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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.32 | 22±1 |
| | | | | 1 | 2 | 0 | 22.63 | 22±1 |
| | | | | 1 | 5 | 0 | 22.65 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 22.35 | 22±1 |
| | | | | 3 | 1 | 0 | 22.62 | 22±1 |
| | | | | 3 | 2 | 0 | 22.53 | 22±1 |
| | 19957 | 1710.7 | | 6 | 0 | 1 | 21.56 | 22±1 |
| | 19957 | 1/10./ | | 1 | 0 | 1 | 22.15 | 22±1 |
| | | | | 1 | 2 | 1 | 22.14 | 22±1 |
| | | | | 1 | 5 | 1 | 22.19 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.89 | 22±1 |
| | | | | 3 | 1 | 1 | 21.86 | 22±1 |
| | | | | 3 | 2 | 1 | 21.94 | 22±1 |
| | | | | 6 | 0 | 2 | 21.55 | 22±1 |
| | | | | 1 | 0 | 0 | 23.17 | 23±1 |
| | | | | 1 | 2 | 0 | 23.27 | 23±1 |
| | | | | 1 | 5 | 0 | 23.22 | 23±1 |
| | 20175 | 1732.5 | QPSK | 3 | 0 | 0 | 22.98 | 23±1 |
| | | | | 3 | 1 | 0 | 22.76 | 23±1 |
| | | | | 3 | 2 | 0 | 22.83 | 23±1 |
| | | | | 6 | 0 | 1 | 22.17 | 23±1 |
| 1.4MHz | | | | 1 | 0 | 1 | 22.27 | 22±1 |
| | | | | 1 | 2 | 1 | 22.28 | 22±1 |
| | | | | 1 | 5 | 1 | 22.37 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.85 | 22±1 |
| | | | 100, | 3 | 1 | 1 | 21.74 | 22±1 |
| | | | | 3 | 2 | 1 | 21.79 | 22±1 |
| | | | | 6 | 0 | 2 | 21.27 | 22±1 |
| | | | | 1 | 0 | 0 | 22.13 | 22±1 |
| | | | | 1 | 2 | 0 | 22.31 | 22±1 |
| | | | | 1 | 5 | 0 | 22.27 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 22.24 | 22±1 |
| | | | - | 3 | 1 | 0 | 22.19 | 22±1 |
| | | | | 3 | 2 | 0 | 22.23 | 22±1 |
| | | 4== | | 6 | 0 | 1 | 21.65 | 22±1 |
| | 20393 | 1754.3 | | 1 | 0 | 1 | 21.69 | 21±1 |
| | | | | 1 | 2 | 1 | 21.65 | 21±1 |
| | | | | 1 | 5 | 1 | 21.72 | 21±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.67 | 21±1 |
| | | | | 3 | 1 | 1 | 21.61 | 21±1 |
| | | | | 3 | 2 | 1 | 21.79 | 21±1 |
| | | | | 6 | 0 | 2 | 20.92 | 21±1 |



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LTE Band 5:

| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power | Tune up Power |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------|------------------|
| , | | , | | | | - | (dBm) | tolerant |
| | | | | 1 | 0 | 0 | 22.35 | 22±1 |
| | | | | 1 | 12 | 0 | 22.34 | 22±1 |
| | | | | 1 | 24 | 0 | 22.38 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.79 | 22±1 |
| | | | | 12 | 6 | 1 | 21.75 | 22±1 |
| | | | | 12 | 11 | 1 | 21.74 | 22±1 |
| | 20450 | 829 | | 25 | 0 | 1 | 21.39 | 22±1 |
| | | | | 1 | 0 | 1 | 22.81 | 22±1 |
| | | | | 1 | 12 | 1 | 22.78 | 22±1 |
| | | | | 1 | 24 | 1 | 22.88 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 23.83 | 22±1 |
| | | | | 12 | 6 | 2 | 21.87 | 22±1 |
| | | | | 12 | 11 | 2 | 21.84 | 22±1 |
| | | | | 25 | 0 | 2 | 21.38 | 22±1 |
| | | | | 1 | 0 | 0 | 22.47 | 22±1 |
| | | | | 1 | 12 | 0 | 22.45 | 22±1 |
| | | | QPSK | 1 | 24 | 0 | 22.48 | 22±1 |
| | | | | 12 | 0 | 1 | 21.41 | 22±1 |
| | | | | 12 | 6 | 1 | 21.46 | 22±1 |
| | | 836.5 | | 12 | 11 | 1 | 21.43 | 22±1 |
| 10MHz | 20525 | | | 25 | 0 | 1 | 21.31 | 22±1 |
| 10111112 | 20323 | | | 1 | 0 | 1 | 22.82 | 22±1 |
| | | | | 1 | 12 | 1 | 22.84 | 22±1 |
| | | | | 1 | 24 | 1 | 22.87 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.92 | 22±1 |
| | | | | 12 | 6 | 2 | 21.98 | 22±1 |
| | | | | 12 | 11 | 2 | 21.96 | 22±1 |
| | | | | 25 | 0 | 2 | 21.39 | 22±1 |
| | | | | 1 | 0 | 0 | 22.35 | 22±1 |
| | | | | 1 | 12 | 0 | 22.33 | 22±1 |
| | | | | 1 | 24 | 0 | 22.38 | 22 ± 1 |
| | | | QPSK | 12 | 0 | 1 | 21.34 | 22 ± 1 |
| | | | | 12 | 6 | 1 | 21.36 | 22±1 |
| | | | | 12 | 11 | 1 | 21.32 | 22±1 |
| | 20600 | 844 | | 25 | 0 | 1 | 21.23 | 22±1 |
| | 20000 | 044 | | 1 | 0 | 1 | 21.31 | 21±1 |
| | | | | 1 | 12 | 1 | 21.36 | 21±1 |
| | | | | 1 | 24 | 1 | 21.38 | 21±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.86 | 21±1 |
| | | | | 12 | 6 | 2 | 21.84 | 21±1 |
| | | | | 12 | 11 | 2 | 21.82 | 21±1 |
| | | | | 25 | 0 | 2 | 21.34 | 21±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 23.15 | 23±1 |
| | | | | 1 | 24 | 0 | 23.24 | 23±1 |
| | | | | 1 | 49 | 0 | 23.17 | 23±1 |
| | | | QPSK | 25 | 0 | 1 | 22.25 | 23 ± 1 |
| | | | | 25 | 12 | 1 | 22.26 | 23 ± 1 |
| | | | | 25 | 24 | 1 | 22.31 | 23±1 |
| | 20425 | 826.5 | | 50 | 0 | 1 | 22.11 | 23 ± 1 |
| | 20423 | 820.3 | | 1 | 0 | 1 | 22.94 | 22±1 |
| | | | | 1 | 24 | 1 | 22.85 | 22±1 |
| | | | | 1 | 49 | 1 | 22.87 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.14 | 22±1 |
| | | | | 25 | 12 | 2 | 21.13 | 22±1 |
| | | | | 25 | 24 | 2 | 21.17 | 22±1 |
| | | | | 50 | 0 | 2 | 21.01 | 22±1 |
| | | | | 1 | 0 | 0 | 23.12 | 23±1 |
| | | | | 1 | 24 | 0 | 23.17 | 23±1 |
| | | | | 1 | 49 | 0 | 23.21 | 23±1 |
| | | | QPSK | 25 | 0 | 1 | 22.74 | 23±1 |
| | | | | 25 | 12 | 1 | 22.55 | 23±1 |
| | | | | 25 | 24 | 1 | 22.63 | 23±1 |
| | | 836.5 | | 50 | 0 | 1 | 22.19 | 23±1 |
| 5MHz | 20525 | | | 1 | 0 | 1 | 22.47 | 22±1 |
| | | | | 1 | 24 | 1 | 22.45 | 22±1 |
| | | | | 1 | 49 | 1 | 22.48 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.46 | 22±1 |
| | | | 200, | 25 | 12 | 2 | 21.58 | 22±1 |
| | | | | 25 | 24 | 2 | 21.53 | 22±1 |
| | | | | 50 | 0 | 2 | 21.29 | 22±1 |
| | | | | 1 | 0 | 0 | 23.83 | 23±1 |
| | | | | 1 | 24 | 0 | 23.51 | 23±1 |
| | | | | 1 | 49 | 0 | 23.47 | 23±1 |
| | | | QPSK | 25 | 0 | 1 | 22.65 | 23±1 |
| | | | | 25 | 12 | 1 | 22.84 | 23±1 |
| | | | | 25 | 24 | 1 | 22.97 | 23±1 |
| | | | | 50 | 0 | 1 | 22.48 | 23±1 |
| | 20625 | 846.5 | | 1 | 0 | 1 | 22.97 | 22±1 |
| | | | | 1 | 24 | 1 | 22.57 | 22±1 |
| | | | | 1 | 49 | 1 | 22.65 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.78 | 22±1 |
| | | | | 25 | 12 | 2 | 21.89 | 22±1 |
| | | | | 25 | 24 | 2 | 21.79 | 22±1 |
| | | | | 50 | 0 | 2 | 21.57 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.25 | 22±1 |
| | | | | 1 | 7 | 0 | 22.24 | 22±1 |
| | | | | 1 | 14 | 0 | 22.29 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.42 | 22±1 |
| | | | | 8 | 4 | 1 | 22.48 | 22±1 |
| | | | | 8 | 7 | 1 | 22.51 | 22±1 |
| | 20415 | 825.5 | | 15 | 0 | 1 | 21.78 | 22±1 |
| | 20413 | 823.3 | | 1 | 0 | 1 | 22.83 | 22±1 |
| | | | | 1 | 7 | 1 | 22.78 | 22±1 |
| | | | | 1 | 14 | 1 | 22.86 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 21.73 | 22±1 |
| | | | | 8 | 4 | 2 | 21.74 | 22±1 |
| | | | | 8 | 7 | 2 | 21.78 | 22±1 |
| | | | | 15 | 0 | 2 | 21.44 | 22±1 |
| | | | | 1 | 0 | 0 | 22.37 | 22±1 |
| | | | | 1 | 7 | 0 | 22.35 | 22±1 |
| | | | | 1 | 14 | 0 | 22.38 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.45 | 22±1 |
| | | | | 8 | 4 | 1 | 22.48 | 22±1 |
| | | | | 8 | 7 | 1 | 22.41 | 22±1 |
| 20.411 | 20525 | 0065 | | 15 | 0 | 1 | 21.88 | 22±1 |
| 3MHz | 20525 | 836.5 | | 1 | 0 | 1 | 22.32 | 22±1 |
| | | | | 1 | 7 | 1 | 22.34 | 22±1 |
| | | | | 1 | 14 | 1 | 22.35 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 22.23 | 22±1 |
| | | | | 8 | 4 | 2 | 22.21 | 22±1 |
| | | | | 8 | 7 | 2 | 22.19 | 22±1 |
| | | | | 15 | 0 | 2 | 22.06 | 22±1 |
| | | | | 1 | 0 | 0 | 22.36 | 22±1 |
| | | | | 1 | 7 | 0 | 22.34 | 22±1 |
| | | | | 1 | 14 | 0 | 22.31 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.21 | 22±1 |
| | | | | 8 | 4 | 1 | 22.19 | 22±1 |
| | | | | 8 | 7 | 1 | 22.18 | 22±1 |
| | 2062- | 04 | | 15 | 0 | 1 | 21.87 | 22±1 |
| | 20635 | 847.5 | | 1 | 0 | 1 | 22.53 | 22±1 |
| | | | | 1 | 7 | 1 | 22.55 | 22±1 |
| | | | | 1 | 14 | 1 | 22.56 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 21.86 | 22±1 |
| | | | | 8 | 4 | 2 | 21.89 | 22±1 |
| | | | | 8 | 7 | 2 | 21.82 | 22±1 |
| | | | | 15 | 0 | 2 | 21.29 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.47 | 22±1 |
| | | | | 1 | 2 | 0 | 22.42 | 22±1 |
| | | | | 1 | 5 | 0 | 22.23 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 22.45 | 22±1 |
| | | | | 3 | 1 | 0 | 22.46 | 22±1 |
| | | | | 3 | 2 | 0 | 22.41 | 22±1 |
| | 20407 | 824.7 | | 6 | 0 | 1 | 21.65 | 22±1 |
| | 20407 | 024.7 | | 1 | 0 | 1 | 22.31 | 22±1 |
| | | | | 1 | 2 | 1 | 22.35 | 22±1 |
| | | | | 1 | 5 | 1 | 22.37 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.86 | 22±1 |
| | | | | 3 | 1 | 1 | 21.85 | 22±1 |
| | | | | 3 | 2 | 1 | 21.89 | 22±1 |
| | | | | 6 | 0 | 2 | 21.27 | 22±1 |
| | | | | 1 | 0 | 0 | 22.34 | 22±1 |
| | | | | 1 | 2 | 0 | 22.36 | 22±1 |
| | | | | 1 | 5 | 0 | 22.33 | 22±1 |
| | 20525 | | QPSK | 3 | 0 | 0 | 22.51 | 22±1 |
| | | 836.5 | | 3 | 1 | 0 | 22.56 | 22±1 |
| | | | | 3 | 2 | 0 | 22.54 | 22±1 |
| 4 45 411 | | | | 6 | 0 | 1 | 21.55 | 22±1 |
| 1.4MHz | 20525 | | | 1 | 0 | 1 | 21.79 | 22±1 |
| | | | | 1 | 2 | 1 | 21.75 | 22±1 |
| | | | | 1 | 5 | 1 | 21.69 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.65 | 22±1 |
| | | | | 3 | 1 | 1 | 21.68 | 22±1 |
| | | | | 3 | 2 | 1 | 21.62 | 22±1 |
| | | | | 6 | 0 | 2 | 21.26. | 22±1 |
| | | | | 1 | 0 | 0 | 22.23 | 22±1 |
| | | | | 1 | 2 | 0 | 22.21 | 22±1 |
| | | | | 1 | 5 | 0 | 22.25 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 22.38 | 22±1 |
| | | | | 3 | 1 | 0 | 22.24 | 22±1 |
| | | | | 3 | 2 | 0 | 22.25 | 22±1 |
| | 205:- | | | 6 | 0 | 1 | 21.89 | 22±1 |
| | 20643 | 848.3 | | 1 | 0 | 1 | 22.12 | 22±1 |
| | | | | 1 | 2 | 1 | 22.15 | 22±1 |
| | | | | 1 | 5 | 1 | 22.17 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.64 | 22±1 |
| | | | | 3 | 1 | 1 | 21.65 | 22±1 |
| | | | | 3 | 2 | 1 | 21.68 | 22±1 |
| | | | | 6 | 0 | 2 | 21.22 | 22±1 |



