
| | | 161 | 5805 | | 12.50 | 11.53 | No |
| | | 165 | 5825 | | 12.00 | 11.09 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm | SAR Test |
| 802.11ac 40M | U-NII-1 | 38 | 5190 | MCS0 | 12.00 | 10.85 | No |
| | | 46 | 5230 | | 12.50 | 11.70 | No |
| | U-NII-2A | 54 | 5270 | | 12.50 | 11.91 | No |
| | | 62 | 5310 | | 12.00 | 11.68 | No |
| | U-NII-2C | 102 | 5510 | | 12.00 | 11.72 | No |
| | | 110 | 5550 | | 12.50 | 12.04 | No |
| | | 118 | 5590 | | 12.50 | 11.87 | No |
| | | 126 | 5630 | | 12.50 | 11.55 | No |
| | | 134 | 5670 | | 12.50 | 11.23 | No |
| | | 142 | 5710 | | 12.00 | 11.59 | No |
| | U-NII-3 | 151 | 5755 | | 12.00 | 11.29 | No |
| | | 159 | 5795 | | 12.00 | 11.17 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 80M | U-NII-1 | 42 | 5210 | MCS0 | 12.00 | 10.97 | No |
| | U-NII-2A | 58 | 5290 | | 12.00 | 11.53 | No |
| | U-NII-2C | 106 | 5530 | | 12.00 | 11.39 | No |
| | | 122 | 5610 | | 12.00 | 11.08 | No |
| | | 138 | 5690 | | 12.50 | 11.66 | No |
| | U-NII-3 | 155 | 5775 | | 12.00 | 11.19 | No |
| 5GHz | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 160M | / | 50 | 5250 | MCS0 | 11.50 | 10.28 | No |
| | / | 114 | 5570 | | 11.50 | 10.29 | No |


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| Conducted Power of WiFi 5G Receiver On (MCC of CE country) | | | | |
|---|---|---|---|---|
| WiFi 5G Receiver On | Average Power (dBm) for Data Rates (Mbps) | | | |
| | Channel | Frequency (MHz) | 6 | Tune up |
| 802.11a | 36 | 5180 | 13.17 | 14.60 |
| | 52 | 5260 | 13.63 | 14.60 |
| | 64 | 5320 | 14.02 | 14.60 |
| | 100 | 5500 | 13.96 | 14.60 |
| | 120 | 5600 | 13.56 | 14.60 |
| | 140 | 5700 | 13.48 | 14.60 |
| | 149 | 5745 | 11.28 | 12.00 |
| | 157 | 5785 | 11.09 | 12.00 |
| | 165 | 5825 | 11.05 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11n-HT20 | 36 | 5180 | 13.13 | 14.50 |
| | 52 | 5260 | 13.54 | 14.50 |
| | 64 | 5320 | 13.94 | 14.50 |
| | 100 | 5500 | 13.92 | 14.50 |
| | 120 | 5600 | 13.48 | 14.50 |
| | 140 | 5700 | 13.43 | 14.50 |
| | 149 | 5745 | 11.21 | 12.00 |
| | 157 | 5785 | 11.07 | 12.00 |
| | 165 | 5825 | 10.94 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11n-HT40 | 38 | 5190 | 13.12 | 14.50 |
| | 54 | 5270 | 13.58 | 14.50 |
| | 62 | 5310 | 13.87 | 14.50 |
| | 102 | 5510 | 13.86 | 14.50 |
| | 118 | 5590 | 13.53 | 14.50 |
| | 134 | 5670 | 13.51 | 14.50 |
| | 151 | 5755 | 11.19 | 12.00 |
| | 159 | 5795 | 11.07 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11ac 20M | 36 | 5180 | 13.12 | 14.50 |
| | 52 | 5260 | 13.54 | 14.50 |
| | 64 | 5320 | 13.95 | 14.50 |
| | 100 | 5500 | 13.91 | 14.50 |
| | 120 | 5600 | 13.49 | 14.50 |
| | 140 | 5700 | 13.42 | 14.50 |
| | 149 | 5745 | 11.17 | 12.00 |
| | 157 | 5785 | 11.06 | 12.00 |
| | 165 | 5825 | 10.97 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11ac 40M | 38 | 5190 | 13.09 | 14.50 |
| | 54 | 5270 | 13.61 | 14.50 |
| | 62 | 5310 | 13.81 | 14.50 |

| | | | | |
|---|---|---|---|---|
| | 102 | 5510 | 13.87 | 14.50 |
| | 118 | 5590 | 13.53 | 14.50 |
| | 134 | 5670 | 13.54 | 14.50 |
| | 151 | 5755 | 11.21 | 12.00 |
| | 159 | 5795 | 11.05 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11ac 80M | 42 | 5210 | 13.17 | 14.50 |
| | 58 | 5290 | 13.68 | 14.50 |
| | 106 | 5530 | 13.73 | 14.50 |
| | 122 | 5610 | 13.38 | 14.50 |
| | 138 | 5690 | 13.34 | 14.50 |
| | 155 | 5775 | 11.11 | 12.00 |
| 5GHz | Channel | Frequency (MHz) | MCS0 | Tune up |
| 802.11ac 160M | 50 | 5250 | 10.28 | 11.50 |
| | 114 | 5570 | 10.39 | 16.50 |

Table 18：Conducted Power of WiFi

Note:
a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

d)The MCC should be set to the FCC mobile country code. WiFi SAR Test should be evaluated at the power level of FCC mobile country code for each exposure conditions.

| BT High Power | | | Tune up (dBm) | Average Conducted Power(dBm) |
|---|---|---|---|---|
| Modulation | Channel | Frequency(MHz) | | |
| GFSK | 0 | 2402 | 17.00 | 14.49 |
| | 2 | 2404 | 17.00 | 15.21 |
| | 4 | 2406 | 17.00 | 15.67 |
| GFSK | 5 | 2407 | 17.50 | **15.83** |
| | 27 | 2429 | 17.50 | 15.12 |
| | 50 | 2452 | 17.50 | 14.81 |
| GFSK | 51 | 2453 | 17.00 | 14.72 |
| | 60 | 2462 | 17.00 | 14.20 |
| | 70 | 2472 | 17.00 | 14.60 |
| GFSK | 71 | 2473 | 16.00 | 14.52 |
| | 75 | 2477 | 16.00 | 14.15 |
| | 78 | 2480 | 16.00 | 14.23 |
| π/4DQPSK | 0 | 2402 | 15.20 | 12.61 |
| | 2 | 2404 | 15.20 | 13.33 |
| | 4 | 2406 | 15.20 | 13.84 |
| π/4DQPSK | 5 | 2407 | 15.70 | 14.00 |
| | 27 | 2429 | 15.70 | 13.18 |
| | 50 | 2452 | 15.70 | 12.98 |
| π/4DQPSK | 51 | 2453 | 15.20 | 12.90 |
| | 60 | 2462 | 15.20 | 12.38 |
| | 70 | 2472 | 15.20 | 12.79 |
| π/4DQPSK | 71 | 2473 | 14.20 | 12.71 |
| | 75 | 2477 | 14.20 | 12.30 |
| | 78 | 2480 | 14.20 | 11.47 |
| 8DPSK | 0 | 2402 | 15.20 | 12.61 |
| | 2 | 2404 | 15.20 | 13.34 |
| | 4 | 2406 | 15.20 | 13.83 |
| 8DPSK | 5 | 2407 | 15.70 | 13.98 |
| | 27 | 2429 | 15.70 | 13.21 |
| | 50 | 2452 | 15.70 | 12.98 |
| 8DPSK | 51 | 2453 | 15.20 | 12.91 |
| | 60 | 2462 | 15.20 | 12.79 |
| | 70 | 2472 | 15.20 | 12.67 |
| 8DPSK | 71 | 2473 | 14.20 | 12.70 |
| | 75 | 2477 | 14.20 | 12.31 |
| | 78 | 2480 | 14.20 | 11.49 |

| BT Normal Power | | | Tune up (dBm) | Average Conducted Power(dBm) |
|---|---|---|---|---|
| Modulation | Channel | Frequency(MHz) | | |
| GFSK | 0 | 2402 | 11.00 | 9.25 |
| | 5 | 2407 | 11.00 | 9.08 |
| | 10 | 2412 | 11.00 | 9.52 |
| GFSK | 11 | 2413 | 10.50 | 9.16 |
| | 20 | 2422 | 10.50 | 8.73 |
| | 30 | 2432 | 10.50 | 9.67 |
| GFSK | 31 | 2433 | 11.00 | 9.24 |
| | 40 | 2442 | 11.00 | **9.68** |
| | 50 | 2452 | 11.00 | 9.43 |
| GFSK | 51 | 2453 | 10.50 | 9.34 |
| | 64 | 2466 | 10.50 | 9.47 |
| | 78 | 2480 | 10.50 | 9.12 |
| π/4DQPSK | 0 | 2402 | 9.00 | 7.89 |
| | 5 | 2407 | 9.00 | 7.42 |
| | 10 | 2412 | 9.00 | 7.58 |
| π/4DQPSK | 11 | 2413 | 8.50 | 7.28 |
| | 20 | 2422 | 8.50 | 7.93 |
| | 30 | 2432 | 8.50 | 7.71 |
| π/4DQPSK | 31 | 2433 | 9.00 | 7.29 |
| | 40 | 2442 | 9.00 | 7.69 |
| | 50 | 2452 | 9.00 | 7.54 |
| π/4DQPSK | 51 | 2453 | 8.50 | 7.35 |
| | 64 | 2466 | 8.50 | 7.44 |
| | 78 | 2480 | 8.50 | 8.04 |
| 8DPSK | 0 | 2402 | 9.00 | 7.81 |
| | 5 | 2407 | 9.00 | 7.53 |
| | 10 | 2412 | 9.00 | 7.73 |
| 8DPSK | 11 | 2413 | 8.50 | 7.23 |
| | 20 | 2422 | 8.50 | 6.93 |
| | 30 | 2432 | 8.50 | 7.62 |
| 8DPSK | 31 | 2433 | 9.00 | 7.61 |
| | 40 | 2442 | 9.00 | 7.42 |
| | 50 | 2452 | 9.00 | 7.44 |
| 8DPSK | 51 | 2453 | 8.50 | 7.33 |
| | 64 | 2466 | 8.50 | 7.42 |
| | 78 | 2480 | 8.50 | 7.34 |

| BLE 4.0 | | | Tune up (dBm) | Average Conducted Power(dBm) |
|---|---|---|---|---|
| Modulation | Channel | Frequency(MHz) | | |
| GFSK | 0 | 2402 | 8.50 | 4.57 |
| | 3 | 2408 | 8.50 | 4.88 |
| | 5 | 2412 | 8.50 | 4.88 |
| | 6 | 2414 | 8.00 | 5.12 |
| | 19 | 2440 | 8.00 | 4.78 |
| | 31 | 2464 | 8.00 | 4.69 |
| | 32 | 2466 | 8.00 | 4.58 |
| | 35 | 2472 | 8.50 | 5.67 |
| | 39 | 2480 | 8.50 | 5.54 |

Table 19：Conducted Power of BT

Note:
1)The conducted power of BT is measured with RMS detector.
2)The bolded mode was selected for SAR testing.
3)As different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance.
4) BT BLE does not support High power mode.

## 8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

| Freq. Band | Frequency (GHz) | Position | Average Power | | Test Separation (mm) | Calculate Value | Exclusion Threshold | Exclusion (Y/N) |
|---|---|---|---|---|---|---|---|---|
| | | | dBm | mW | | | | |
| Wi-Fi | 2.45 | Head | 12.1 | 16.2 | 0 | 5.1 | 3 | N |
| | | Body-worn | 19.0 | 79.4 | 15 | 8.3 | 3 | N |
| | | Hotspot | 19.0 | 79.4 | 10 | 12.4 | 3 | N |
| Wi-Fi | 5.825 | Head | 12.6 | 18.2 | 0 | 8.1 | 3 | N |
| | | Body-worn | 17.5 | 56.2 | 15 | 8.4 | 3 | N |
| | | Hotspot | 17.5 | 56.2 | 10 | 12.6 | 3 | N |
| Bluetooth | 2.48 | Head | 11.0 | 12.59 | 0 | 4.0 | 3 | N |
| | | Body-worn | 17.5 | 56.2 | 15 | 5.9 | 3 | N |
| | | Hotspot | 17.5 | 56.2 | 10 | 8.9 | 3 | N |

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## 8.3 Measurement of SAR Data

### 8.3.1 SAR Result of GSM850

| Ant 1 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | GSM | 190/836.6 | 1:8.3 | 0.044 | 0.01 | 32.06 | 33.20 | 1.300 | 0.057 | 22.1 |
| Left tilted | GSM | 190/836.6 | 1:8.3 | 0.023 | 0.05 | 32.06 | 33.20 | 1.300 | 0.029 | 22.1 |
| Right cheek | GSM | 190/836.6 | 1:8.3 | **0.052** | -0.07 | 32.06 | 33.20 | 1.300 | **0.068** | 22.1 |
| Right tilted | GSM | 190/836.6 | 1:8.3 | 0.018 | -0.07 | 32.06 | 33.20 | 1.300 | 0.023 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | GSM | 190/836.6 | 1:8.3 | 0.049 | 0.04 | 32.06 | 33.20 | 1.300 | 0.064 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | GSM | 190/836.6 | 1:8.3 | 0.052 | 0.08 | 32.06 | 33.20 | 1.300 | 0.067 | 22.1 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | GSM | 190/836.6 | 1:8.3 | 0.156 | 0.04 | 32.06 | 33.20 | 1.300 | 0.203 | 22.1 |
| Back side | GSM | 190/836.6 | 1:8.3 | **0.191** | 0.10 | 32.06 | 33.20 | 1.300 | **0.248** | 22.1 |
| Front side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.125 | 0.08 | 25.78 | 27.20 | 1.387 | 0.173 | 22.1 |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.159 | 0.03 | 25.78 | 27.20 | 1.387 | 0.220 | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | GSM | 190/836.6 | 1:8.3 | 0.179 | 0.06 | 32.06 | 33.20 | 1.300 | 0.233 | 22.1 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | GSM | 190/836.6 | 1:8.3 | 0.175 | -0.04 | 32.06 | 33.20 | 1.300 | 0.228 | 22.1 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.222 | 0.14 | 25.78 | 27.20 | 1.387 | 0.308 | 22.1 |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | **0.297** | -0.05 | 25.78 | 27.20 | 1.387 | **0.412** | 22.1 |
| Left side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.238 | 0.12 | 25.78 | 27.20 | 1.387 | 0.330 | 22.1 |
| Right side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.053 | 0.03 | 25.78 | 27.20 | 1.387 | 0.073 | 22.1 |
| Bottom side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.167 | -0.05 | 25.78 | 27.20 | 1.387 | 0.232 | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.286 | 0.07 | 25.78 | 27.20 | 1.387 | 0.397 | 22.1 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.274 | 0.16 | 25.78 | 27.20 | 1.387 | 0.380 | 22.1 |

| Ant 2 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **SAR (W/kg)1-g** | **Power Drift(dB)** | **Conducted Power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Liquid Temp** |
| Head Test data | | | | | | | | | | |
| Left cheek | GSM | 190/836.6 | 1:8.3 | 0.485 | 0.05 | 29.55 | 31.00 | 1.396 | 0.677 | 22.1 |
| Left tilted | GSM | 190/836.6 | 1:8.3 | 0.455 | 0.04 | 29.55 | 31.00 | 1.396 | 0.635 | 22.1 |
| Right cheek | GSM | 190/836.6 | 1:8.3 | **0.518** | 0.04 | 29.55 | 31.00 | 1.396 | **0.723** | 22.1 |
| Right tilted | GSM | 190/836.6 | 1:8.3 | 0.501 | 0.07 | 29.55 | 31.00 | 1.396 | 0.700 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | GSM | 190/836.6 | 1:8.3 | 0.504 | 0.06 | 29.55 | 31.00 | 1.396 | 0.704 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | GSM | 190/836.6 | 1:8.3 | 0.502 | 0.02 | 29.55 | 31.00 | 1.396 | 0.701 | 22.1 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | GSM | 190/836.6 | 1:8.3 | 0.076 | 0.05 | 33.21 | 34.20 | 1.256 | 0.096 | 22.1 |
| Back side | GSM | 190/836.6 | 1:8.3 | 0.097 | 0.11 | 33.21 | 34.20 | 1.256 | 0.121 | 22.1 |
| Front side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.130 | 0.08 | 26.26 | 28.20 | 1.563 | 0.203 | 22.1 |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | **0.157** | -0.18 | 26.26 | 28.20 | 1.563 | **0.245** | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.156 | 0.01 | 26.26 | 28.20 | 1.563 | 0.244 | 22.1 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.156 | 0.01 | 26.26 | 28.20 | 1.563 | 0.244 | 22.1 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.307 | -0.17 | 26.26 | 28.20 | 1.563 | 0.480 | 22.1 |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.349 | 0.03 | 26.26 | 28.20 | 1.563 | 0.546 | 22.1 |
| Left side | GPRS 4TS | 190/836.6 | 1:2.075 | **0.352** | -0.03 | 26.26 | 28.20 | 1.563 | **0.550** | 22.1 |
| Top side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.299 | -0.03 | 26.26 | 28.20 | 1.563 | 0.467 | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm)(5G WIFI) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.329 | -0.06 | 26.26 | 28.20 | 1.563 | 0.514 | 22.1 |
| Body Test Data at the worst case with Battery 2#(10mm)(5G WIFI) | | | | | | | | | | |
| Back side | GPRS 4TS | 190/836.6 | 1:2.075 | 0.336 | 0.14 | 26.26 | 28.20 | 1.563 | 0.525 | 22.1 |

Table 20： SAR of GSM850 for Head and Body

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

### 8.3.2 SAR Result of GSM1900

| Ant 1 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **SAR (W/kg)1-g** | **Power Drift(dB)** | **Conducted Power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Liquid Temp** |
| Head Test data | | | | | | | | | | |
| Left cheek | GSM | 661/1880 | 1:8.3 | **0.086** | 0.09 | 30.18 | 31.20 | 1.265 | **0.109** | 22.3 |
| Left tilted | GSM | 661/1880 | 1:8.3 | 0.036 | 0.08 | 30.18 | 31.20 | 1.265 | 0.045 | 22.3 |
| Right cheek | GSM | 661/1880 | 1:8.3 | 0.042 | 0.04 | 30.18 | 31.20 | 1.265 | 0.053 | 22.3 |
| Right tilted | GSM | 661/1880 | 1:8.3 | 0.044 | 0.02 | 30.18 | 31.20 | 1.265 | 0.056 | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Left cheek | GSM | 661/1880 | 1:8.3 | 0.073 | 0.04 | 30.18 | 31.20 | 1.265 | 0.092 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Left cheek | GSM | 661/1880 | 1:8.3 | 0.085 | 0.01 | 30.18 | 31.20 | 1.265 | 0.107 | 22.3 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | GSM | 661/1880 | 1:8.3 | 0.088 | 0.05 | 30.18 | 31.20 | 1.265 | 0.111 | 22.3 |
| Back side | GSM | 661/1880 | 1:8.3 | **0.127** | 0.05 | 30.18 | 31.20 | 1.265 | **0.161** | 22.3 |
| Front side | GPRS 4TS | 661/1880 | 1:2.075 | 0.067 | 0.10 | 23.98 | 25.20 | 1.324 | 0.088 | 22.3 |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.106 | -0.06 | 23.98 | 25.20 | 1.324 | 0.140 | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | GSM | 661/1880 | 1:8.3 | 0.125 | 0.13 | 30.18 | 31.20 | 1.265 | 0.158 | 22.3 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | GSM | 661/1880 | 1:8.3 | 0.122 | 0.07 | 30.18 | 31.20 | 1.265 | 0.154 | 22.3 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | GPRS 4TS | 661/1880 | 1:2.075 | 0.127 | 0.07 | 23.98 | 25.20 | 1.324 | 0.168 | 22.3 |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.204 | -0.05 | 23.98 | 25.20 | 1.324 | 0.270 | 22.3 |
| Left side | GPRS 4TS | 661/1880 | 1:2.075 | 0.064 | 0.03 | 23.98 | 25.20 | 1.324 | 0.084 | 22.3 |
| Right side | GPRS 4TS | 661/1880 | 1:2.075 | 0.046 | -0.02 | 23.98 | 25.20 | 1.324 | 0.061 | 22.3 |
| Bottom side | GPRS 4TS | 661/1880 | 1:2.075 | **0.357** | -0.05 | 23.98 | 25.20 | 1.324 | **0.473** | 22.3 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Bottom side | GPRS 4TS | 661/1880 | 1:2.075 | 0.341 | -0.07 | 23.98 | 25.20 | 1.324 | 0.452 | 22.3 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Bottom side | GPRS 4TS | 661/1880 | 1:2.075 | 0.344 | -0.10 | 23.98 | 25.20 | 1.324 | 0.456 | 22.3 |

| Ant 2 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | GSM | 661/1880 | 1:8.3 | 0.143 | 0.09 | 28.39 | 29.20 | 1.205 | 0.172 | 22.3 |
| Left tilted | GSM | 661/1880 | 1:8.3 | 0.154 | 0.11 | 28.39 | 29.20 | 1.205 | 0.186 | 22.3 |
| Right cheek | GSM | 661/1880 | 1:8.3 | 0.481 | 0.01 | 28.39 | 29.20 | 1.205 | 0.580 | 22.3 |
| Right tilted | GSM | 661/1880 | 1:8.3 | **0.503** | -0.07 | 28.39 | 29.20 | 1.205 | **0.606** | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right tilted | GSM | 661/1880 | 1:8.3 | 0.495 | 0.00 | 28.39 | 29.20 | 1.205 | 0.596 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right tilted | GSM | 661/1880 | 1:8.3 | 0.495 | -0.06 | 28.39 | 29.20 | 1.205 | 0.596 | 22.3 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | GSM | 661/1880 | 1:8.3 | 0.034 | 0.03 | 28.39 | 29.20 | 1.205 | 0.041 | 22.3 |
| Back side | GSM | 661/1880 | 1:8.3 | **0.059** | 0.12 | 28.39 | 29.20 | 1.205 | 0.071 | 22.3 |
| Front side | GPRS 4TS | 661/1880 | 1:2.075 | 0.033 | 0.03 | 22.14 | 23.20 | 1.276 | 0.042 | 22.3 |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.056 | 0.09 | 22.14 | 23.20 | 1.276 | 0.071 | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.058 | -0.06 | 22.14 | 23.20 | 1.276 | **0.075** | 22.3 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.056 | 0.19 | 22.14 | 23.20 | 1.276 | 0.071 | 22.3 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | GPRS 4TS | 661/1880 | 1:2.075 | 0.068 | 0.08 | 22.14 | 23.20 | 1.276 | 0.086 | 22.3 |
| Back side | GPRS 4TS | 661/1880 | 1:2.075 | 0.108 | 0.10 | 22.14 | 23.20 | 1.276 | 0.138 | 22.3 |
| Left side | GPRS 4TS | 661/1880 | 1:2.075 | 0.104 | 0.01 | 22.14 | 23.20 | 1.276 | 0.133 | 22.3 |
| Top side | GPRS 4TS | 661/1880 | 1:2.075 | **0.113** | -0.06 | 22.14 | 23.20 | 1.276 | **0.144** | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Top side | GPRS 4TS | 661/1880 | 1:2.075 | 0.112 | -0.06 | 22.14 | 23.20 | 1.276 | 0.143 | 22.3 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Top side | GPRS 4TS | 661/1880 | 1:2.075 | 0.111 | -0.06 | 22.14 | 23.20 | 1.276 | 0.142 | 22.3 |

Table 21： SAR of GSM1900 for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.


No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 8.3.3 SAR Result of WCDMA Band II

| Ant 1 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 9400/1880 | 1:1 | 0.083 | 0.02 | 23.31 | 24.50 | 1.315 | 0.109 | 22.3 |
| Left tilted | RMC | 9400/1880 | 1:1 | 0.036 | 0.09 | 23.31 | 24.50 | 1.315 | 0.048 | 22.3 |
| Right cheek | RMC | 9400/1880 | 1:1 | **0.100** | 0.01 | 23.31 | 24.50 | 1.315 | **0.131** | 22.3 |
| Right tilted | RMC | 9400/1880 | 1:1 | 0.078 | 0.14 | 23.31 | 24.50 | 1.315 | 0.103 | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | RMC | 9400/1880 | 1:1 | 0.099 | 0.04 | 23.31 | 24.50 | 1.315 | 0.130 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | RMC | 9400/1880 | 1:1 | 0.098 | 0.05 | 23.31 | 24.50 | 1.315 | 0.129 | 22.3 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 9400/1880 | 1:1 | 0.105 | -0.07 | 20.87 | 22.00 | 1.297 | 0.136 | 22.3 |
| Back side | RMC | 9400/1880 | 1:1 | **0.155** | 0.02 | 20.87 | 22.00 | 1.297 | **0.201** | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 9400/1880 | 1:1 | 0.154 | 0.08 | 20.87 | 22.00 | 1.297 | 0.200 | 22.3 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 9400/1880 | 1:1 | 0.150 | -0.12 | 20.87 | 22.00 | 1.297 | 0.195 | 22.3 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 9400/1880 | 1:1 | 0.206 | 0.07 | 20.87 | 22.00 | 1.297 | 0.267 | 22.3 |
| Back side | RMC | 9400/1880 | 1:1 | 0.262 | 0.02 | 20.87 | 22.00 | 1.297 | 0.340 | 22.3 |
| Left side | RMC | 9400/1880 | 1:1 | 0.110 | 0.02 | 20.87 | 22.00 | 1.297 | 0.143 | 22.3 |
| Right side | RMC | 9400/1880 | 1:1 | 0.091 | 0.03 | 20.87 | 22.00 | 1.297 | 0.118 | 22.3 |
| Bottom side | RMC | 9400/1880 | 1:1 | **0.414** | -0.03 | 20.87 | 22.00 | 1.297 | **0.537** | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Bottom side | RMC | 9400/1880 | 1:1 | 0.412 | -0.02 | 20.87 | 22.00 | 1.297 | 0.534 | 22.3 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Bottom side | RMC | 9400/1880 | 1:1 | 0.413 | -0.18 | 20.87 | 22.00 | 1.297 | 0.536 | 22.3 |

| Ant 2 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 9400/1880 | 1:1 | 0.112 | -0.04 | 18.92 | 20.00 | 1.282 | 0.144 | 22.3 |
| Left tilted | RMC | 9400/1880 | 1:1 | 0.158 | 0.02 | 18.92 | 20.00 | 1.282 | 0.203 | 22.3 |
| Right cheek | RMC | 9400/1880 | 1:1 | **0.623** | 0.01 | 18.92 | 20.00 | 1.282 | **0.799** | 22.3 |
| Right tilted | RMC | 9400/1880 | 1:1 | 0.611 | 0.13 | 18.92 | 20.00 | 1.282 | 0.784 | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | RMC | 9400/1880 | 1:1 | 0.622 | 0.01 | 18.92 | 20.00 | 1.282 | 0.798 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | RMC | 9400/1880 | 1:1 | 0.620 | 0.01 | 18.92 | 20.00 | 1.282 | 0.795 | 22.3 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 9400/1880 | 1:1 | 0.148 | 0.17 | 23.44 | 24.50 | 1.276 | 0.189 | 22.3 |
| Back side | RMC | 9400/1880 | 1:1 | **0.181** | 0.08 | 23.44 | 24.50 | 1.276 | **0.231** | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 9400/1880 | 1:1 | 0.180 | 0.01 | 23.44 | 24.50 | 1.276 | 0.230 | 22.1 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 9400/1880 | 1:1 | 0.180 | 0.04 | 23.44 | 24.50 | 1.276 | 0.230 | 22.1 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 9400/1880 | 1:1 | 0.277 | 0.16 | 23.44 | 24.50 | 1.276 | 0.354 | 22.3 |
| Back side | RMC | 9400/1880 | 1:1 | 0.380 | 0.00 | 23.44 | 24.50 | 1.276 | 0.485 | 22.3 |
| Left side | RMC | 9400/1880 | 1:1 | **0.407** | 0.02 | 23.44 | 24.50 | 1.276 | **0.520** | 22.3 |
| Top side | RMC | 9400/1880 | 1:1 | 0.334 | 0.15 | 23.44 | 24.50 | 1.276 | 0.426 | 22.3 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Left side | RMC | 9400/1880 | 1:1 | 0.350 | 0.19 | 23.44 | 24.50 | 1.276 | 0.447 | 22.3 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Left side | RMC | 9400/1880 | 1:1 | 0.349 | -0.07 | 23.44 | 24.50 | 1.276 | 0.445 | 22.3 |

Table 22： SAR of WCDMA Band II for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center EMC Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 8.3.4 SAR Result of WCDMA Band IV

| Ant 1 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 1412/1732.4 | 1:1 | **0.170** | 0.06 | 22.89 | 24.00 | 1.291 | **0.220** | 22.2 |
| Left tilted | RMC | 1412/1732.4 | 1:1 | 0.065 | 0.09 | 22.89 | 24.00 | 1.291 | 0.083 | 22.2 |
| Right cheek | RMC | 1412/1732.4 | 1:1 | 0.123 | -0.05 | 22.89 | 24.00 | 1.291 | 0.159 | 22.2 |
| Right tilted | RMC | 1412/1732.4 | 1:1 | 0.071 | -0.03 | 22.89 | 24.00 | 1.291 | 0.091 | 22.2 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Left cheek | RMC | 1412/1732.4 | 1:1 | 0.155 | -0.03 | 22.89 | 24.00 | 1.291 | 0.200 | 22.2 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Left cheek | RMC | 1412/1732.4 | 1:1 | 0.144 | 0.05 | 22.89 | 24.00 | 1.291 | 0.186 | 22.2 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 1412/1732.4 | 1:1 | 0.139 | 0.03 | 22.40 | 23.50 | 1.288 | 0.179 | 22.2 |
| Back side | RMC | 1412/1732.4 | 1:1 | **0.165** | -0.14 | 22.40 | 23.50 | 1.288 | **0.213** | 22.2 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.163 | -0.11 | 22.40 | 23.50 | 1.288 | 0.210 | 22.2 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.161 | 0.00 | 22.40 | 23.50 | 1.288 | 0.207 | 22.2 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 1412/1732.4 | 1:1 | 0.267 | 0.01 | 22.40 | 23.50 | 1.288 | 0.344 | 22.2 |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.320 | -0.02 | 22.40 | 23.50 | 1.288 | 0.412 | 22.2 |
| Left side | RMC | 1412/1732.4 | 1:1 | 0.206 | 0.07 | 22.40 | 23.50 | 1.288 | 0.265 | 22.2 |
| Right side | RMC | 1412/1732.4 | 1:1 | 0.105 | 0.13 | 22.40 | 23.50 | 1.288 | 0.135 | 22.2 |
| Bottom side | RMC | 1412/1732.4 | 1:1 | **0.572** | 0.04 | 22.40 | 23.50 | 1.288 | **0.737** | 22.2 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Bottom side | RMC | 1412/1732.4 | 1:1 | 0.553 | 0.04 | 22.40 | 23.50 | 1.288 | 0.712 | 22.2 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Bottom side | RMC | 1412/1732.4 | 1:1 | 0.554 | -0.02 | 22.40 | 23.50 | 1.288 | 0.714 | 22.2 |