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LTE Band 7:

| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.04 | 22±1 |
| | | | | 1 | 49 | 0 | 22.06 | 22±1 |
| | | | | 1 | 99 | 0 | 22.09 | 22±1 |
| | | | QPSK | 50 | 0 | 1 | 22.22 | 22±1 |
| | | | | 50 | 24 | 1 | 22.23 | 22±1 |
| | | | | 50 | 49 | 1 | 22.28 | 22±1 |
| | 20050 | 2510 | | 100 | 0 | 1 | 21.56 | 22±1 |
| | 20850 | 2510 | | 1 | 0 | 1 | 22.61 | 22±1 |
| | | | | 1 | 49 | 1 | 22.63 | 22±1 |
| | | | | 1 | 99 | 1 | 22.68 | 22±1 |
| | | | 16QAM | 50 | 0 | 2 | 21.68 | 22±1 |
| | | | | 50 | 24 | 2 | 21.66 | 22±1 |
| | | | | 50 | 49 | 2 | 21.61 | 22±1 |
| | | | | 100 | 0 | 2 | 21.34 | 22±1 |
| | | | | 1 | 0 | 0 | 22.13 | 22±1 |
| | | | | 1 | 49 | 0 | 22.12 | 22±1 |
| | | | | 1 | 99 | 0 | 22.15 | 22±1 |
| | | 2535 | QPSK | 50 | 0 | 1 | 21.85 | 22±1 |
| | | | | 50 | 24 | 1 | 21.84 | 22 ± 1 |
| | | | | 50 | 49 | 1 | 21.89 | 22±1 |
| 20MHz | 21100 | | | 100 | 0 | 1 | 21.24 | 22±1 |
| ZUIVITIZ | 21100 | | | 1 | 0 | 1 | 22.54 | 22±1 |
| | | | | 1 | 49 | 1 | 22.52 | 22 ± 1 |
| | | | | 1 | 99 | 1 | 22.59 | 22 ± 1 |
| | | | 16QAM | 50 | 0 | 2 | 22.45 | 22±1 |
| | | | | 50 | 24 | 2 | 22.46 | 22±1 |
| | | | | 50 | 49 | 2 | 22.41 | 22±1 |
| | | | | 100 | 0 | 2 | 21.07 | 22 ± 1 |
| | | | | 1 | 0 | 0 | 22.44 | 22±1 |
| | | | | 1 | 49 | 0 | 22.45 | 22±1 |
| | | | | 1 | 99 | 0 | 22.49 | 22±1 |
| | | | QPSK | 50 | 0 | 1 | 22.23 | 22±1 |
| | | | | 50 | 24 | 1 | 22.25 | 22±1 |
| | | | | 50 | 49 | 1 | 22.21 | 22±1 |
| | 21350 | 2560 | | 100 | 0 | 1 | 21.78 | 22±1 |
| | 21330 | 2300 | | 1 | 0 | 1 | 21.86 | 21±1 |
| | | | | 1 | 49 | 1 | 21.84 | 21±1 |
| | | | | 1 | 99 | 1 | 21.81 | 21±1 |
| | | | 16QAM | 50 | 0 | 2 | 20.98 | 21±1 |
| | | | | 50 | 24 | 2 | 20.97 | 21±1 |
| | | | | 50 | 49 | 2 | 20.96 | 21±1 |
| | | | | 100 | 0 | 2 | 20.65 | 21±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.31 | 22±1 |
| | | | | 1 | 37 | 0 | 22.33 | 22±1 |
| | | | | 1 | 74 | 0 | 22.38 | 22±1 |
| | | | QPSK | 36 | 0 | 1 | 22.85 | 22±1 |
| | | | | 36 | 16 | 1 | 22.87 | 22±1 |
| | | | | 36 | 35 | 1 | 22.86 | 22±1 |
| | 20825 | 1717.5 | | 75 | 0 | 1 | 21.77 | 22±1 |
| | 20023 | 1/1/.3 | | 1 | 0 | 1 | 22.12 | 22±1 |
| | | | | 1 | 37 | 1 | 22.15 | 22±1 |
| | | | | 1 | 74 | 1 | 22.09 | 22±1 |
| | | | 16QAM | 36 | 0 | 2 | 21.88 | 22±1 |
| | | | | 36 | 16 | 2 | 21.84 | 22±1 |
| | | | | 36 | 35 | 2 | 21.85 | 22±1 |
| | | | | 75 | 0 | 2 | 21.22 | 22±1 |
| | | | | 1 | 0 | 0 | 22.62 | 22±1 |
| | | | | 1 | 37 | 0 | 22.65 | 22±1 |
| | | 1732.5 | QPSK | 1 | 74 | 0 | 22.64 | 22±1 |
| | | | | 36 | 0 | 1 | 21.92 | 22±1 |
| | | | | 36 | 16 | 1 | 21.88 | 22±1 |
| | | | | 36 | 35 | 1 | 21.85 | 22±1 |
| 4=444 | | | | 75 | 0 | 1 | 21.34 | 22±1 |
| 15MHz | 21100 | | 5 | 1 | 0 | 1 | 22.61 | 22±1 |
| | | | | 1 | 37 | 1 | 22.62 | 22±1 |
| | | | | 1 | 74 | 1 | 22.65 | 22±1 |
| | | | 16QAM | 36 | 0 | 2 | 21.66 | 22±1 |
| | | | | 36 | 16 | 2 | 21.65 | 22±1 |
| | | | | 36 | 35 | 2 | 21.69 | 22±1 |
| | | | | 75 | 0 | 2 | 21.99 | 22±1 |
| | | | | 1 | 0 | 0 | 22.37 | 22±1 |
| | | | | 1 | 37 | 0 | 22.34 | 22±1 |
| | | | | 1 | 74 | 0 | 22.35 | 22±1 |
| | | | QPSK | 36 | 0 | 1 | 21.95 | 22±1 |
| | | | | 36 | 16 | 1 | 21.92 | 22±1 |
| | | | | 36 | 35 | 1 | 21.93 | 22±1 |
| | | 4 | | 75 | 0 | 1 | 21.22 | 22±1 |
| | 21375 | 1747.5 | | 1 | 0 | 1 | 22.51 | 21±1 |
| | | | | 1 | 37 | 1 | 22.55 | 21±1 |
| | | | | 1 | 74 | 1 | 22.52 | 21±1 |
| | | | 16QAM | 36 | 0 | 2 | 21.83 | 21±1 |
| | | | | 36 | 16 | 2 | 21.85 | 21±1 |
| | | | | 36 | 35 | 2 | 21.89 | 21±1 |
| | | | | 75 | 0 | 2 | 20.78 | 21±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.45 | 22±1 |