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

| Ant 2 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 1412/1732.4 | 1:1 | 0.249 | 0.12 | 18.37 | 19.50 | 1.297 | 0.323 | 22.2 |
| Left tilted | RMC | 1412/1732.4 | 1:1 | 0.178 | 0.00 | 18.37 | 19.50 | 1.297 | 0.231 | 22.2 |
| Right cheek | RMC | 1412/1732.4 | 1:1 | **0.609** | -0.10 | 18.37 | 19.50 | 1.297 | **0.790** | 22.2 |
| Right tilted | RMC | 1412/1732.4 | 1:1 | 0.522 | 0.04 | 18.37 | 19.50 | 1.297 | 0.677 | 22.2 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | RMC | 1412/1732.4 | 1:1 | 0.590 | -0.04 | 18.37 | 19.50 | 1.297 | 0.765 | 22.2 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | RMC | 1412/1732.4 | 1:1 | 0.562 | 0.01 | 18.37 | 19.50 | 1.297 | 0.729 | 22.2 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 1412/1732.4 | 1:1 | 0.198 | -0.18 | 22.91 | 24.00 | 1.285 | 0.254 | 22.2 |
| Back side | RMC | 1412/1732.4 | 1:1 | **0.208** | -0.12 | 22.91 | 24.00 | 1.285 | **0.267** | 22.2 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.203 | -0.18 | 22.91 | 24.00 | 1.285 | 0.261 | 22.2 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.194 | 0.02 | 22.91 | 24.00 | 1.285 | 0.249 | 22.2 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 1412/1732.4 | 1:1 | 0.285 | 0.01 | 22.91 | 24.00 | 1.285 | 0.366 | 22.2 |
| Back side | RMC | 1412/1732.4 | 1:1 | 0.355 | -0.09 | 22.91 | 24.00 | 1.285 | 0.456 | 22.2 |
| Left side | RMC | 1412/1732.4 | 1:1 | **0.483** | 0.02 | 22.91 | 24.00 | 1.285 | **0.621** | 22.2 |
| Top side | RMC | 1412/1732.4 | 1:1 | 0.301 | -0.09 | 22.91 | 24.00 | 1.285 | 0.387 | 22.2 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Left side | RMC | 1412/1732.4 | 1:1 | 0.476 | 0.08 | 22.91 | 24.00 | 1.285 | 0.612 | 22.2 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Left side | RMC | 1412/1732.4 | 1:1 | 0.460 | 0.04 | 22.91 | 24.00 | 1.285 | 0.591 | 22.2 |

Table 23： SAR of WCDMA Band IV for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.5 SAR Result of WCDMA Band V

| Ant 1 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 4182/836.4 | 1:1 | 0.061 | 0.04 | 23.99 | 25.00 | 1.262 | 0.077 | 22.1 |
| Left tilted | RMC | 4182/836.4 | 1:1 | 0.037 | 0.02 | 23.99 | 25.00 | 1.262 | 0.046 | 22.1 |
| Right cheek | RMC | 4182/836.4 | 1:1 | **0.078** | 0.07 | 23.99 | 25.00 | 1.262 | **0.098** | 22.1 |
| Right tilted | RMC | 4182/836.4 | 1:1 | 0.028 | 0.04 | 23.99 | 25.00 | 1.262 | 0.035 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | RMC | 4182/836.4 | 1:1 | 0.073 | 0.07 | 23.99 | 25.00 | 1.262 | 0.092 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | RMC | 4182/836.4 | 1:1 | 0.074 | 0.05 | 23.99 | 25.00 | 1.262 | 0.093 | 22.1 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 4182/836.4 | 1:1 | 0.233 | 0.00 | 23.99 | 25.00 | 1.262 | 0.294 | 22.1 |
| Back side | RMC | 4182/836.4 | 1:1 | **0.281** | 0.00 | 23.99 | 25.00 | 1.262 | **0.355** | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.274 | 0.06 | 23.99 | 25.00 | 1.262 | 0.346 | 22.1 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.272 | 0.17 | 23.99 | 25.00 | 1.262 | 0.343 | 22.1 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 4182/836.4 | 1:1 | 0.402 | 0.03 | 23.99 | 25.00 | 1.262 | 0.507 | 22.1 |
| Back side | RMC | 4182/836.4 | 1:1 | **0.482** | 0.02 | 23.99 | 25.00 | 1.262 | **0.608** | 22.1 |
| Left side | RMC | 4182/836.4 | 1:1 | 0.332 | 0.17 | 23.99 | 25.00 | 1.262 | 0.419 | 22.1 |
| Right side | RMC | 4182/836.4 | 1:1 | 0.087 | 0.05 | 23.99 | 25.00 | 1.262 | 0.110 | 22.1 |
| Bottom side | RMC | 4182/836.4 | 1:1 | 0.279 | 0.14 | 23.99 | 25.00 | 1.262 | 0.352 | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.461 | 0.07 | 23.99 | 25.00 | 1.262 | 0.582 | 22.1 |
| Body Test Data at the worst case with Battery 2#(10mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.452 | 0.06 | 23.99 | 25.00 | 1.262 | 0.570 | 22.1 |

| Ant 2 Test Record | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test position | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp |
| Head Test data | | | | | | | | | | |
| Left cheek | RMC | 4182/836.4 | 1:1 | 0.548 | 0.07 | 21.02 | 22.00 | 1.253 | 0.687 | 22.1 |
| Left tilted | RMC | 4182/836.4 | 1:1 | 0.489 | 0.04 | 21.02 | 22.00 | 1.253 | 0.613 | 22.1 |
| Right cheek | RMC | 4182/836.4 | 1:1 | 0.586 | -0.03 | 21.02 | 22.00 | 1.253 | 0.734 | 22.1 |
| Right tilted | RMC | 4182/836.4 | 1:1 | 0.548 | -0.14 | 21.02 | 22.00 | 1.253 | 0.687 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | |
| Right cheek | RMC | 4182/836.4 | 1:1 | 0.601 | 0.00 | 21.02 | 22.00 | 1.253 | 0.753 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | |
| Right cheek | RMC | 4182/836.4 | 1:1 | **0.606** | 0.12 | 21.02 | 22.00 | 1.253 | **0.759** | 22.1 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | |
| Front side | RMC | 4182/836.4 | 1:1 | 0.173 | 0.01 | 24.05 | 25.00 | 1.245 | 0.215 | 22.1 |
| Back side | RMC | 4182/836.4 | 1:1 | **0.235** | 0.01 | 24.05 | 25.00 | 1.245 | **0.292** | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.228 | 0.09 | 24.05 | 25.00 | 1.245 | 0.284 | 22.1 |
| Body Test Data at the worst case with Battery 2#(Separate 15mm) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.223 | 0.13 | 24.05 | 25.00 | 1.245 | 0.278 | 22.1 |
| Hotspot Test data(Separate 10mm) | | | | | | | | | | |
| Front side | RMC | 4182/836.4 | 1:1 | 0.369 | -0.01 | 24.05 | 25.00 | 1.245 | 0.459 | 22.1 |
| Back side | RMC | 4182/836.4 | 1:1 | **0.493** | -0.07 | 24.05 | 25.00 | 1.245 | **0.614** | 22.1 |
| Left side | RMC | 4182/836.4 | 1:1 | 0.430 | 0.06 | 24.05 | 25.00 | 1.245 | 0.535 | 22.1 |
| Top side | RMC | 4182/836.4 | 1:1 | 0.403 | -0.03 | 24.05 | 25.00 | 1.245 | 0.502 | 22.1 |
| BodyTest Data at the worst case with SIM 2 (Separate 10mm)(5G WIFI) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.477 | 0.00 | 24.05 | 25.00 | 1.245 | 0.594 | 22.1 |
| Body Test Data at the worst case with Battery 2#(10mm)(5G WIFI) | | | | | | | | | | |
| Back side | RMC | 4182/836.4 | 1:1 | 0.480 | 0.01 | 24.05 | 25.00 | 1.245 | 0.597 | 22.1 |

Table 24： SAR of WCDMA Band V for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.6 SAR Result of LTE Band 2

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | **0.154** | 0.03 | 23.18 | 24.00 | 1.208 | **0.186** | 22.3 |
| Left tilted | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.070 | 0.00 | 23.18 | 24.00 | 1.208 | 0.085 | 22.3 |
| Right cheek | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.113 | 0.09 | 23.18 | 24.00 | 1.208 | 0.136 | 22.3 |
| Right tilted | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.064 | 0.04 | 23.18 | 24.00 | 1.208 | 0.078 | 22.3 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.140 | -0.08 | 22.15 | 23.00 | 1.216 | 0.170 | 22.3 |
| Left tilted | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.067 | -0.07 | 22.15 | 23.00 | 1.216 | 0.082 | 22.3 |
| Right cheek | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.103 | 0.05 | 22.15 | 23.00 | 1.216 | 0.125 | 22.3 |
| Right tilted | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.056 | -0.03 | 22.15 | 23.00 | 1.216 | 0.068 | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.136 | 0.05 | 23.18 | 24.00 | 1.208 | 0.164 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.143 | 0.08 | 23.18 | 24.00 | 1.208 | 0.173 | 22.3 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.186 | -0.05 | 23.18 | 24.00 | 1.208 | 0.225 | 22.3 |
| Back side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.227 | -0.08 | 23.18 | 24.00 | 1.208 | 0.274 | 22.3 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.162 | -0.02 | 22.15 | 23.00 | 1.216 | 0.197 | 22.3 |
| Back side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.189 | -0.09 | 22.15 | 23.00 | 1.216 | 0.230 | 22.3 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.225 | 0.02 | 23.18 | 24.00 | 1.208 | 0.272 | 22.3 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | **0.236** | -0.08 | 23.18 | 24.00 | 1.208 | **0.285** | 22.3 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.360 | 0.09 | 23.18 | 24.00 | 1.208 | 0.435 | 22.3 |
| Back side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.462 | -0.01 | 23.18 | 24.00 | 1.208 | 0.558 | 22.3 |
| Left side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.208 | -0.05 | 23.18 | 24.00 | 1.208 | 0.251 | 22.3 |
| Right side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.167 | -0.09 | 23.18 | 24.00 | 1.208 | 0.202 | 22.3 |
| Bottom side | 20 | QPSK 1RB_0 | 18700/1860 | 1:1 | 0.744 | -0.09 | 23.18 | 24.00 | 1.208 | 0.899 | 22.3 |
| Bottom side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.738 | -0.01 | 23.16 | 24.00 | 1.213 | 0.895 | 22.3 |
| Bottom side | 20 | QPSK 1RB_0 | 19100/1900 | 1:1 | **0.794** | -0.05 | 23.17 | 24.00 | 1.211 | **0.961** | 22.3 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.302 | -0.01 | 22.15 | 23.00 | 1.216 | 0.367 | 22.3 |
| Back side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.381 | -0.05 | 22.15 | 23.00 | 1.216 | 0.463 | 22.3 |
| Left side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.188 | -0.07 | 22.15 | 23.00 | 1.216 | 0.229 | 22.3 |
| Right side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.135 | -0.02 | 22.15 | 23.00 | 1.216 | 0.164 | 22.3 |
| Bottom side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.615 | -0.01 | 22.15 | 23.00 | 1.216 | 0.748 | 22.3 |
| Hotspot Test data (Separate 10mm 100%RB) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 100RB_0 | 19100/1900 | 1:1 | 0.615 | -0.06 | 22.23 | 24.00 | 1.503 | 0.924 | 22.3 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_0 | 19100/1900 | 1:1 | 0.750 | -0.03 | 23.17 | 24.00 | 1.211 | 0.908 | 22.3 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_0 | 19100/1900 | 1:1 | 0.749 | -0.01 | 23.17 | 24.00 | 1.211 | 0.907 | 22.3 |



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center EMC Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 18700/1860 | 1:1 | 0.155 | 0.03 | 19.63 | 20.50 | 1.222 | 0.189 | 22.3 |
| Left tilted | 20 | QPSK 1RB_99 | 18700/1860 | 1:1 | 0.190 | 0.01 | 19.63 | 20.50 | 1.222 | 0.232 | 22.3 |
| Right cheek | 20 | QPSK 1RB_99 | 18700/1860 | 1:1 | 0.493 | 0.07 | 19.63 | 20.50 | 1.222 | 0.602 | 22.3 |
| Right tilted | 20 | QPSK 1RB_99 | 18700/1860 | 1:1 | 0.506 | 0.10 | 19.63 | 20.50 | 1.222 | 0.618 | 22.3 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | 0.163 | 0.09 | 19.43 | 20.50 | 1.279 | 0.209 | 22.3 |
| Left tilted | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | 0.175 | 0.06 | 19.43 | 20.50 | 1.279 | 0.224 | 22.3 |
| Right cheek | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | **0.532** | 0.07 | 19.43 | 20.50 | 1.279 | **0.681** | 22.3 |
| Right tilted | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | 0.528 | 0.04 | 19.43 | 20.50 | 1.279 | 0.676 | 22.3 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | 0.528 | 0.06 | 19.43 | 20.50 | 1.279 | 0.676 | 22.3 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 20 | QPSK 50RB_0 | 18900/1880 | 1:1 | 0.521 | 0.06 | 19.43 | 20.50 | 1.279 | 0.667 | 22.3 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.114 | 0.07 | 23.52 | 24.00 | 1.117 | 0.127 | 22.3 |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | **0.200** | 0.05 | 23.52 | 24.00 | 1.117 | **0.223** | 22.3 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.091 | 0.05 | 22.64 | 23.00 | 1.219 | 0.099 | 22.3 |
| Back side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.162 | 0.04 | 22.64 | 23.00 | 1.219 | 0.176 | 22.3 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.199 | 0.05 | 23.52 | 24.00 | 1.117 | 0.222 | 22.3 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.196 | 0.05 | 23.52 | 24.00 | 1.117 | 0.219 | 22.3 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.252 | 0.08 | 23.52 | 24.00 | 1.117 | 0.281 | 22.3 |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | **0.419** | -0.08 | 23.52 | 24.00 | 1.117 | **0.468** | 22.3 |
| Left side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.362 | -0.10 | 23.52 | 24.00 | 1.117 | 0.404 | 22.3 |
| Top side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.334 | 0.08 | 23.52 | 24.00 | 1.117 | 0.373 | 22.3 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.200 | 0.02 | 22.64 | 23.00 | 1.086 | 0.217 | 22.3 |
| Back side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.357 | 0.01 | 22.64 | 23.00 | 1.086 | 0.388 | 22.3 |
| Left side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.184 | 0.00 | 22.64 | 23.00 | 1.086 | 0.200 | 22.3 |
| Top side | 20 | QPSK 50RB_0 | 19100/1900 | 1:1 | 0.263 | -0.06 | 22.64 | 23.00 | 1.086 | 0.286 | 22.3 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.399 | -0.02 | 23.52 | 24.00 | 1.117 | 0.446 | 22.3 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 18900/1880 | 1:1 | 0.391 | 0.01 | 23.52 | 24.00 | 1.117 | 0.437 | 22.3 |

Table 25：SAR of LTE Band 2 for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.7 SAR Result of LTE Band 4