| | | | | 1 | 24 | 0 | 22.46 | 22±1 |
| | | | | 1 | 49 | 0 | 22.41 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 22.12 | 22±1 |
| | | | | 25 | 12 | 1 | 22.15 | 22±1 |
| | | | | 25 | 24 | 1 | 22.14 | 22±1 |
| | 20000 | 2502 | | 50 | 0 | 1 | 21.52 | 22±1 |
| | 20800 | 2502 | | 1 | 0 | 1 | 22.84 | 22±1 |
| | | | | 1 | 24 | 1 | 22.85 | 22±1 |
| | | | | 1 | 49 | 1 | 22.87 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.86 | 22±1 |
| | | | | 25 | 12 | 2 | 21.85 | 22±1 |
| | | | | 25 | 24 | 2 | 21.81 | 22±1 |
| | | | | 50 | 0 | 2 | 21.23 | 22±1 |
| | | | | 1 | 0 | 0 | 22.16 | 22±1 |
| | | | | 1 | 24 | 0 | 22.15 | 22±1 |
| | | | | 1 | 49 | 0 | 22.13 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 21.89 | 22±1 |
| | | 2535 | | 25 | 12 | 1 | 21.85 | 22±1 |
| | | | | 25 | 24 | 1 | 21.85 | 22±1 |
| 40141 | 24400 | | | 50 | 0 | 1 | 21.52 | 22±1 |
| 10MHz | 21100 | | | 1 | 0 | 1 | 21.64 | 21±1 |
| | | | | 1 | 24 | 1 | 21.62 | 21±1 |
| | | | | 1 | 49 | 1 | 21.69 | 21±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.02 | 21±1 |
| | | | | 25 | 12 | 2 | 21.03 | 21±1 |
| | | | | 25 | 24 | 2 | 20.99 | 21±1 |
| | | | | 50 | 0 | 2 | 20.65 | 21±1 |
| | | | | 1 | 0 | 0 | 22.27 | 22±1 |
| | | | | 1 | 24 | 0 | 22.26 | 22±1 |
| | | | | 1 | 49 | 0 | 22.21 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 21.85 | 22±1 |
| | | | | 25 | 12 | 1 | 21.84 | 22±1 |
| | | | | 25 | 24 | 1 | 21.87 | 22±1 |
| | | | | 50 | 0 | 1 | 21.02 | 22±1 |
| | 21400 | 2565 | | 1 | 0 | 1 | 21.71 | 21±1 |
| | | | | 1 | 24 | 1 | 21.72 | 21±1 |
| | | | | 1 | 49 | 1 | 21.82 | 21±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.32 | 21±1 |
| | | | | 25 | 12 | 2 | 21.34 | 21±1 |
| | | | | 25 | 24 | 2 | 21.37 | 21±1 |
| | | | | 50 | 0 | 2 | 20.86 | 21±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 21.82 | 21±1 |
| | | | | 1 | 12 | 0 | 21.83 | 21±1 |
| | | | | 1 | 24 | 0 | 21.88 | 21±1 |
| | | | QPSK | 12 | 0 | 1 | 21.56 | 21±1 |
| | | | | 12 | 6 | 1 | 21.55 | 21±1 |
| | | | | 12 | 11 | 1 | 21.51 | 21±1 |
| | 19975 | 1712.5 | | 25 | 0 | 1 | 21.05 | 21±1 |
| | 199/5 | 1/12.5 | | 1 | 0 | 1 | 22.12 | 22±1 |
| | | | | 1 | 12 | 1 | 22.13 | 22±1 |
| | | | | 1 | 24 | 1 | 22.15 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.85 | 22±1 |
| | | | | 12 | 6 | 2 | 21.87 | 22±1 |
| | | | | 12 | 11 | 2 | 21.81 | 22±1 |
| | | | | 25 | 0 | 2 | 21.64 | 22±1 |
| | | | | 1 | 0 | 0 | 22.54 | 22±1 |
| | | | | 1 | 12 | 0 | 22.52 | 22±1 |
| | | 1732.5 | QPSK | 1 | 24 | 0 | 22.56 | 22±1 |
| | | | | 12 | 0 | 1 | 22.87 | 22±1 |
| | | | | 12 | 6 | 1 | 22.84 | 22±1 |
| | | | | 12 | 11 | 1 | 22.85 | 22±1 |
| | | | | 25 | 0 | 1 | 21.23 | 22±1 |
| 5MHz | 20175 | | | 1 | 0 | 1 | 22.56 | 22±1 |
| | | | | 1 | 12 | 1 | 22.57 | 22±1 |
| | | | | 1 | 24 | 1 | 22.52 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.67 | 22±1 |
| | | | | 12 | 6 | 2 | 21.65 | 22±1 |
| | | | | 12 | 11 | 2 | 21.61 | 22±1 |
| | | | | 25 | 0 | 2 | 21.19 | 22±1 |
| | | | | 1 | 0 | 0 | 22.85 | 22±1 |
| | | | | 1 | 12 | 0 | 22.84 | 22±1 |
| | | | | 1 | 24 | 0 | 22.89 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.87 | 22±1 |
| | | | | 12 | 6 | 1 | 21.88 | 22±1 |
| | | | | 12 | 11 | 1 | 21.82 | 22±1 |
| | | | | 25 | 0 | 1 | 21.35 | 22±1 |
| | 20375 | 1752.5 | | 1 | 0 | 1 | 21.82 | 21±1 |
| | | | | 1 | 12 | 1 | 21.84 | 21±1 |
| | | | | 1 | 24 | 1 | 21.88 | 21±1 |
| | | | 16QAM | 12 | 0 | 2 | 20.89 | 21±1 |
| | | | | 12 | 6 | 2 | 20.85 | 21±1 |
| | | | | 12 | 11 | 2 | 20.78 | 21±1 21±1 |
| | | | | 25 | 0 | 2 | 20.61 | 21±1 |



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LTE Band 12:

| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.21 | 22±1 |
| | | | | 1 | 24 | 0 | 22.23 | 22±1 |
| | | | | 1 | 49 | 0 | 22.29 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 21.78 | 22±1 |
| | | | | 25 | 12 | 1 | 21.75 | 22±1 |
| | | | | 25 | 24 | 1 | 21.74 | 22±1 |
| | 23060 | 704 | | 50 | 0 | 1 | 21.06 | 22±1 |
| | 23000 | 704 | | 1 | 0 | 1 | 22.66 | 22±1 |
| | | | | 1 | 24 | 1 | 22.65 | 22±1 |
| | | | | 1 | 49 | 1 | 22.63 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.71 | 22±1 |
| | | | | 25 | 12 | 2 | 21.75 | 22±1 |
| | | | | 25 | 24 | 2 | 21.72 | 22±1 |
| | | | | 50 | 0 | 2 | 21.03 | 22±1 |
| | | | | 1 | 0 | 0 | 22.35 | 22±1 |
| | | | | 1 | 24 | 0 | 22.31 | 22±1 |
| | | | | 1 | 49 | 0 | 22.32 | 22±1 |
| | | 707.5 | QPSK | 25 | 0 | 1 | 22.25 | 22±1 |
| | | | | 25 | 12 | 1 | 22.21 | 22±1 |
| | | | | 25 | 24 | 1 | 22.23 | 22±1 |
| 400411 | 22225 | | | 50 | 0 | 1 | 21.23 | 22±1 |
| 10MHz | 23095 | | 16QAM | 1 | 0 | 1 | 22.52 | 22±1 |
| | | | | 1 | 24 | 1 | 22.54 | 22±1 |
| | | | | 1 | 49 | 1 | 22.57 | 22±1 |
| | | | | 25 | 0 | 2 | 21.83 | 22±1 |
| | | | | 25 | 12 | 2 | 21.84 | 22±1 |
| | | | | 25 | 24 | 2 | 21.89 | 22±1 |
| | | | | 50 | 0 | 2 | 21.21 | 22±1 |
| | | | | 1 | 0 | 0 | 22.16 | 22±1 |
| | | | | 1 | 24 | 0 | 22.14 | 22±1 |
| | | | | 1 | 49 | 0 | 22.19 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 21.89 | 22±1 |
| | | | | 25 | 12 | 1 | 21.88 | 22±1 |
| | | | | 25 | 24 | 1 | 21.82 | 22±1 |
| | 22422 | 7 | | 50 | 0 | 1 | 21.46 | 22±1 |
| | 23130 | 711 | | 1 | 0 | 1 | 22.63 | 22±1 |
| | | | | 1 | 24 | 1 | 22.65 | 22±1 |
| | | | | 1 | 49 | 1 | 22.61 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.46 | 22±1 |
| | | | | 25 | 12 | 2 | 21.48 | 22±1 |
| | | | | 25 | 24 | 2 | 21.41 | 22±1 |
| | | | | 50 | 0 | 2 | 21.06 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.42 | 22±1 |
| | | | | 1 | 12 | 0 | 22.41 | 22±1 |
| | | | | 1 | 24 | 0 | 22.46 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.78 | 22±1 |
| | | | | 12 | 6 | 1 | 21.77 | 22±1 |
| | | | | 12 | 11 | 1 | 21.69 | 22±1 |
| | 23035 | 701.5 | | 25 | 0 | 1 | 21.26. | 22±1 |
| | 23035 | 701.5 | | 1 | 0 | 1 | 22.34 | 22±1 |
| | | | | 1 | 12 | 1 | 22.35 | 22±1 |
| | | | | 1 | 24 | 1 | 22.38 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 22.03 | 22±1 |
| | | | | 12 | 6 | 2 | 22.08 | 22±1 |
| | | | | 12 | 11 | 2 | 22.01 | 22±1 |
| | | | | 25 | 0 | 2 | 21.76 | 22±1 |
| | | | | 1 | 0 | 0 | 22.68 | 22±1 |
| | | | QPSK | 1 | 12 | 0 | 22.65 | 22±1 |
| | | | | 1 | 24 | 0 | 22.61 | 22±1 |
| | | | | 12 | 0 | 1 | 21.98 | 22±1 |
| | | | | 12 | 6 | 1 | 21.95 | 22±1 |
| | | 5 707.5 | | 12 | 11 | 1 | 21.96 | 22±1 |
| | | | | 25 | 0 | 1 | 21.55 | 22±1 |
| 5MHz | 23095 | | 16QAM | 1 | 0 | 1 | 22.62 | 22±1 |
| | | | | 1 | 12 | 1 | 22.65 | 22±1 |
| | | | | 1 | 24 | 1 | 22.64 | 22±1 |
| | | | | 12 | 0 | 2 | 21.86 | 22±1 |
| | | | | 12 | 6 | 2 | 21.87 | 22±1 |
| | | | | 12 | 11 | 2 | 21.92 | 22±1 |
| | | | | 25 | 0 | 2 | 21.42 | 22±1 |
| | | | | 1 | 0 | 0 | 22.12 | 22±1 |
| | | | | 1 | 12 | 0 | 22.13 | 22±1 |
| | | | | 1 | 24 | 0 | 22.18 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.89 | 22±1 |
| | | | | 12 | 6 | 1 | 21.87 | 22±1 |
| | | | | 12 | 11 | 1 | 21.82 | 22±1 |
| | | | | 25 | 0 | 1 | 21.33 | 22±1 |
| | 23155 | 713.5 | | 1 | 0 | 1 | 22.51 | 22±1 |
| | | | | 1 | 12 | 1 | 22.52 | 22±1 |
| | | | | 1 | 24 | 1 | 22.54 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.79 | 22±1 |
| | | | | 12 | 6 | 2 | 21.75 | 22±1 |
| | | | | 12 | 11 | 2 | 21.76 | 22±1 |