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | **0.167** | 0.09 | 22.99 | 24.00 | 1.262 | **0.211** | 22.2 |
| Left tilted | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.067 | 0.03 | 22.99 | 24.00 | 1.262 | 0.084 | 22.2 |
| Right cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.123 | 0.18 | 22.99 | 24.00 | 1.262 | 0.155 | 22.2 |
| Right tilted | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.074 | 0.06 | 22.99 | 24.00 | 1.262 | 0.094 | 22.2 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 20175/1732.5 | 1:1 | 0.133 | 0.04 | 22.06 | 23.00 | 1.242 | 0.165 | 22.2 |
| Left tilted | 20 | QPSK 50RB_0 | 20175/1732.5 | 1:1 | 0.054 | 0.03 | 22.06 | 23.00 | 1.242 | 0.066 | 22.2 |
| Right cheek | 20 | QPSK 50RB_0 | 20175/1732.5 | 1:1 | 0.119 | 0.06 | 22.06 | 23.00 | 1.242 | 0.148 | 22.2 |
| Right tilted | 20 | QPSK 50RB_0 | 20175/1732.5 | 1:1 | 0.058 | 0.09 | 22.06 | 23.00 | 1.242 | 0.072 | 22.2 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.163 | 0.09 | 22.99 | 24.00 | 1.262 | 0.206 | 22.2 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.155 | 0.01 | 22.99 | 24.00 | 1.262 | 0.196 | 22.2 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.151 | -0.06 | 22.58 | 23.50 | 1.236 | 0.187 | 22.2 |
| Back side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | **0.172** | -0.09 | 22.58 | 23.50 | 1.236 | **0.213** | 22.2 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.134 | 0.04 | 22.07 | 23.00 | 1.239 | 0.166 | 22.2 |
| Back side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.158 | 0.00 | 22.07 | 23.00 | 1.239 | 0.196 | 22.2 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.170 | 0.04 | 22.58 | 23.50 | 1.236 | 0.210 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.171 | 0.03 | 22.58 | 23.50 | 1.236 | 0.211 | 22.2 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.299 | 0.04 | 22.58 | 23.50 | 1.236 | 0.370 | 22.2 |
| Back side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.317 | 0.12 | 22.58 | 23.50 | 1.236 | 0.392 | 22.2 |
| Left side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.191 | 0.04 | 22.58 | 23.50 | 1.236 | 0.236 | 22.2 |
| Right side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.105 | -0.06 | 22.58 | 23.50 | 1.236 | 0.130 | 22.2 |
| Bottom side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | **0.568** | -0.04 | 22.58 | 23.50 | 1.236 | **0.702** | 22.2 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.272 | -0.03 | 22.07 | 23.00 | 1.239 | 0.337 | 22.2 |
| Back side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.287 | -0.02 | 22.07 | 23.00 | 1.239 | 0.356 | 22.2 |
| Left side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.170 | 0.09 | 22.07 | 23.00 | 1.239 | 0.211 | 22.2 |
| Right side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.094 | -0.08 | 22.07 | 23.00 | 1.239 | 0.116 | 22.2 |
| Bottom side | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.496 | 0.00 | 22.07 | 23.00 | 1.239 | 0.614 | 22.2 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.567 | 0.31 | 22.58 | 23.50 | 1.236 | 0.701 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.547 | 0.02 | 22.58 | 23.50 | 1.236 | 0.676 | 22.2 |

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.209 | -0.16 | 18.23 | 19.00 | 1.194 | 0.250 | 22.2 |
| Left tilted | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.091 | -0.09 | 18.23 | 19.00 | 1.194 | 0.109 | 22.2 |
| Right cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | **0.621** | -0.01 | 18.23 | 19.00 | 1.194 | **0.741** | 22.2 |
| Right tilted | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.470 | 0.01 | 18.23 | 19.00 | 1.194 | 0.561 | 22.2 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.207 | 0.00 | 18.28 | 19.00 | 1.180 | 0.244 | 22.2 |
| Left tilted | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.167 | 0.07 | 18.28 | 19.00 | 1.180 | 0.197 | 22.2 |
| Right cheek | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.546 | -0.07 | 18.28 | 19.00 | 1.180 | 0.644 | 22.2 |
| Right tilted | 20 | QPSK 50RB_50 | 20050/1720 | 1:1 | 0.460 | 0.08 | 18.28 | 19.00 | 1.180 | 0.543 | 22.2 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.615 | 0.17 | 18.23 | 19.00 | 1.194 | 0.734 | 22.2 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_0 | 20175/1732.5 | 1:1 | 0.550 | -0.10 | 18.23 | 19.00 | 1.194 | 0.657 | 22.2 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.168 | 0.09 | 23.48 | 24.00 | 1.127 | 0.189 | 22.2 |
| Back side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | **0.200** | 0.06 | 23.48 | 24.00 | 1.127 | **0.225** | 22.2 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.137 | 0.05 | 22.46 | 23.00 | 1.132 | 0.155 | 22.2 |
| Back side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.152 | 0.09 | 22.46 | 23.00 | 1.132 | 0.172 | 22.2 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.197 | 0.07 | 23.48 | 24.00 | 1.127 | 0.222 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.195 | 0.02 | 23.48 | 24.00 | 1.127 | 0.220 | 22.2 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.292 | -0.16 | 23.48 | 24.00 | 1.127 | 0.329 | 22.2 |
| Back side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.352 | 0.02 | 23.48 | 24.00 | 1.127 | 0.397 | 22.2 |
| Left side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | **0.525** | 0.02 | 23.48 | 24.00 | 1.127 | **0.592** | 22.2 |
| Top side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.309 | 0.03 | 23.48 | 24.00 | 1.127 | 0.348 | 22.2 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.240 | 0.04 | 22.46 | 23.00 | 1.132 | 0.272 | 22.2 |
| Back side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.329 | -0.02 | 22.46 | 23.00 | 1.132 | 0.373 | 22.2 |
| Left side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.385 | 0.02 | 22.46 | 23.00 | 1.132 | 0.436 | 22.2 |
| Top side | 20 | QPSK 50RB_0 | 20050/1720 | 1:1 | 0.230 | -0.18 | 22.46 | 23.00 | 1.132 | 0.260 | 22.2 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Left side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.470 | 0.03 | 23.48 | 24.00 | 1.127 | 0.530 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Left side | 20 | QPSK 1RB_0 | 20050/1720 | 1:1 | 0.465 | 0.05 | 23.48 | 24.00 | 1.127 | 0.524 | 22.2 |

Table 26：SAR of LTE Band 4 for Head and Body.

Note:

1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

4) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.8 SAR Result of LTE Band 5

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.048 | 0.00 | 24.02 | 25.00 | 1.253 | 0.060 | 22.1 |
| Left tilted | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.034 | -0.17 | 24.02 | 25.00 | 1.253 | 0.042 | 22.1 |
| Right cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | **0.073** | 0.00 | 24.02 | 25.00 | 1.253 | **0.091** | 22.1 |
| Right tilted | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.028 | -0.09 | 24.02 | 25.00 | 1.253 | 0.035 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.035 | -0.03 | 23.06 | 24.00 | 1.242 | 0.044 | 22.1 |
| Left tilted | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.022 | -0.14 | 23.06 | 24.00 | 1.242 | 0.027 | 22.1 |
| Right cheek | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.053 | 0.03 | 23.06 | 24.00 | 1.242 | 0.066 | 22.1 |
| Right tilted | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.020 | 0.01 | 23.06 | 24.00 | 1.242 | 0.025 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.070 | 0.09 | 24.02 | 25.00 | 1.253 | 0.088 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.067 | -0.04 | 24.02 | 25.00 | 1.253 | 0.084 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.209 | 0.14 | 24.02 | 25.00 | 1.253 | 0.262 | 22.1 |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | **0.250** | 0.02 | 24.02 | 25.00 | 1.253 | **0.313** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.174 | 0.11 | 23.06 | 24.00 | 1.242 | 0.216 | 22.1 |
| Back side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.200 | -0.01 | 23.06 | 24.00 | 1.242 | 0.248 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.248 | 0.07 | 24.02 | 25.00 | 1.253 | 0.311 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.240 | 0.05 | 24.02 | 25.00 | 1.253 | 0.301 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.360 | -0.02 | 24.02 | 25.00 | 1.253 | 0.451 | 22.1 |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | **0.489** | -0.04 | 24.02 | 25.00 | 1.253 | **0.613** | 22.1 |
| Left side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.325 | 0.02 | 24.02 | 25.00 | 1.253 | 0.407 | 22.1 |
| Right side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.074 | -0.12 | 24.02 | 25.00 | 1.253 | 0.092 | 22.1 |
| Bottom side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.218 | 0.00 | 24.02 | 25.00 | 1.253 | 0.273 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.359 | 0.18 | 23.06 | 24.00 | 1.242 | 0.446 | 22.1 |
| Back side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.487 | 0.02 | 23.06 | 24.00 | 1.242 | 0.605 | 22.1 |
| Left side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.250 | 0.01 | 23.06 | 24.00 | 1.242 | 0.310 | 22.1 |
| Right side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.057 | 0.03 | 23.06 | 24.00 | 1.242 | 0.070 | 22.1 |
| Bottom side | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.189 | 0.06 | 23.06 | 24.00 | 1.242 | 0.235 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.472 | 0.03 | 24.02 | 25.00 | 1.253 | 0.591 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.443 | 0.01 | 24.02 | 25.00 | 1.253 | 0.555 | 22.1 |
| **Ant 2 Test Record** | | | | | | | | | | | |
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.580 | -0.02 | 21.60 | 22.50 | 1.230 | 0.714 | 22.1 |
| Left tilted | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.555 | 0.13 | 21.60 | 22.50 | 1.230 | 0.683 | 22.1 |
| Right cheek | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.676 | 0.00 | 21.60 | 22.50 | 1.230 | 0.832 | 22.1 |
| Right tilted | 10 | QPSK 1RB_0 | 20600/844 | 1:1 | 0.618 | 0.06 | 21.60 | 22.50 | 1.230 | 0.760 | 22.1 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Right cheek | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.702 | 0.01 | 21.45 | 22.50 | 1.274 | 0.894 | 22.1 |
| Right cheek | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | **0.724** | 0.06 | 21.46 | 22.50 | 1.271 | **0.920** | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 10 | QPSK 25RB_13 | 20450/829 | 1:1 | 0.583 | 0.08 | 21.49 | 22.50 | 1.262 | 0.736 | 22.1 |
| Left tilted | 10 | QPSK 25RB_13 | 20450/829 | 1:1 | 0.557 | -0.06 | 21.49 | 22.50 | 1.262 | 0.703 | 22.1 |
| Right cheek | 10 | QPSK 25RB_13 | 20450/829 | 1:1 | 0.695 | 0.02 | 21.49 | 22.50 | 1.262 | 0.877 | 22.1 |
| Right tilted | 10 | QPSK 25RB_13 | 20450/829 | 1:1 | 0.600 | -0.03 | 21.49 | 22.50 | 1.262 | 0.757 | 22.1 |
| Right cheek | 10 | QPSK 25RB_13 | 20525/836.5 | 1:1 | 0.678 | 0.01 | 21.47 | 22.50 | 1.268 | 0.859 | 22.1 |
| Right cheek | 10 | QPSK 25RB_25 | 20600/844 | 1:1 | 0.676 | 0.01 | 21.44 | 22.50 | 1.276 | 0.863 | 22.1 |
| Head Test data(100%RB) | | | | | | | | | | | |
| Right cheek | 10 | QPSK 50RB_0 | 20450/829 | 1:1 | 0.687 | -0.05 | 21.40 | 22.50 | 1.288 | 0.885 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | 0.718 | -0.03 | 21.46 | 22.50 | 1.271 | 0.912 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | 0.696 | 0.04 | 21.46 | 22.50 | 1.271 | 0.884 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | 0.160 | 0.02 | 24.32 | 25.00 | 1.169 | 0.187 | 22.1 |
| Back side | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | **0.218** | -0.07 | 24.32 | 25.00 | 1.169 | **0.255** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 25RB_0 | 20525/836.5 | 1:1 | 0.128 | -0.01 | 23.20 | 24.00 | 1.202 | 0.154 | 22.1 |
| Back side | 10 | QPSK 25RB_0 | 20525/836.5 | 1:1 | 0.185 | 0.01 | 23.20 | 24.00 | 1.202 | 0.222 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | 0.234 | -0.01 | 24.32 | 25.00 | 1.169 | 0.274 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 1RB_0 | 20525/836.5 | 1:1 | 0.215 | -0.10 | 24.32 | 25.00 | 1.169 | 0.251 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.310 | 0.03 | 23.26 | 24.00 | 1.186 | 0.368 | 22.1 |
| Back side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.345 | 0.00 | 23.26 | 24.00 | 1.186 | 0.409 | 22.1 |
| Left side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.342 | 0.00 | 23.26 | 24.00 | 1.186 | 0.406 | 22.1 |
| Top side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.302 | 0.00 | 23.26 | 24.00 | 1.186 | 0.358 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.308 | 0.02 | 22.82 | 24.00 | 1.312 | 0.404 | 22.1 |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | **0.372** | 0.02 | 22.82 | 24.00 | 1.312 | **0.488** | 22.1 |
| Left side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.371 | 0.01 | 22.82 | 24.00 | 1.312 | 0.487 | 22.1 |
| Top side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.319 | 0.03 | 22.82 | 24.00 | 1.312 | 0.419 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.372 | -0.02 | 22.82 | 24.00 | 1.312 | 0.488 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.359 | 0.01 | 22.82 | 24.00 | 1.312 | 0.471 | 22.1 |

Table 27：SAR of LTE Band 5 for Head and Body.

Note:

1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **BW.** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **SAR (W/kg)1-g** | **Power Drift(dB)** | **Conducted power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Product Specific 10-g SAR SAR Exclusion** |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.310 | 0.03 | 23.26 | 25.00 | 1.493 | 0.463 | Yes |
| Back side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.345 | 0.00 | 23.26 | 25.00 | 1.493 | 0.515 | Yes |
| Left side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.342 | 0.00 | 23.26 | 25.00 | 1.493 | 0.511 | Yes |
| Right side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.122 | -0.05 | 23.26 | 25.00 | 1.493 | 0.182 | Yes |
| Top side | 10 | QPSK 1RB_0 | 20450/829 | 1:1 | 0.302 | 0.00 | 23.26 | 25.00 | 1.493 | 0.451 | Yes |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.308 | 0.02 | 22.82 | 24.00 | 1.312 | 0.404 | Yes |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.372 | 0.02 | 22.82 | 24.00 | 1.312 | 0.488 | Yes |
| Left side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.371 | 0.01 | 22.82 | 24.00 | 1.312 | 0.487 | Yes |
| Right side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.125 | -0.01 | 22.82 | 24.00 | 1.312 | 0.164 | Yes |
| Top side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.319 | 0.03 | 22.82 | 24.00 | 1.312 | 0.419 | Yes |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.372 | -0.02 | 22.82 | 25.00 | 1.652 | 0.615 | Yes |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 10 | QPSK 25RB_0 | 20450/829 | 1:1 | 0.359 | 0.01 | 22.82 | 25.00 | 1.652 | 0.593 | Yes |

Note: According to the table above and the SAR result, the main/second antenna are not required to test with 0mm for the Product Specific 10-g SAR.