| | | | | 25 | 0 | 2 | 21.24 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.28 | 22±1 |
| | | | | 1 | 7 | 0 | 22.29 | 22±1 |
| | | | | 1 | 14 | 0 | 22.22 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.53 | 22±1 |
| | | | | 8 | 4 | 1 | 22.52 | 22±1 |
| | | | | 8 | 7 | 1 | 22.57 | 22±1 |
| | 23025 | 700.5 | | 15 | 0 | 1 | 21.36 | 22±1 |
| | 23025 | 700.5 | | 1 | 0 | 1 | 22.59 | 22±1 |
| | | | | 1 | 7 | 1 | 22.54 | 22±1 |
| | | | | 1 | 14 | 1 | 22.56 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 21.61 | 22±1 |
| | | | | 8 | 4 | 2 | 21.65 | 22±1 |
| | | | | 8 | 7 | 2 | 21.62 | 22±1 |
| | | | | 15 | 0 | 2 | 21.08 | 22±1 |
| | | | | 1 | 0 | 0 | 22.63 | 22±1 |
| | | | | 1 | 7 | 0 | 22.62 | 22±1 |
| | | | | 1 | 14 | 0 | 22.67 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.37 | 22±1 |
| | | | | 8 | 4 | 1 | 22.34 | 22±1 |
| | | 5 707.5 | | 8 | 7 | 1 | 22.32 | 22±1 |
| | | | | 15 | 0 | 1 | 21.55 | 22±1 |
| 3MHz | 23095 | | | 1 | 0 | 1 | 22.44 | 22±1 |
| | | | | 1 | 7 | 1 | 22.47 | 22±1 |
| | | | | 1 | 14 | 1 | 22.42 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 21.53 | 22±1 |
| | | | | 8 | 4 | 2 | 21.52 | 22±1 |
| | | | | 8 | 7 | 2 | 21.58 | 22±1 |
| | | | | 15 | 0 | 2 | 21.07 | 22±1 |
| | | | | 1 | 0 | 0 | 22.51 | 22±1 |
| | | | | 1 | 7 | 0 | 22.52 | 22±1 |
| | | | | 1 | 14 | 0 | 22.56 | 22±1 |
| | | | QPSK | 8 | 0 | 1 | 22.23 | 22±1 |
| | | | | 8 | 4 | 1 | 22.21 | 22±1 |
| | | | | 8 | 7 | 1 | 22.27 | 22±1 |
| | | | | 15 | 0 | 1 | 21.81 | 22±1 |
| | 23025 | 714.5 | | 1 | 0 | 1 | 22.31 | 22±1 |
| | | | | 1 | 7 | 1 | 22.32 | 22±1 |
| | | | | 1 | 14 | 1 | 22.39 | 22±1 |
| | | | 16QAM | 8 | 0 | 2 | 21.84 | 22±1 |
| | | | | 8 | 4 | 2 | 21.85 | 22±1 |
| | | | | 8 | 7 | 2 | 21.82 | 22±1 |
| | | | | 15 | 0 | 2 | 21.29 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|--|------------------------------|
| | | | | 1 | 0 | 0 | 22.43 | 22±1 |
| | | | | 1 | 2 | 0 | 22.45 | 22±1 |
| | | | | 1 | 5 | 0 | 22.41 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 21.87 | 22±1 |
| | | | | 3 | 1 | 0 | 21.89 | 22±1 |
| | | | | 3 | 2 | 0 | 21.82 | 22±1 |
| | 23017 | 699.7 | | 6 | 0 | 1 | 21.56 | 22±1 |
| | 23017 | 033.7 | | 1 | 0 | 1 | 21.65 | 21±1 |
| | | | | 1 | 2 | 1 | 21.62 | 21±1 |
| | | | | 1 | 5 | 1 | 21.63 | 21±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.32 | 21±1 |
| | | | | 3 | 1 | 1 | 20.33 | 21±1 |
| | | | | 3 | 2 | 1 | 21.38 | 21±1 |
| | | | | 6 | 0 | 2 | $\begin{array}{c cccc} 20.83 & 21 \pm 1 \\ 22.42 & 22 \pm 1 \\ 22.45 & 22 \pm 1 \\ 22.41 & 22 \pm 1 \end{array}$ | 21±1 |
| | | | | 1 | 0 | 0 | - | 22±1 |
| | | | | 1 | 2 | 0 | 22.45 | 22±1 |
| | | | | 1 | 5 | 0 | 22.41 | 22±1 |
| | 23095 | 707.5 | QPSK | 3 | 0 | 0 | 22.32 | 22±1 |
| | | | | 3 | 1 | 0 | 22.31 | 22±1 |
| | | | | 3 | 2 | 0 | 22.37 | 22±1 |
| 4 48411- | | | | 6 | 0 | 1 | 21.34 | 22±1 |
| 1.4MHz | | | | 1 | 0 | 1 | 22.53 | 22±1 |
| | | | | 1 | 2 | 1 | 22.52 | 22±1 |
| | | | | 1 | 5 | 1 | 22.59 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.87 | 22±1 |
| | | | | 3 | 1 | 1 | 21.85 | 22±1 |
| | | | | 3 | 2 | 1 | 21.81 | 22±1 |
| | | | | 6 | 0 | 2 | 21.22 | 22±1 |
| | | | | 1 | 0 | 0 | 22.14 | 22±1 |
| | | | | 1 | 2 | 0 | 22.15 | 22±1 |
| | | | | 1 | 5 | 0 | 22.09 | 22±1 |
| | | | QPSK | 3 | 0 | 0 | 21.85 | 22±1 |
| | | | | 3 | 1 | 0 | 21.86 | 22±1 |
| | | | | 3 | 2 | 0 | 21.82 | 22±1 |
| | 22472 | 745.0 | | 6 | 0 | 1 | 21.24 | 22±1 |
| | 23173 | 715.3 | | 1 | 0 | 1 | 22.32 | 22±1 |
| | | | | 1 | 2 | 1 | 22.36 | 22±1 |
| | | | | 1 | 5 | 1 | 22.37 | 22±1 |
| | | | 16QAM | 3 | 0 | 1 | 21.81 | 22±1 |
| | | | | 3 | 1 | 1 | 21.79 | 22±1 |
| | | | | 3 | 2 | 1 | 21.78 | 22±1 |
| | | | | 6 | 0 | 2 | 21.22 | 22±1 |