## 8.3.9 SAR Result of LTE Band 7

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | **0.330** | -0.02 | 23.53 | 24.70 | 1.309 | **0.432** | 22.1 |
| Left tilted | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | 0.187 | 0.15 | 23.53 | 24.70 | 1.309 | 0.245 | 22.1 |
| Right cheek | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | 0.230 | 0.03 | 23.53 | 24.70 | 1.309 | 0.301 | 22.1 |
| Right tilted | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | 0.174 | 0.09 | 23.53 | 24.70 | 1.309 | 0.228 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 21350/2560 | 1:1 | 0.282 | 0.13 | 22.64 | 23.70 | 1.276 | 0.360 | 22.1 |
| Left tilted | 20 | QPSK 50RB_0 | 21350/2560 | 1:1 | 0.152 | 0.14 | 22.64 | 23.70 | 1.276 | 0.194 | 22.1 |
| Right cheek | 20 | QPSK 50RB_0 | 21350/2560 | 1:1 | 0.205 | 0.09 | 22.64 | 23.70 | 1.276 | 0.262 | 22.1 |
| Right tilted | 20 | QPSK 50RB_0 | 21350/2560 | 1:1 | 0.155 | -0.18 | 22.64 | 23.70 | 1.276 | 0.198 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | 0.308 | 0.16 | 23.53 | 24.70 | 1.309 | 0.403 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 21100/2535.5 | 1:1 | 0.288 | 0.18 | 23.53 | 24.70 | 1.309 | 0.377 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.112 | 0.15 | 22.47 | 23.70 | 1.327 | 0.149 | 22.1 |
| Back side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | **0.192** | 0.09 | 22.47 | 23.70 | 1.327 | **0.255** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.125 | 0.03 | 22.57 | 23.70 | 1.297 | 0.162 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.181 | -0.02 | 22.57 | 23.70 | 1.297 | 0.235 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.185 | 0.02 | 22.47 | 23.70 | 1.327 | 0.246 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.190 | 0.08 | 22.47 | 23.70 | 1.327 | 0.252 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.254 | 0.03 | 22.47 | 23.70 | 1.327 | 0.337 | 22.1 |
| Back side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.346 | 0.13 | 22.47 | 23.70 | 1.327 | 0.459 | 22.1 |
| Left side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.166 | -0.09 | 22.47 | 23.70 | 1.327 | 0.220 | 22.1 |
| Right side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.079 | -0.11 | 22.47 | 23.70 | 1.327 | 0.105 | 22.1 |
| Bottom side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | **0.481** | 0.17 | 22.47 | 23.70 | 1.327 | **0.638** | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.252 | 0.10 | 22.57 | 23.70 | 1.297 | 0.327 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.343 | 0.15 | 22.57 | 23.70 | 1.297 | 0.445 | 22.1 |
| Left side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.159 | -0.01 | 22.57 | 23.70 | 1.297 | 0.206 | 22.1 |
| Right side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.082 | -0.04 | 22.57 | 23.70 | 1.297 | 0.106 | 22.1 |
| Bottom side | 20 | QPSK 50RB_0 | 21100/2535.5 | 1:1 | 0.463 | -0.02 | 22.57 | 23.70 | 1.297 | 0.601 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.454 | -0.01 | 22.47 | 23.70 | 1.327 | 0.603 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_50 | 21100/2535.5 | 1:1 | 0.449 | 0.03 | 22.47 | 23.70 | 1.327 | 0.596 | 22.1 |

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.305 | 0.18 | 16.18 | 17.20 | 1.265 | 0.386 | 22.1 |
| Left tilted | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.264 | 0.11 | 16.18 | 17.20 | 1.265 | 0.334 | 22.1 |
| Right cheek | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.412 | 0.09 | 16.18 | 17.20 | 1.265 | **0.521** | 22.1 |
| Right tilted | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.328 | -0.04 | 16.18 | 17.20 | 1.265 | 0.415 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.303 | -0.07 | 16.32 | 17.20 | 1.225 | 0.371 | 22.1 |
| Left tilted | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.272 | -0.09 | 16.32 | 17.20 | 1.225 | 0.333 | 22.1 |
| Right cheek | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | **0.422** | 0.04 | 16.32 | 17.20 | 1.225 | 0.517 | 22.1 |
| Right tilted | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.321 | -0.14 | 16.32 | 17.20 | 1.225 | 0.393 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.352 | -0.16 | 16.18 | 17.20 | 1.265 | 0.445 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_50 | 21350/2560 | 1:1 | 0.353 | -0.09 | 16.18 | 17.20 | 1.265 | 0.446 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_50 | 20850/2510 | 1:1 | 0.163 | 0.02 | 21.71 | 22.70 | 1.256 | 0.205 | 22.1 |
| Back side | 20 | QPSK 1RB_50 | 20850/2510 | 1:1 | **0.211** | 0.04 | 21.71 | 22.70 | 1.256 | **0.265** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_50 | 21100/2535.5 | 1:1 | 0.168 | 0.13 | 21.50 | 22.70 | 1.318 | 0.221 | 22.1 |
| Back side | 20 | QPSK 50RB_50 | 21100/2535.5 | 1:1 | 0.146 | 0.03 | 21.50 | 22.70 | 1.318 | 0.192 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_50 | 20850/2510 | 1:1 | 0.208 | 0.12 | 21.71 | 22.70 | 1.256 | 0.261 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_50 | 20850/2510 | 1:1 | 0.197 | -0.06 | 21.71 | 22.70 | 1.256 | 0.247 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)(5G WIFI) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.254 | 0.14 | 20.35 | 21.70 | 1.365 | 0.347 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | **0.328** | 0.03 | 20.35 | 21.70 | 1.365 | **0.448** | 22.1 |
| Left side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.173 | -0.08 | 20.35 | 21.70 | 1.365 | 0.236 | 22.1 |
| Top side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.128 | 0.06 | 20.35 | 21.70 | 1.365 | 0.175 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB)(5G WIFI) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.179 | -0.06 | 20.50 | 21.70 | 1.318 | 0.236 | 22.1 |
| Back side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.248 | -0.04 | 20.50 | 21.70 | 1.318 | 0.327 | 22.1 |
| Left side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.091 | 0.04 | 20.50 | 21.70 | 1.318 | 0.120 | 22.1 |
| Top side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.066 | 0.03 | 20.50 | 21.70 | 1.318 | 0.087 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm)(5G WIFI) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.323 | 0.01 | 20.35 | 21.70 | 1.365 | 0.441 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm)(5G WIFI) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.320 | 0.16 | 20.35 | 21.70 | 1.365 | 0.437 | 22.1 |

Table 28：SAR of LTE Band 7 for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **BW.** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **SAR (W/kg)1-g** | **Power Drift(dB)** | **Conducted power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Product Specific 10-g SAR SAR Exclusion** |
| Hotspot Test data(Separate 10mm 1RB)(5G WIFI) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.254 | 0.14 | 20.35 | 22.70 | 1.718 | 0.436 | Yes |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.328 | 0.03 | 20.35 | 22.70 | 1.718 | 0.563 | Yes |
| Left side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.173 | -0.08 | 20.35 | 22.70 | 1.718 | 0.297 | Yes |
| Right side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.026 | -0.01 | 20.35 | 22.70 | 1.718 | 0.045 | Yes |
| Top side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.128 | 0.06 | 20.35 | 22.70 | 1.718 | 0.220 | Yes |
| Hotspot Test data (Separate 10mm 50%RB)(5G WIFI) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.179 | -0.06 | 20.50 | 22.70 | 1.660 | 0.297 | Yes |
| Back side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.248 | -0.04 | 20.50 | 22.70 | 1.660 | 0.412 | Yes |
| Left side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.091 | 0.04 | 20.50 | 22.70 | 1.660 | 0.152 | Yes |
| Right side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.011 | -0.05 | 20.50 | 22.70 | 1.660 | 0.018 | Yes |
| Top side | 20 | QPSK 50RB_50 | 21350/2560 | 1:1 | 0.066 | 0.03 | 20.50 | 22.70 | 1.660 | 0.109 | Yes |
| Body Test Data at the worst case with SIM 2 (Separate 10mm)(5G WIFI) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.323 | 0.01 | 20.35 | 22.70 | 1.718 | 0.555 | Yes |
| Body Test Data at the worst case with Battery 2# (Separate 10mm)(5G WIFI) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 20850/2510 | 1:1 | 0.320 | 0.16 | 20.35 | 22.70 | 1.718 | 0.550 | Yes |

Note: According to the table above and the SAR result, the main/second antenna are not required to test with 0mm for the Product Specific 10-g SAR.

## 8.3.10 SAR Result of LTE Band 26

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.039 | -0.02 | 23.37 | 24.50 | 1.297 | 0.050 | 22.1 |
| Left tilted | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.045 | -0.05 | 23.37 | 24.50 | 1.297 | 0.058 | 22.1 |
| Right cheek | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | **0.053** | 0.17 | 23.37 | 24.50 | 1.297 | **0.068** | 22.1 |
| Right tilted | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.037 | 0.02 | 23.37 | 24.50 | 1.297 | 0.048 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.036 | -0.08 | 22.29 | 23.50 | 1.321 | 0.047 | 22.1 |
| Left tilted | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.033 | -0.09 | 22.29 | 23.50 | 1.321 | 0.043 | 22.1 |
| Right cheek | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.041 | 0.02 | 22.29 | 23.50 | 1.321 | 0.054 | 22.1 |
| Right tilted | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.029 | 0.01 | 22.29 | 23.50 | 1.321 | 0.038 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.044 | -0.03 | 23.37 | 24.50 | 1.297 | 0.057 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.043 | -0.01 | 23.37 | 24.50 | 1.297 | 0.056 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.140 | 0.07 | 23.37 | 24.50 | 1.297 | 0.182 | 22.1 |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.173 | 0.02 | 23.37 | 24.50 | 1.297 | 0.224 | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.138 | 0.01 | 22.29 | 23.50 | 1.321 | 0.182 | 22.1 |
| Back side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.168 | 0.03 | 22.29 | 23.50 | 1.321 | 0.222 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.171 | -0.05 | 23.37 | 24.50 | 1.297 | 0.222 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | **0.181** | -0.04 | 23.37 | 24.50 | 1.297 | **0.235** | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.272 | -0.05 | 23.37 | 24.50 | 1.297 | 0.353 | 22.1 |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | **0.392** | 0.08 | 23.37 | 24.50 | 1.297 | **0.508** | 22.1 |
| Left side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.266 | 0.12 | 23.37 | 24.50 | 1.297 | 0.345 | 22.1 |
| Right side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.062 | 0.03 | 23.37 | 24.50 | 1.297 | 0.080 | 22.1 |
| Bottom side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.221 | 0.02 | 23.37 | 24.50 | 1.297 | 0.287 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.257 | 0.08 | 22.29 | 23.50 | 1.321 | 0.340 | 22.1 |
| Back side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.339 | 0.19 | 22.29 | 23.50 | 1.321 | 0.448 | 22.1 |
| Left side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.240 | 0.01 | 22.29 | 23.50 | 1.321 | 0.317 | 22.1 |
| Right side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.049 | 0.07 | 22.29 | 23.50 | 1.321 | 0.064 | 22.1 |
| Bottom side | 15 | QPSK 36RB_39 | 26865/831.5 | 1:1 | 0.184 | 0.01 | 22.29 | 23.50 | 1.321 | 0.243 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.391 | 0.11 | 23.37 | 24.50 | 1.297 | 0.507 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_38 | 26765/821.5 | 1:1 | 0.383 | 0.16 | 23.37 | 24.50 | 1.297 | 0.497 | 22.1 |

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.315 | 0.02 | 19.99 | 21.00 | 1.262 | 0.397 | 22.1 |
| Left tilted | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.320 | -0.15 | 19.99 | 21.00 | 1.262 | 0.404 | 22.1 |
| Right cheek | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.395 | -0.06 | 19.99 | 21.00 | 1.262 | 0.498 | 22.1 |
| Right tilted | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.344 | -0.02 | 19.99 | 21.00 | 1.262 | 0.434 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 15 | QPSK 36RB_18 | 26765/821.5 | 1:1 | 0.280 | 0.09 | 20.08 | 21.00 | 1.236 | 0.346 | 22.1 |
| Left tilted | 15 | QPSK 36RB_18 | 26765/821.5 | 1:1 | 0.284 | 0.02 | 20.08 | 21.00 | 1.236 | 0.351 | 22.1 |
| Right cheek | 15 | QPSK 36RB_18 | 26765/821.5 | 1:1 | 0.366 | 0.09 | 20.08 | 21.00 | 1.236 | 0.452 | 22.1 |
| Right tilted | 15 | QPSK 36RB_18 | 26765/821.5 | 1:1 | 0.330 | -0.13 | 20.08 | 21.00 | 1.236 | 0.408 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.394 | -0.09 | 19.99 | 21.00 | 1.262 | 0.497 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | **0.398** | 0.07 | 19.99 | 21.00 | 1.262 | **0.502** | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.101 | 0.04 | 23.31 | 24.50 | 1.315 | 0.133 | 22.1 |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | **0.142** | 0.03 | 23.31 | 24.50 | 1.315 | **0.187** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.086 | 0.06 | 22.35 | 23.50 | 1.303 | 0.113 | 22.1 |
| Back side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.111 | 0.01 | 22.35 | 23.50 | 1.303 | 0.145 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.128 | 0.04 | 23.31 | 24.50 | 1.315 | 0.168 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.126 | 0.02 | 23.31 | 24.50 | 1.315 | 0.166 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.207 | 0.00 | 23.31 | 24.50 | 1.315 | 0.272 | 22.1 |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | **0.290** | 0.03 | 23.31 | 24.50 | 1.315 | **0.381** | 22.1 |
| Left side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.258 | 0.02 | 23.31 | 24.50 | 1.315 | 0.339 | 22.1 |
| Top side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.235 | 0.08 | 23.31 | 24.50 | 1.315 | 0.309 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.186 | 0.02 | 22.35 | 23.50 | 1.303 | 0.242 | 22.1 |
| Back side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.224 | 0.02 | 22.35 | 23.50 | 1.303 | 0.292 | 22.1 |
| Left side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.223 | -0.02 | 22.35 | 23.50 | 1.303 | 0.291 | 22.1 |
| Top side | 15 | QPSK 36RB_0 | 26865/831.5 | 1:1 | 0.206 | -0.01 | 22.35 | 23.50 | 1.303 | 0.268 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.267 | 0.02 | 23.31 | 24.50 | 1.315 | 0.351 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm)(5G WIFI) | | | | | | | | | | | |
| Back side | 15 | QPSK 1RB_74 | 26765/821.5 | 1:1 | 0.270 | -0.05 | 23.31 | 24.50 | 1.315 | 0.355 | 22.1 |

Table 29：SAR of LTE Band 26 for Head and Body.