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LTE Band 17:

| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|---------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| | | | | 1 | 0 | 0 | 22.35 | 22±1 |
| | | | | 1 | 12 | 0 | 22.36 | 22±1 |
| | | | | 1 | 24 | 0 | 22.38 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.42 | 22±1 |
| | | | | 12 | 6 | 1 | 22.41 | 22±1 |
| | | | | 12 | 11 | 1 | 22.45 | 22±1 |
| | 23780 | 709.0 | | 25 | 0 | 1 | 21.64 | 22±1 |
| | 23780 | 703.0 | | 1 | 0 | 1 | 22.31 | 22±1 |
| | | | | 1 | 12 | 1 | 22.38 | 22±1 |
| | | | | 1 | 24 | 1 | 22.35 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.64 | 22±1 |
| | | | | 12 | 6 | 2 | 21.65 | 22±1 |
| | | | | 12 | 11 | 2 | 21.61 | 22±1 |
| | | | | 25 | 0 | 2 | 21.22 | 22±1 |
| | | | | 1 | 0 | 0 | 22.21 | 22±1 |
| | 23790 7 | | | 1 | 12 | 0 | 22.23 | 22±1 |
| | | | | 1 | 24 | 0 | 22.28 | $22\!\pm\!1$ |
| | | 701.0 | QPSK | 12 | 0 | 1 | 21.55 | 22±1 |
| | | | | 12 | 6 | 1 | 21.54 | 22±1 |
| | | | | 12 | 11 | 1 | 21.52 | 22±1 |
| 10MHz | | | | 25 | 0 | 1 | 21.09 | 22±1 |
| TOIVINZ | | 701.0 | | 1 | 0 | 1 | 22.14 | 22±1 |
| | | | | 1 | 12 | 1 | 22.13 | 22±1 |
| | | | | 1 | 24 | 1 | 22.15 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.78 | 22±1 |
| | | | | 12 | 6 | 2 | 21.74 | 22±1 |
| | | | | 12 | 11 | 2 | 21.75 | 22±1 |
| | | | | 25 | 0 | 2 | 21.39 | 22±1 |
| | | | | 1 | 0 | 0 | 22.27 | 22±1 |
| | | | | 1 | 12 | 0 | 22.26 | 22±1 |
| | | | | 1 | 24 | 0 | 22.22 | 22±1 |
| | | | QPSK | 12 | 0 | 1 | 21.32 | 22±1 |
| | | | | 12 | 6 | 1 | 21.35 | 22±1 |
| | | | | 12 | 11 | 1 | 21.36 | 22±1 |
| | 23800 | 711.0 | | 25 | 0 | 1 | 21.11 | 22±1 |
| | 23000 | /11.0 | | 1 | 0 | 1 | 22.36 | 22±1 |
| | | | | 1 | 12 | 1 | 22.35 | 22±1 |
| | | | | 1 | 24 | 1 | 22.38 | 22±1 |
| | | | 16QAM | 12 | 0 | 2 | 21.58 | 22±1 |
| | | | | 12 | 6 | 2 | 21.57 | 22±1 |
| | | | | 12 | 11 | 2 | 21.52 | 22±1 |
| | | | | 25 | 0 | 2 | 21.25 | 22±1 |



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| BW (MHz) | Ch | Freq. (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---|------------------------------|
| | | | | 1 | 0 | 0 | 22.34 | 22±1 |
| | | | | 1 | 24 | 0 | 22.35 | 22±1 |
| | | | | 1 | 49 | 0 | 22.31 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 21.75 | 22±1 |
| | | | | 25 | 12 | 1 | 21.74 | 22±1 |
| | | | | 25 | 24 | 1 | 21.71 | 22±1 |
| | 23755 | 706.5 | | 50 | 0 | 1 | 21.31 | 22±1 |
| | 23733 | 700.3 | | 1 | 0 | 1 | 22.36 | 22±1 |
| | | | | 1 | 24 | 1 | 22.35 | 22±1 |
| | | | | 1 | 49 | 1 | 22.37 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.82 | 22±1 |
| | | | | 25 | 12 | 2 | 21.79 | 22±1 |
| | | | | 25 | 24 | 2 | 21.81 | 22±1 |
| | | | | 50 | 0 | 2 | 21.79 22± 21.81 22± 21.44 22± 22.41 22± 22.42 22± 22.06 22± 22.04 22± 22.01 22± 21.67 22± | 22±1 |
| | | | | 1 | 0 | 0 | 22.41 | 22±1 |
| | | | | 1 | 24 | 0 | 22.42 | 22±1 |
| | | | | 1 | 49 | 0 | 22.47 | 22±1 |
| | 23790 | 710.0 | QPSK | 25 | 0 | 1 | 22.06 | 22±1 |
| | | | | 25 | 12 | 1 | 22.04 | 22±1 |
| | | | | 25 | 24 | 1 | 22.01 | 22±1 |
| 58411 | | | | 50 | 0 | 1 | 21.67 | 22±1 |
| 5MHz | | 710.0 | | 1 | 0 | 1 | 22.12 | 22±1 |
| | | | | 1 | 24 | 1 | 22.14 | 22±1 |
| | | | | 1 | 49 | 1 | 22.08 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.93 | 22±1 |
| | | | | 25 | 12 | 2 | 21.88 | 22±1 |
| | | | | 25 | 24 | 2 | 21.85 | 22±1 |
| | | | | 50 | 0 | 2 | 21.52 | 22±1 |
| | | | | 1 | 0 | 0 | 22.63 | 22±1 |
| | | | | 1 | 24 | 0 | 22.65 | 22±1 |
| | | | | 1 | 49 | 0 | 22.62 | 22±1 |
| | | | QPSK | 25 | 0 | 1 | 22.45 | 22±1 |
| | | | | 25 | 12 | 1 | 22.48 | 22±1 |
| | | | | 25 | 24 | 1 | 22.46 | 22±1 |
| | 22625 | 740 5 | | 50 | 0 | 1 | 21.74 | 22±1 |
| | 23825 | 713.5 | | 1 | 0 | 1 | 22.37 | 22±1 |
| | | | | 1 | 24 | 1 | 22.36 | 22±1 |
| | | | | 1 | 49 | 1 | 22.32 | 22±1 |
| | | | 16QAM | 25 | 0 | 2 | 21.71 | 22±1 |
| | | | | 25 | 12 | 2 | 21.69 | 22±1 |
| | | | | 25 | 24 | 2 | 21.66 | 22±1 |
| | | | | 50 | 0 | 2 | 21.23 | 22±1 |