Note:

1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.11 SAR Result of LTE Band 38

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.208** | -0.02 | 23.16 | 24.20 | 1.271 | **0.264** | 22.1 |
| Left tilted | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.108 | 0.04 | 23.16 | 24.20 | 1.271 | 0.137 | 22.1 |
| Right cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.155 | 0.04 | 23.16 | 24.20 | 1.271 | 0.197 | 22.1 |
| Right tilted | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.120 | 0.05 | 23.16 | 24.20 | 1.271 | 0.152 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.148 | 0.12 | 22.13 | 23.20 | 1.279 | 0.189 | 22.1 |
| Left tilted | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.080 | 0.02 | 22.13 | 23.20 | 1.279 | 0.102 | 22.1 |
| Right cheek | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.111 | -0.12 | 22.13 | 23.20 | 1.279 | 0.142 | 22.1 |
| Right tilted | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.080 | 0.07 | 22.13 | 23.20 | 1.279 | 0.102 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.201 | 0.07 | 23.16 | 24.20 | 1.271 | 0.255 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.176 | 0.07 | 23.16 | 24.20 | 1.271 | 0.224 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.116 | -0.05 | 23.16 | 24.20 | 1.271 | 0.147 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.139** | -0.09 | 23.16 | 24.20 | 1.271 | **0.177** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.086 | -0.07 | 22.13 | 23.20 | 1.279 | 0.110 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.106 | -0.01 | 22.13 | 23.20 | 1.279 | 0.136 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.137 | 0.04 | 23.16 | 24.20 | 1.271 | 0.174 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.136 | 0.06 | 23.16 | 24.20 | 1.271 | 0.173 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.223 | -0.19 | 23.16 | 24.20 | 1.271 | 0.283 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.287 | 0.07 | 23.16 | 24.20 | 1.271 | 0.365 | 22.1 |
| Left side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.153 | 0.00 | 23.16 | 24.20 | 1.271 | 0.194 | 22.1 |
| Right side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.096 | -0.04 | 23.16 | 24.20 | 1.271 | 0.121 | 22.1 |
| Bottom side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.366** | 0.04 | 23.16 | 24.20 | 1.271 | **0.465** | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.159 | -0.09 | 22.13 | 23.20 | 1.279 | 0.203 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.201 | -0.09 | 22.13 | 23.20 | 1.279 | 0.257 | 22.1 |
| Left side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.121 | 0.00 | 22.13 | 23.20 | 1.279 | 0.155 | 22.1 |
| Right side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.060 | -0.02 | 22.13 | 23.20 | 1.279 | 0.077 | 22.1 |
| Bottom side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.279 | 0.13 | 22.13 | 23.20 | 1.279 | 0.357 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.363 | -0.16 | 23.16 | 24.20 | 1.271 | 0.461 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.360 | 0.09 | 23.16 | 24.20 | 1.271 | 0.457 | 22.1 |

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.449 | -0.04 | 19.41 | 20.70 | 1.346 | 0.604 | 22.1 |
| Left tilted | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.446 | -0.08 | 19.41 | 20.70 | 1.346 | 0.600 | 22.1 |
| Right cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.594** | 0.05 | 19.41 | 20.70 | 1.346 | **0.799** | 22.1 |
| Right tilted | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.455 | -0.19 | 19.41 | 20.70 | 1.346 | 0.612 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_50 | 37850/2580 | 1:1.58 | 0.403 | 0.01 | 19.36 | 20.70 | 1.361 | 0.549 | 22.1 |
| Left tilted | 20 | QPSK 50RB_50 | 37850/2580 | 1:1.58 | 0.369 | -0.16 | 19.36 | 20.70 | 1.361 | 0.502 | 22.1 |
| Right cheek | 20 | QPSK 50RB_50 | 37850/2580 | 1:1.58 | 0.539 | 0.04 | 19.36 | 20.70 | 1.361 | 0.734 | 22.1 |
| Right tilted | 20 | QPSK 50RB_50 | 37850/2580 | 1:1.58 | 0.422 | -0.18 | 19.36 | 20.70 | 1.361 | 0.575 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.544 | -0.05 | 19.41 | 20.70 | 1.346 | 0.732 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.508 | -0.06 | 19.41 | 20.70 | 1.346 | 0.684 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.075 | 0.02 | 22.87 | 24.20 | 1.358 | 0.101 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.081** | -0.04 | 22.87 | 24.20 | 1.358 | **0.110** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.077 | 0.06 | 21.88 | 23.20 | 1.355 | 0.104 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.080 | 0.03 | 21.88 | 23.20 | 1.355 | 0.108 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.071 | 0.03 | 22.87 | 24.20 | 1.358 | 0.097 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.080 | -0.06 | 22.87 | 24.20 | 1.358 | 0.108 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.168 | 0.09 | 22.87 | 24.20 | 1.358 | 0.228 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | **0.241** | 0.04 | 22.87 | 24.20 | 1.358 | **0.327** | 22.1 |
| Left side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.083 | 0.04 | 22.87 | 24.20 | 1.358 | 0.112 | 22.1 |
| Top side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.087 | -0.03 | 22.87 | 24.20 | 1.358 | 0.118 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.142 | -0.07 | 21.88 | 23.20 | 1.355 | 0.192 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.206 | -0.04 | 21.88 | 23.20 | 1.355 | 0.279 | 22.1 |
| Left side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.054 | 0.02 | 21.88 | 23.20 | 1.355 | 0.073 | 22.1 |
| Top side | 20 | QPSK 50RB_0 | 37850/2580 | 1:1.58 | 0.054 | 0.02 | 21.88 | 23.20 | 1.355 | 0.073 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.214 | 0.07 | 22.87 | 24.20 | 1.358 | 0.291 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 38150/2610 | 1:1.58 | 0.218 | 0.07 | 22.87 | 24.20 | 1.358 | 0.296 | 22.1 |

Table 30：SAR of LTE Band 38 for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.12 SAR Result of LTE Band 41

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | **0.178** | 0.05 | 23.19 | 24.20 | 1.262 | **0.225** | 22.1 |
| Left tilted | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.093 | 0.11 | 23.19 | 24.20 | 1.262 | 0.117 | 22.1 |
| Right cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.129 | 0.06 | 23.19 | 24.20 | 1.262 | 0.163 | 22.1 |
| Right tilted | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.097 | 0.02 | 23.19 | 24.20 | 1.262 | 0.122 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.172 | 0.04 | 22.09 | 23.20 | 1.291 | 0.222 | 22.1 |
| Left tilted | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.078 | 0.08 | 22.09 | 23.20 | 1.291 | 0.100 | 22.1 |
| Right cheek | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.126 | 0.05 | 22.09 | 23.20 | 1.291 | 0.163 | 22.1 |
| Right tilted | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.112 | 0.07 | 22.09 | 23.20 | 1.291 | 0.145 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.177 | 0.01 | 23.19 | 24.20 | 1.262 | 0.223 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.161 | 0.15 | 23.19 | 24.20 | 1.262 | 0.203 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.104 | 0.08 | 23.19 | 24.20 | 1.262 | 0.131 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | **0.134** | 0.05 | 23.19 | 24.20 | 1.262 | **0.169** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.094 | -0.03 | 22.09 | 23.20 | 1.291 | 0.122 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.109 | 0.13 | 22.09 | 23.20 | 1.291 | 0.141 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.133 | -0.06 | 23.19 | 24.20 | 1.262 | 0.168 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.127 | 0.09 | 23.19 | 24.20 | 1.262 | 0.160 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.203 | 0.07 | 23.19 | 24.20 | 1.262 | 0.256 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.260 | 0.06 | 23.19 | 24.20 | 1.262 | 0.328 | 22.1 |
| Left side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.137 | 0.06 | 23.19 | 24.20 | 1.262 | 0.173 | 22.1 |
| Right side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.071 | 0.03 | 23.19 | 24.20 | 1.262 | 0.089 | 22.1 |
| Bottom side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | **0.358** | -0.05 | 23.19 | 24.20 | 1.262 | **0.452** | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.171 | 0.03 | 22.09 | 23.20 | 1.291 | 0.221 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.222 | -0.03 | 22.09 | 23.20 | 1.291 | 0.287 | 22.1 |
| Left side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.108 | -0.05 | 22.09 | 23.20 | 1.291 | 0.139 | 22.1 |
| Right side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.070 | -0.03 | 22.09 | 23.20 | 1.291 | 0.091 | 22.1 |
| Bottom side | 20 | QPSK 50RB_0 | 41140/2645 | 1:1.58 | 0.280 | 0.00 | 22.09 | 23.20 | 1.291 | 0.362 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.352 | 0.18 | 23.19 | 24.20 | 1.262 | 0.444 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Bottom side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.347 | 0.07 | 23.19 | 24.20 | 1.262 | 0.438 | 22.1 |


No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test position | BW. | Test mode | Test Ch./Freq. | Duty Cycle | SAR (W/kg)1-g | Power Drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data(1RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.371 | 0.03 | 18.89 | 20.20 | 1.352 | 0.502 | 22.1 |
| Left tilted | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.332 | -0.05 | 18.89 | 20.20 | 1.352 | 0.449 | 22.1 |
| Right cheek | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.498 | 0.04 | 18.89 | 20.20 | 1.352 | 0.673 | 22.1 |
| Right tilted | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.405 | -0.17 | 18.89 | 20.20 | 1.352 | 0.548 | 22.1 |
| Head Test data(50%RB) | | | | | | | | | | | |
| Left cheek | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | 0.368 | 0.15 | 18.94 | 20.20 | 1.337 | 0.492 | 22.1 |
| Left tilted | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | 0.318 | -0.14 | 18.94 | 20.20 | 1.337 | 0.425 | 22.1 |
| Right cheek | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | **0.519** | 0.02 | 18.94 | 20.20 | 1.337 | **0.694** | 22.1 |
| Right tilted | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | 0.446 | 0.08 | 18.94 | 20.20 | 1.337 | 0.596 | 22.1 |
| Head Test Data at the worst case with SIM 2 | | | | | | | | | | | |
| Right cheek | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | 0.471 | 0.01 | 18.94 | 20.20 | 1.337 | 0.630 | 22.1 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Right cheek | 20 | QPSK 50RB_0 | 40240/25555 | 1:1.58 | 0.478 | -0.02 | 18.94 | 20.20 | 1.337 | 0.639 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.106 | 0.03 | 22.88 | 24.20 | 1.355 | 0.144 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | **0.115** | 0.05 | 22.88 | 24.20 | 1.355 | **0.156** | 22.1 |
| Body worn Test data (Separate 15mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.050 | 0.06 | 21.89 | 23.20 | 1.352 | 0.067 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.058 | 0.03 | 21.89 | 23.20 | 1.352 | 0.078 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.113 | 0.06 | 22.88 | 24.20 | 1.355 | 0.153 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.112 | 0.01 | 22.88 | 24.20 | 1.355 | 0.152 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.209 | 0.09 | 22.88 | 24.20 | 1.355 | 0.283 | 22.1 |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | **0.289** | -0.02 | 22.88 | 24.20 | 1.355 | **0.392** | 22.1 |
| Left side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.095 | -0.03 | 22.88 | 24.20 | 1.355 | 0.128 | 22.1 |
| Top side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.063 | 0.00 | 22.88 | 24.20 | 1.355 | 0.085 | 22.1 |
| Hotspot Test data (Separate 10mm 50%RB) | | | | | | | | | | | |
| Front side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.113 | -0.08 | 21.89 | 23.20 | 1.352 | 0.153 | 22.1 |
| Back side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.161 | 0.07 | 21.89 | 23.20 | 1.352 | 0.218 | 22.1 |
| Left side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.059 | -0.03 | 21.89 | 23.20 | 1.352 | 0.080 | 22.1 |
| Top side | 20 | QPSK 50RB_0 | 40840/2615 | 1:1.58 | 0.064 | 0.03 | 21.89 | 23.20 | 1.352 | 0.087 | 22.1 |
| Body Test Data at the worst case with SIM 2 (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.263 | 0.02 | 22.88 | 24.20 | 1.355 | 0.356 | 22.1 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Back side | 20 | QPSK 1RB_99 | 40240/25555 | 1:1.58 | 0.281 | 0.06 | 22.88 | 24.20 | 1.355 | 0.381 | 22.1 |

Table 31：SAR of LTE Band 41 for Head and Body.

Note:

1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 8.3.13 SAR Result of WIFI 2.4G

| Ant 1 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **Duty Cycle Scaled factor** | **SAR (W/kg)1-g** | **Power drift(dB)** | **Conducted power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Liquid Temp.** |
| Head Test data | | | | | | | | | | | |
| Left cheek | 802.11b | 1/2412 | 98.74% | 1.01 | 0.130 | 0.07 | 10.56 | 12.10 | 1.426 | 0.187 | 22 |
| Left tilted | 802.11b | 1/2412 | 98.74% | 1.01 | **0.176** | 0.06 | 10.56 | 12.10 | 1.426 | **0.253** | 22 |
| Right cheek | 802.11b | 1/2412 | 98.74% | 1.01 | 0.112 | -0.06 | 10.56 | 12.10 | 1.426 | 0.161 | 22 |
| Right tilted | 802.11b | 1/2412 | 98.74% | 1.01 | 0.145 | -0.06 | 10.56 | 12.10 | 1.426 | 0.209 | 22 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left tilted | 802.11b | 1/2412 | 98.74% | 1.01 | 0.156 | 0.05 | 10.56 | 12.10 | 1.426 | 0.225 | 22 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.016 | 0.03 | 17.78 | 19.00 | 1.324 | 0.021 | 22 |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | **0.064** | -0.04 | 17.78 | 19.00 | 1.324 | **0.086** | 22 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.061 | -0.18 | 17.78 | 19.00 | 1.324 | 0.082 | 22 |
| Hotspot Test data (Separate 10mm) | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.090 | -0.04 | 17.78 | 19.00 | 1.324 | 0.120 | 22 |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.140 | 0.18 | 17.78 | 19.00 | 1.324 | 0.187 | 22 |
| Right side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.033 | -0.03 | 17.78 | 19.00 | 1.324 | 0.043 | 22 |
| Top side | 802.11b | 11/2462 | 98.74% | 1.01 | **0.287** | 0.10 | 17.78 | 19.00 | 1.324 | **0.384** | 22 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Top side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.281 | -0.02 | 17.78 | 19.00 | 1.324 | 0.376 | 22 |



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| Ant 2 Test Record | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test position** | **Test mode** | **Test Ch./Freq.** | **Duty Cycle** | **Duty Cycle Scaled factor** | **SAR (W/kg)1-g** | **Power drift(dB)** | **Conducted power(dBm)** | **Tune up Limit(dBm)** | **Scaled factor** | **Scaled SAR(W/kg)** | **Liquid Temp.** |
| Head Test data | | | | | | | | | | | |
| Left cheek | 802.11b | 11/2462 | 98.74% | 1.01 | **0.201** | 0.08 | 10.25 | 12.10 | 1.531 | **0.312** | 22 |
| Left tilted | 802.11b | 11/2462 | 98.74% | 1.01 | 0.087 | 0.06 | 10.25 | 12.10 | 1.531 | 0.136 | 22 |
| Right cheek | 802.11b | 11/2462 | 98.74% | 1.01 | 0.021 | -0.05 | 10.25 | 12.10 | 1.531 | 0.032 | 22 |
| Right tilted | 802.11b | 11/2462 | 98.74% | 1.01 | 0.016 | 0.03 | 10.25 | 12.10 | 1.531 | 0.024 | 22 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left cheek | 802.11b | 11/2462 | 98.74% | 1.01 | 0.193 | 0.17 | 10.25 | 12.10 | 1.531 | 0.299 | 22 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.071 | -0.06 | 17.74 | 19.00 | 1.337 | 0.096 | 22 |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | **0.090** | -0.10 | 17.74 | 19.00 | 1.337 | **0.122** | 22 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.080 | -0.08 | 17.74 | 19.00 | 1.337 | 0.108 | 22 |
| Hotspot Test data (Separate 10mm) | | | | | | | | | | | |
| Front side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.139 | -0.11 | 17.74 | 19.00 | 1.337 | 0.188 | 22 |
| Back side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.163 | -0.04 | 17.74 | 19.00 | 1.337 | 0.221 | 22 |
| Right side | 802.11b | 11/2462 | 98.74% | 1.01 | **0.250** | 0.03 | 17.74 | 19.00 | 1.337 | **0.338** | 22 |
| Top side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.098 | 0.05 | 17.74 | 19.00 | 1.337 | 0.132 | 22 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Right side | 802.11b | 11/2462 | 98.74% | 1.01 | 0.227 | -0.19 | 17.74 | 19.00 | 1.337 | 0.307 | 22 |

Table 32：SAR of WIFI 2.4G for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ⩽ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

## 8.3.14 SAR Result of WIFI 5G

| Test position | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)1-g | Power drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Head Test data of U-NII-2A | | | | | | | | | | | |
| Left cheek | 802.11a | 60/5300 | 98.36% | 1.02 | 0.217 | 0.07 | 12.08 | 12.60 | 1.127 | 0.249 | 22.2 |
| Left tilted | 802.11a | 60/5300 | 98.36% | 1.02 | **0.225** | 0.05 | 12.08 | 12.60 | 1.127 | 0.258 | 22.2 |
| Right cheek | 802.11a | 60/5300 | 98.36% | 1.02 | 0.025 | 0.04 | 12.08 | 12.60 | 1.127 | 0.029 | 22.2 |
| Right tilted | 802.11a | 60/5300 | 98.36% | 1.02 | 0.015 | 0.07 | 12.08 | 12.60 | 1.127 | 0.017 | 22.2 |
| Head Test data of U-NII-2C | | | | | | | | | | | |
| Left cheek | 802.11a | 104/5520 | 98.36% | 1.02 | 0.143 | 0.00 | 12.08 | 12.60 | 1.127 | 0.164 | 22.2 |
| Left tilted | 802.11a | 104/5520 | 98.36% | 1.02 | 0.201 | 0.00 | 12.08 | 12.60 | 1.127 | 0.230 | 22.2 |
| Right cheek | 802.11a | 104/5520 | 98.36% | 1.02 | 0.052 | 0.00 | 12.08 | 12.60 | 1.127 | 0.060 | 22.2 |
| Right tilted | 802.11a | 104/5520 | 98.36% | 1.02 | 0.033 | -0.06 | 12.08 | 12.60 | 1.127 | 0.038 | 22.2 |
| Head Test data of U-NII-3 | | | | | | | | | | | |
| Left cheek | 802.11a | 157/5785 | 98.36% | 1.02 | 0.153 | -0.11 | 12.00 | 12.60 | 1.148 | 0.179 | 22.2 |
| Left tilted | 802.11a | 157/5785 | 98.36% | 1.02 | 0.222 | -0.03 | 12.00 | 12.60 | 1.148 | **0.259** | 22.2 |
| Right cheek | 802.11a | 157/5785 | 98.36% | 1.02 | 0.047 | 0.06 | 12.00 | 12.60 | 1.148 | 0.054 | 22.2 |
| Right tilted | 802.11a | 157/5785 | 98.36% | 1.02 | 0.026 | 0.03 | 12.00 | 12.60 | 1.148 | 0.031 | 22.2 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left tilted | 802.11a | 157/5785 | 98.36% | 1.02 | 0.217 | -0.04 | 12.00 | 12.60 | 1.148 | 0.253 | 22.2 |
| Body worn Test data of U-NII-2A (Separate 15mm) | | | | | | | | | | | |
| Front side | 802.11a | 60/5300 | 98.36% | 1.02 | 0.065 | -0.01 | 16.67 | 17.50 | 1.211 | 0.080 | 22.2 |
| Back side | 802.11a | 60/5300 | 98.36% | 1.02 | 0.073 | -0.01 | 16.67 | 17.50 | 1.211 | 0.089 | 22.2 |
| Body worn Test data of U-NII-2C(Separate 15mm) | | | | | | | | | | | |
| Front side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.045 | -0.09 | 16.78 | 17.50 | 1.180 | 0.054 | 22.2 |
| Back side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.055 | -0.06 | 16.78 | 17.50 | 1.180 | 0.066 | 22.2 |
| Body worn Test data of U-NII-3(Separate 15mm) | | | | | | | | | | | |
| Front side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.057 | 0.04 | 16.06 | 17.50 | 1.393 | 0.081 | 22.2 |
| Back side | 802.11a | 161/5805 | 98.36% | 1.02 | **0.087** | 0.00 | 16.06 | 17.50 | 1.393 | **0.123** | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 15mm) | | | | | | | | | | | |
| Back side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.086 | 0.00 | 16.06 | 17.50 | 1.393 | 0.122 | 22.2 |
| Hotspot Test data of U-NII-1(Separate 10mm) | | | | | | | | | | | |
| Front side | 802.11a | 48/5240 | 98.36% | 1.02 | 0.066 | 0.10 | 16.59 | 17.50 | 1.233 | 0.083 | 22.2 |
| Back side | 802.11a | 48/5240 | 98.36% | 1.02 | 0.099 | -0.19 | 16.59 | 17.50 | 1.233 | 0.124 | 22.2 |
| Left side | 802.11a | 48/5240 | 98.36% | 1.02 | 0.003 | 0.09 | 16.59 | 17.50 | 1.233 | 0.003 | 22.2 |
| Right side | 802.11a | 48/5240 | 98.36% | 1.02 | 0.210 | -0.04 | 16.59 | 17.50 | 1.233 | 0.263 | 22.2 |
| Top side | 802.11a | 48/5240 | 98.36% | 1.02 | 0.100 | -0.06 | 16.59 | 17.50 | 1.233 | 0.125 | 22.2 |
| Hotspot Test data of U-NII-3 (Separate 10mm) | | | | | | | | | | | |
| Front side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.096 | -0.06 | 16.06 | 17.50 | 1.393 | 0.135 | 22.2 |
| Back side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.134 | -0.10 | 16.06 | 17.50 | 1.393 | 0.190 | 22.2 |
| Right side | 802.11a | 161/5805 | 98.36% | 1.02 | **0.234** | -0.06 | 16.06 | 17.50 | 1.393 | **0.331** | 22.2 |
| Top side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.114 | -0.09 | 16.06 | 17.50 | 1.393 | 0.161 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 10mm) | | | | | | | | | | | |
| Right side | 802.11a | 161/5805 | 98.36% | 1.02 | 0.220 | -0.07 | 16.06 | 17.50 | 1.393 | 0.312 | 22.2 |



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| Test position | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)10-g | Power drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Product specific 10g SAR Test data of U-NII-2A(Separate 0mm) | | | | | | | | | | | |
| Front side | 802.11a | 60/5300 | 98.36% | 1.02 | 0.460 | 0.00 | 16.67 | 17.50 | 1.211 | 0.566 | 22.2 |
| Back side | 802.11a | 60/5300 | 98.36% | 1.02 | 0.719 | 0.09 | 16.67 | 17.50 | 1.211 | 0.885 | 22.2 |
| Right side | 802.11a | 60/5300 | 98.36% | 1.02 | **1.050** | 0.09 | 16.67 | 17.50 | 1.211 | **1.292** | 22.2 |
| Top side | 802.11a | 60/5300 | 98.36% | 1.02 | 0.452 | 0.07 | 16.67 | 17.50 | 1.211 | 0.556 | 22.2 |
| Product specific 10g SAR Test data of U-NII-2C(Separate 0mm) | | | | | | | | | | | |
| Front side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.403 | 0.00 | 16.78 | 17.50 | 1.180 | 0.484 | 22.2 |
| Back side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.631 | 0.00 | 16.78 | 17.50 | 1.180 | 0.757 | 22.2 |
| Right side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.941 | 19.00 | 16.78 | 17.50 | 1.180 | 1.129 | 22.2 |
| Top side | 802.11a | 104/5520 | 98.36% | 1.02 | 0.344 | 0.06 | 16.78 | 17.50 | 1.180 | 0.413 | 22.2 |
| Body Test Data at the worst case with Battery 2# (Separate 0mm) | | | | | | | | | | | |
| Right side | 802.11a | 60/5300 | 98.36% | 1.02 | 1.000 | 0.04 | 16.67 | 17.50 | 1.211 | 1.231 | 22.2 |

Table 33：SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
3) Each channel was tested at the lowest data rate.
4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ⩽ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
5) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
6) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ⩽ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

### 8.3.15 SAR Result of BT

| Test position | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)1-g | Power drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Head Test data | | | | | | | | | | | |
| Left cheek | DH5 | 10/2412 | 76.78% | 1.30 | 0.087 | 0.01 | 9.52 | 11.00 | 1.406 | 0.160 | 22 |
| Left tilted | DH5 | 10/2412 | 76.78% | 1.30 | **0.099** | 0.17 | 9.52 | 11.00 | 1.406 | **0.182** | 22 |
| Right cheek | DH5 | 10/2412 | 76.78% | 1.30 | 0.065 | 0.16 | 9.52 | 11.00 | 1.406 | 0.120 | 22 |
| Right tilted | DH5 | 10/2412 | 76.78% | 1.30 | 0.099 | -0.01 | 9.52 | 11.00 | 1.406 | 0.181 | 22 |
| Head Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Left tilted | DH5 | 10/2412 | 76.78% | 1.30 | 0.098 | 0.11 | 9.52 | 11.00 | 1.406 | 0.179 | 22 |
| Body worn Test data(Separate 15mm) | | | | | | | | | | | |
| Front side | DH5 | 5/2432 | 76.78% | 1.30 | 0.056 | 0.01 | 15.83 | 17.50 | 1.469 | 0.108 | 22 |
| Back side | DH5 | 5/2432 | 76.78% | 1.30 | **0.071** | 0.06 | 15.83 | 17.50 | 1.469 | **0.135** | 22 |
| Body worn Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Back side | DH5 | 5/2432 | 76.78% | 1.30 | 0.063 | 0.09 | 15.83 | 17.50 | 1.469 | 0.121 | 22 |
| Hotspot Test data (Separate 10mm) | | | | | | | | | | | |
| Front side | DH5 | 5/2432 | 76.78% | 1.30 | 0.112 | -0.02 | 15.83 | 17.50 | 1.469 | 0.214 | 22 |
| Back side | DH5 | 5/2432 | 76.78% | 1.30 | 0.144 | 0.09 | 15.83 | 17.50 | 1.469 | 0.276 | 22 |
| Right side | DH5 | 5/2432 | 76.78% | 1.30 | 0.022 | -0.18 | 15.83 | 17.50 | 1.469 | 0.042 | 22 |
| Top side | DH5 | 5/2432 | 76.78% | 1.30 | 0.265 | -0.05 | 15.83 | 17.50 | 1.469 | 0.507 | 22 |
| Hotspot Test Data at the worst case with Battery 2# | | | | | | | | | | | |
| Top side | DH5 | 5/2432 | 76.78% | 1.30 | **0.268** | -0.01 | 15.83 | 17.50 | 1.469 | **0.513** | 22 |

Table 34：SAR of BT for Head and Body.

Note:

1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg

## 8.4 Multiple Transmitter Evaluation

### 8.4.1Simultaneous SAR SAR test evaluation

- **Simultaneous Transmission Possibilities (BT is at low power level B)**

| NO. | Simultaneous TX Combination | Head | Body-worn | Hotspot | Product Specific 10-g (0mm) |
|---|---|---|---|---|---|
| 1 | GSM Voice(Ant 1) + BT | Yes | Yes | N/A | Yes |
| 2 | GSM DATA(Ant 1) + BT | N/A | Yes | Yes | Yes |
| 3 | GSM Voice(Ant 2) + BT | Yes | Yes | N/A | Yes |
| 4 | GSM DATA (Ant 2)+ BT | N/A | Yes | Yes | Yes |
| 5 | WCDMA (Ant 1) + BT | Yes | Yes | Yes | Yes |
| 6 | WCDMA (Ant 2) + BT | Yes | Yes | Yes | Yes |
| 7 | LTE(Ant 1) + BT | Yes | Yes | Yes | Yes |
| 8 | LTE (Ant 2) + BT | Yes | Yes | Yes | Yes |
| 9 | GSM Voice(Ant 1) + BT+ Wi-Fi 5G | Yes | Yes | N/A | Yes |
| 10 | GSM DATA(Ant 1) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 11 | GSM Voice(Ant 2) + BT+ Wi-Fi 5G | Yes | Yes | N/A | Yes |
| 12 | GSM DATA (Ant 2)+ BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 13 | WCDMA (Ant 1) + BT+ Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 14 | WCDMA (Ant 2) + BT+ Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 15 | LTE (Ant 1) + BT+ Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 16 | LTE (Ant 2) + BT+ Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 17 | GSM Voice(Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | N/A | Yes |
| 18 | GSM DATA(Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 19 | GSM Voice(Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | N/A | Yes |
| 20 | GSM DATA (Ant 2)+ BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 21 | WCDMA (Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | Yes | Yes |
| 22 | WCDMA (Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | Yes | Yes |
| 23 | LTE (Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | Yes | Yes |
| 24 | LTE (Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | Yes | Yes | Yes | Yes |
| 25 | GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+ BT | Yes | Yes | N/A | Yes |
| 26 | GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | N/A | Yes | Yes | Yes |
| 27 | GSM Voice（(Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+ BT | Yes | Yes | N/A | Yes |
| 28 | GSM Voice (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | N/A | Yes | Yes | Yes |
| 29 | WCDMA (Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | Yes | Yes | Yes | Yes |
| 30 | WCDMA (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | Yes | Yes | Yes | Yes |
| 31 | LTE (Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | Yes | Yes | Yes | Yes |
| 32 | LTE (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G+BT | Yes | Yes | Yes | Yes |

Note:

1) Wi-Fi 2.4G Ant.1 cannot transmit simultaneously with BT. While Wi-Fi 2.4G Ant.2 can transmit simultaneously with BT.
2) Wi-Fi 5G can transmit simultaneously with Bluetooth.
3) Wi-Fi 2.4G& Wi-Fi 5G can't work at same mode, but they can transmit simultaneously at different modes (Wi-Fi station/P-to-P) by using different Wi-Fi antennas.
4) The device does not support DTM function.
5) * VoLTE or pre-installed VOIP applications are considered.
6) The Main Antenna (Ant1) and Second Antenna (Ant 2) can't transmit simultaneously.
7) The device supports Vo-WIFI function.
8) WIFI 2.4G hotspot does not support CDD/MIMO mode.

- **Simultaneous Transmission Possibilities (BT is at high power level A)**

| NO. | Simultaneous TX Combination | Head | Body-worn | Hotspot | Product Specific 10-g (0mm) |
|---|---|---|---|---|---|
| 1 | GSM Voice(Ant 1) + BT | N/A | Yes | N/A | Yes |
| 2 | GSM DATA(Ant 1) + BT | N/A | Yes | Yes | Yes |
| 3 | GSM Voice(Ant 2) + BT | N/A | Yes | N/A | Yes |
| 4 | GSM DATA (Ant 2)+ BT | N/A | Yes | Yes | Yes |
| 5 | WCDMA (Ant 1) + BT | N/A | Yes | Yes | Yes |
| 6 | WCDMA (Ant 1) + BT | N/A | Yes | Yes | Yes |
| 7 | LTE(Ant 1) + BT | N/A | Yes | Yes | Yes |
| 8 | LTE (Ant 2) + BT | N/A | Yes | Yes | Yes |
| 9 | GSM Voice(Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | N/A | Yes |
| 10 | GSM DATA(Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 11 | GSM Voice(Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | N/A | Yes |
| 12 | GSM DATA (Ant 2)+ BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 13 | WCDMA (Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 14 | WCDMA (Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 15 | LTE (Ant 1) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 16 | LTE (Ant 2) + BT+ Wi-Fi 2.4G ( Ant2) | N/A | Yes | Yes | Yes |
| 17 | GSM Voice(Ant 1) + BT+ Wi-Fi 5G | N/A | Yes | N/A | Yes |
| 18 | GSM DATA(Ant 1) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 19 | GSM Voice(Ant 2) + BT+ Wi-Fi 5G | N/A | Yes | N/A | Yes |
| 20 | GSM DATA (Ant 2)+ BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 21 | WCDMA (Ant 1) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 22 | WCDMA (Ant 2) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 23 | LTE (Ant 1) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 24 | LTE (Ant 2) + BT+ Wi-Fi 5G | N/A | Yes | Yes | Yes |

Note:
To sum up, compared above two Table, the simultaneous transmission possibilities A differences between Bluetooth at power level A and level power B are as below:

When WiFi 2.4G and 5G are both on at the same time, BT can only work at power B. BT High Power A will be limited by design.

- **Simultaneous Transmission Possibilities (BT off)**

| NO. | Simultaneous TX Combination | Head | Body-worn | Hotspot | Product Specific 10-g (0mm) |
|---|---|---|---|---|---|
| 1 | GSM Voice(Ant 1)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | N/A | Yes |
| 2 | GSM DATA(Ant 1)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 3 | GSM Voice(Ant 2)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | N/A | Yes |
| 4 | GSM DATA (Ant 2) + Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 5 | WCDMA (Ant 1)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 6 | WCDMA (Ant 2)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 7 | LTE (Ant 1)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 8 | LTE (Ant 2)+ Wi-Fi 2.4G ( Ant1) | N/A | Yes | Yes | Yes |
| 9 | GSM Voice(Ant 1) + Wi-Fi 5G | N/A | Yes | N/A | Yes |
| 10 | GSM DATA(Ant 1) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 11 | GSM Voice(Ant 2) + Wi-Fi 5G | N/A | Yes | N/A | Yes |
| 12 | GSM DATA (Ant 2) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 13 | WCDMA (Ant 1) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 14 | WCDMA (Ant 2) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 15 | LTE (Ant 1) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 16 | LTE (Ant 2) + Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 17 | GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | N/A | Yes |
| 18 | GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 19 | GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | N/A | Yes |
| 20 | GSM DATA (Ant 2) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 21 | WCDMA (Ant 1) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 22 | WCDMA (Ant 2) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 23 | LTE (Ant 1) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 24 | LTE (Ant 2) + Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 25 | Wi-Fi 2.4G (Ant1+Ant2) | N/A | Yes | Yes | Yes |
| 26 | GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | N/A | Yes |
| 27 | GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 28 | GSM Voice（(Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | N/A | Yes |
| 29 | GSM Voice (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | N/A | Yes | Yes | Yes |
| 30 | WCDMA (Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 31 | WCDMA (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 32 | LTE (Ant 1) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 33 | LTE (Ant 2) + Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | Yes | Yes |
| 34 | Wi-Fi 2.4G (Ant 2) +Wi-Fi 5G | Yes | Yes | N/A | Yes |

Note:
For Wi-Fi 5G, U-NII-2A(5250-5350 MHz) and U-NII-2C(5470-5725 MHz) bands does not support hotspot function.


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 8.4.2 Simultaneous Transmission SAR Summation Scenario

| Test position | | Main Antenna SARmax (W/kg) | | | | | | | | | | | | WiFi Antenna SARmax (W/kg) | | | | | Summed 1g SARmax (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GSM850 | GSM1900 | WCDMA Band II | WCDMA Band IV | WCDMA Band V | LTE Band 2 | LTE Band 4 | LTE Band 5 | LTE Band 7 | LTE Band 26 | LTE Band 38 | LTE Band 41 | WLAN 2.4G Core0 | WLAN 2.4G Core1 | WLAN 2.4G CDD/MIMO (2+3) | WLAN 5G | BT | |
| | | 1 | | | | | | | | | | | | 2 | 3 | 4 | 5 | 6 | Max1+Max(2,3,4,5,6) or 1+Max(3,5)+6 or 1+3+5 or 1+3+5+6 |
| Head | Left Touch | 0.057 | 0.109 | 0.109 | 0.220 | 0.077 | 0.186 | 0.211 | 0.060 | 0.432 | 0.050 | 0.264 | 0.246 | 0.187 | 0.312 | 0.499 | 0.249 | 0.160 | **1.153** |
| | Left Tilt | 0.029 | 0.045 | 0.048 | 0.083 | 0.046 | 0.085 | 0.084 | 0.042 | 0.245 | 0.058 | 0.137 | 0.129 | 0.253 | 0.136 | 0.389 | 0.259 | 0.182 | 0.822 |
| | Right Touch | 0.068 | 0.053 | 0.131 | 0.159 | 0.098 | 0.136 | 0.155 | 0.091 | 0.301 | 0.068 | 0.197 | 0.178 | 0.161 | 0.032 | 0.193 | 0.060 | 0.120 | 0.513 |
| | Right Tilt | 0.023 | 0.056 | 0.103 | 0.091 | 0.035 | 0.078 | 0.094 | 0.035 | 0.228 | 0.048 | 0.152 | 0.159 | 0.209 | 0.024 | 0.233 | 0.038 | 0.181 | 0.471 |
| Body-worn | Front | 0.203 | 0.111 | 0.136 | 0.179 | 0.294 | 0.225 | 0.187 | 0.262 | 0.162 | 0.182 | 0.147 | 0.144 | 0.021 | 0.096 | 0.117 | 0.081 | 0.108 | 0.579 |
| | Back | 0.248 | 0.161 | 0.201 | 0.213 | 0.355 | 0.274 | 0.213 | 0.313 | 0.252 | 0.224 | 0.177 | 0.185 | 0.086 | 0.122 | 0.208 | 0.123 | 0.135 | **0.735** |
| Hotspot | Front | 0.308 | 0.168 | 0.267 | 0.344 | 0.507 | 0.435 | 0.370 | 0.451 | 0.337 | 0.353 | 0.283 | 0.281 | 0.120 | 0.188 | 0.308 | 0.135 | 0.214 | 1.044 |
| | Back | 0.412 | 0.270 | 0.340 | 0.412 | 0.608 | 0.558 | 0.392 | 0.613 | 0.459 | 0.508 | 0.365 | 0.360 | 0.187 | 0.221 | 0.408 | 0.190 | 0.276 | 1.300 |
| | Left | 0.330 | 0.084 | 0.143 | 0.265 | 0.419 | 0.251 | 0.236 | 0.407 | 0.220 | 0.345 | 0.194 | 0.190 | / | / | / | 0.003 | 0.049 | 0.471 |
| | Right | 0.073 | 0.061 | 0.118 | 0.135 | 0.110 | 0.202 | 0.130 | 0.092 | 0.105 | 0.080 | 0.121 | 0.099 | 0.043 | 0.338 | 0.381 | 0.331 | 0.042 | 0.913 |
| | Top | / | / | / | / | / | / | / | / | / | / | / | / | 0.384 | 0.132 | 0.516 | 0.161 | 0.513 | 0.806 |
| | Bottom | 0.232 | 0.473 | **0.537** | 0.737 | 0.352 | 0.961 | 0.702 | 0.273 | 0.638 | 0.287 | 0.465 | 0.495 | / | / | / | / | / | **0.961** |

| Test position | | Main Antenna SARmax (W/kg) | | | | | | | | | | | | WiFi Antenna SARmax (W/kg) | | | | | Summed 10g SARmax (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GSM850 | GSM1900 | WCDMA Band II | WCDMA Band IV | WCDMA Band V | LTE Band 2 | LTE Band 4 | LTE Band 5 | LTE Band 7 | LTE Band 26 | LTE Band 38 | LTE Band 41 | WLAN 2.4G Core0 | WLAN 2.4G Core1 | WLAN 2.4G CDD/MIMO (2+3) | WLAN 5G | BT | |
| | | 1 | | | | | | | | | | | | 2 | 3 | 4 | 5 | 6 | Max1+Max(2,3,4,5,6) or 1+Max(3,5)+6 or 1+3+5 or 1+3+5+6 |
| Product specific 10g SAR | Front | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.566 | / | 0.566 |
| | Back | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.885 | / | 0.885 |
| | Left | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.020 | / | 0.020 |
| | Right | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | **1.292** | / | **1.292** |
| | Top | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.556 | / | 0.556 |
| | Bottom | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

| Test position | | Second Antenna SARmax (W/kg) | | | | | | | | | | | | WiFi Antenna SARmax (W/kg) | | | | | Summed 1g SARmax (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GSM850 | GSM1900 | WCDMA Band II | WCDMA Band IV | WCDMA Band V | LTE Band 2 | LTE Band 4 | LTE Band 5 | LTE Band 7 | LTE Band 26 | LTE Band 38 | LTE Band 41 | WLAN 2.4G Core0 | WLAN 2.4G Core1 | WLAN 2.4G CDD/MIMO (2+3) | WLAN 5G | BT | |
| | | 1 | | | | | | | | | | | | 2 | 3 | 4 | 5 | 6 | Max1+Max(2,3,4,5,6) or 1+Max(3,5)+6 or 1+3+5 or 1+3+5+6 |
| Head | Left Touch | 0.677 | 0.172 | 0.144 | 0.323 | 0.687 | 0.209 | 0.250 | 0.736 | 0.386 | 0.397 | 0.604 | 0.502 | 0.187 | 0.312 | 0.499 | 0.249 | 0.160 | **1.457** |
| | Left Tilt | 0.635 | 0.186 | 0.203 | 0.231 | 0.613 | 0.232 | 0.197 | 0.703 | 0.334 | 0.404 | 0.600 | 0.449 | 0.253 | 0.136 | 0.389 | 0.259 | 0.182 | 1.280 |
| | Right Touch | 0.723 | 0.580 | **0.799** | 0.790 | 0.759 | 0.681 | 0.741 | 0.920 | 0.521 | 0.498 | 0.799 | 0.694 | 0.161 | 0.032 | 0.193 | 0.060 | 0.120 | 1.132 |
| | Right Tilt | 0.700 | 0.606 | 0.784 | 0.677 | 0.687 | 0.676 | 0.561 | 0.760 | 0.415 | 0.434 | 0.612 | 0.596 | 0.209 | 0.024 | 0.233 | 0.038 | 0.181 | 1.027 |
| Body-worn | Front | 0.096 | 0.041 | 0.189 | 0.254 | 0.215 | 0.127 | 0.189 | 0.187 | 0.221 | 0.133 | 0.104 | 0.144 | 0.021 | 0.096 | 0.117 | 0.081 | 0.108 | 0.539 |
| | Back | 0.245 | 0.075 | 0.231 | 0.267 | 0.292 | 0.223 | 0.225 | 0.255 | 0.265 | 0.187 | 0.110 | 0.156 | 0.086 | 0.122 | 0.208 | 0.123 | 0.135 | **0.672** |
| Hotspot | Front | 0.480 | 0.086 | 0.354 | 0.366 | 0.459 | 0.281 | 0.329 | 0.404 | 0.347 | 0.272 | 0.228 | 0.283 | 0.120 | 0.188 | 0.308 | 0.135 | 0.214 | 1.017 |
| | Back | 0.546 | 0.138 | 0.485 | 0.456 | 0.614 | 0.468 | 0.397 | 0.488 | 0.448 | 0.381 | 0.327 | 0.392 | 0.187 | 0.221 | 0.408 | 0.190 | 0.276 | 1.301 |
| | Left | 0.550 | 0.133 | 0.520 | 0.621 | 0.535 | 0.404 | 0.592 | 0.487 | 0.236 | 0.339 | 0.112 | 0.128 | / | / | / | 0.003 | 0.049 | 0.673 |
| | Right | / | / | / | / | / | / | / | / | / | / | / | / | 0.043 | 0.338 | 0.381 | 0.331 | 0.042 | 0.711 |
| | Top | 0.467 | 0.144 | 0.447 | 0.387 | 0.502 | 0.373 | 0.348 | 0.419 | 0.175 | 0.309 | 0.118 | 0.087 | 0.384 | 0.132 | 0.516 | 0.161 | 0.513 | 1.308 |
| | Bottom | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

| Test position | | Second Antenna SARmax (W/kg) | | | | | | | | | | | | WiFi Antenna SARmax (W/kg) | | | | | Summed 10g SARmax (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GSM850 | GSM1900 | WCDMA Band II | WCDMA Band IV | WCDMA Band V | LTE Band 2 | LTE Band 4 | LTE Band 5 | LTE Band 7 | LTE Band 26 | LTE Band 38 | LTE Band 41 | WLAN 2.4G Core0 | WLAN 2.4G Core1 | WLAN 2.4G CDD/MIMO (2+3) | WLAN 5G | BT | |
| | | 1 | | | | | | | | | | | | 2 | 3 | 4 | 5 | 6 | Max1+Max(2,3,4,5,6) or 1+Max(3,5)+6 or 1+3+5 or 1+3+5+6 |
| Product specific 10g SAR | Front | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.566 | / | 0.566 |
| | Back | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.885 | / | 0.885 |
| | Left | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.020 | / | 0.020 |
| | Right | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | **1.292** | / | **1.292** |
| | Top | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 0.556 | / | 0.556 |
| | Bottom | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |



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# 9 Equipment list

| Test Platform | SPEAG DASY5 Professional |
|---|---|
| Description | SAR Test System (Frequency range 300MHz-6GHz) |
| Software Reference | DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331) |

**Hardware Reference**

| | Equipment | Manufacturer | Model | Serial Number | Calibration Date | Due date of calibration |
|---|---|---|---|---|---|---|
| ☒ | Twin Phantom | SPEAG | SAM 1 | 1283 | NCR | NCR |
| ☒ | Twin Phantom | SPEAG | SAM 2 | 1913 | NCR | NCR |
| ☒ | Twin Phantom | SPEAG | SAM 3 | 1912 | NCR | NCR |
| ☒ | Twin Phantom | SPEAG | SAM 4 | 1640 | NCR | NCR |
| ☒ | Twin Phantom | SPEAG | SAM 6 | 1824 | NCR | NCR |
| ☒ | ELI | SPEAG | ELI V5.0 | 1239 | NCR | NCR |
| ☒ | DAE | SPEAG | DAE4 | 896 | 2018-11-08 | 2019-11-07 |
| ☒ | DAE | SPEAG | DAE4 | 1374 | 2018-09-18 | 2019-09-17 |
| ☒ | DAE | SPEAG | DAE4 | 1428 | 2019-01-11 | 2020-01-10 |
| ☒ | E-Field Probe | SPEAG | EX3DV4 | 3923 | 2018-09-30 | 2019-09-29 |
| ☒ | E-Field Probe | SPEAG | EX3DV4 | 3793 | 2019-03-25 | 2020-03-24 |
| ☒ | E-Field Probe | SPEAG | EX3DV4 | 3962 | 2019-02-25 | 2020-02-24 |
| ☒ | Validation Kits | SPEAG | D835V2 | 4d105 | 2016-12-08 | 2019-12-07 |
| ☒ | Validation Kits | SPEAG | D1900V2 | 5d028 | 2016-12-07 | 2019-12-06 |
| ☒ | Validation Kits | SPEAG | D2450V2 | 733 | 2016-12-07 | 2019-12-06 |
| ☒ | Validation Kits | SPEAG | D2600V2 | 1125 | 2016-06-22 | 2019-06-21 |
| ☒ | Validation Kits | SPEAG | D5GHzV2 | 1165 | 2016-12-13 | 2019-12-12 |
| ☒ | Agilent Network Analyzer | Agilent | E5071C | MY46523590 | 2019-03-13 | 2020-03-12 |
| ☒ | Dielectric Probe Kit | Agilent | 85070E | US01440210 | NCR | NCR |
| ☒ | Universal Radio Communication Tester | R&S | CMU200 | 123090 | 2018-06-21 | 2019-06-20 |
| ☒ | Radio Communication Analyzer | Anritsu | MT8821C | 6201502984 | 2018-05-02 | 2019-05-01 |
| ☒ | RF Bi-Directional Coupler | Agilent | 86205-60001 | MY31400031 | NCR | NCR |
| ☒ | Signal Generator | Agilent | N5171B | MY53050736 | 2019-03-13 | 2020-03-12 |
| ☒ | Preamplifier | Mini-Circuits | ZHL-42W | 15542 | NCR | NCR |
| ☒ | Preamplifier | Compliance Directions Systems Inc. | AMP28-3W | 073501433 | NCR | NCR |
| ☒ | Power Meter | Agilent | E4416A | GB41292095 | 2019-03-13 | 2020-03-12 |
| ☒ | Power Sensor | Agilent | 8481H | MY41091234 | 2019-03-13 | 2020-03-12 |
| ☒ | Power Sensor | R&S | NRP-Z92 | 100025 | 2019-03-13 | 2020-03-12 |



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| | | | | | | |
|---|---|---|---|---|---|---|
| ☒ | Attenuator | SHX | TS2-3dB | 30704 | NCR | NCR |
| ☒ | Coaxial low pass filter | Mini-Circuits | VLF-2500(+) | NA | NCR | NCR |
| ☒ | Coaxial low pass filter | Microlab Fxr | LA-F13 | NA | NCR | NCR |
| ☒ | 50 Ω coaxial load | Mini-Circuits | KARN-50+ | 00850 | NCR | NCR |
| ☒ | DC POWER SUPPLY | SAKO | SK1730SL5A | NA | NCR | NCR |
| ☒ | Speed reading thermometer | MingGao | T809 | NA | 2019-03-18 | 2020-03-17 |
| ☒ | Humidity and Temperature Indicator | KIMTOKA | KIMTOKA | NA | 2019-03-18 | 2020-03-17 |

Note: All the equipments are within the valid period when the tests are performed.

# 10 Calibration certificate

Please see the Appendix C

# 11 Photographs

Please see the Appendix D

# Appendix A: Detailed System Check Results

# Appendix B: Detailed Test Results

# Appendix C: Calibration certificate

# Appendix D: Photographs

# Appendix E: Antenna Locations

**---END---**