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WIFI Mode (2.4G)

| Mode | Channel number | Frequency (MHz) | Data rate(Mbps) | Average Output Power(dBm) | Average Tune up limited(dBm) |
|---------------|-------------------|-----------------|-----------------|------------------------------|------------------------------------|
| | 1 | 2412 | 1 | 8.73 | 8.5 ± 1 |
| 802.11b | 6 | 2437 | 1 | 8.81 | 8.5±1 |
| | 11 | 2462 | 1 | 8.56 | 8.5±1 |
| | 1 | 2412 | 6 | 8.61 | 8.5±1 |
| 802.11g | 6 | 2437 | 6 | 8.38 | 8.5±1 |
| | 11 | 2462 | 6 | 8.92 | 8.5±1 |
| | 1 | 2412 | MCS0 | 8.54 | 8.5±1 |
| 802.11n(HT20) | 6 | 2437 | MCS0 | 8.46 | 8.5±1 |
| | 11 | 2462 | MCS0 | 8.17 | 8.5±1 |
| | 3 | 2422 | MCS0 | 8.78 | 8.5±1 |
| 802.11n(HT40) | 6 | 2437 | MCS0 | 8.35 | 8.5±1 |
| | 9 | 2452 | MCS0 | 8.74 | 8.5±1 |

Bluetooth Measurement Result

| Mode | Frequency (MHz) | Output Power(dBm) | Tune up limited(dBm) |
|-----------|-----------------|-------------------|----------------------|
| | 2402 | 4.286 | 4.5±1 |
| GFSK | 2441 | 5.276 | 4.5±1 |
| | 2480 | 2.588 | 3±1 |
| | 2402 | 3.444 | 4±1 |
| π /4DQPSK | 2441 | 4.544 | 4±1 |
| | 2480 | 1.874 | 2.5±1 |
| | 2402 | 3.655 | 4±1 |
| 8DPSK | 2441 | 4.473 | 4±1 |
| | 2480 | 1.981 | 2.5±1 |

BLE Measurement Result

| Channel number | Frequency (MHz) | Output Power(dBm) | Tune up limited(dBm) |
|----------------|-----------------|-------------------|----------------------|
| 0 | 2402 | -2.773 | -3.0±1 |
| 19 | 2440 | -0.986 | -0.5±1 |
| 39 | 2480 | -3.843 | -3.0±1 |

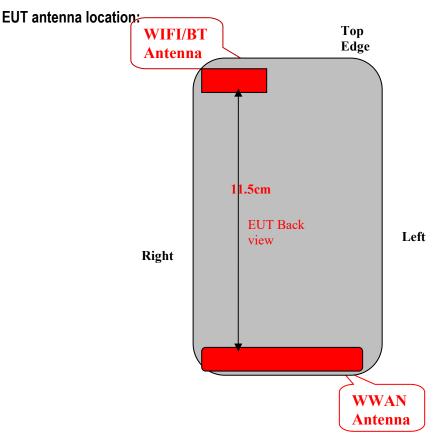
Note: 1. Both WIFI and BT power was test and only Maximum Power was provide here.

2. SAR Test Exclusion Threshold for WIFI&BT is about 9.6mW, the maximum tune up power of WIFI is 9.5dBm=8.91mW, BT is 5.5dBm=3.55mW, no stand-alone SAR is required.



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Antenna Separation Information:



Test position consideration:

| Test position | rest position consideration. | | | | | | | | |
|--|---|---|---|---|-----|-----|--|--|--|
| Distance of EUT antenna-to-edge/surface(mm), Test distance:5mm | | | | | | | | | |
| Antennas | Antennas Back side Front side Left Edge Right Edge Top Edge Bottom Edge | | | | | | | | |
| WWAN | 2 | 2 | 2 | 2 | 138 | 2 | | | |
| WLAN | 2 | 2 | 2 | 2 | 2 | 124 | | | |
| Bluetooth | 2 | 2 | 2 | 2 | 2 | 124 | | | |

| | Test distance:5mm | | | | | | | | | | | |
|-----------|-------------------|------------|-----------|------------|----------|-------------|--|--|--|--|--|--|
| Antennas | Back side | Front side | Left Edge | Right Edge | Top Edge | Bottom Edge | | | | | | |
| WWAN | YES | YES | YES | YES | NO | YES | | | | | | |
| WLAN | NO | NO | NO | NO | NO | NO | | | | | | |
| Bluetooth | NO | NO | NO | NO | NO | NO | | | | | | |

Note:

- 1. Head/Body-worn/Hotspot mode SAR assessments are required.
- 2. Referring to KDB 941225 D06v02, when the overall device length and width are \geq 9cm * 5cm, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- 3. Per KDB 447498 D01v05r02, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
- 4. WLAN/BT SAR is not required due to the low power.



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10 SAR TEST RESULTS

Test Condition:

| 1. | SAR Measurement | | |
|----|------------------------------|---|--|
| | | and the antenna of the emulator is more 30 dB less than the output power of EU | than 50 cm and the output power radiated from T. |
| 2 | Measurement Uncertainty: See | page 34 for detail | |
| 3 | Environmental Conditions | Temperature | 23°C |
| | | Relative Humidity | 53% |
| | | Atmospheric Pressure | 1019mbar |
| 4 | Test Date :Aug 1st,2016~ Aug | 10th,2016 | |
| | Tested By : Wiky Jam | | |

Generally Test Procedures:

- 1. Establish communication link between EUT and base station emulation by air link.
- 2. Place the EUT in the selected test position. (Cheek, tilt or flat)
- 3. Perform SAR testing at middle or highest output power channel under the selected test mode. If the measured 1-g SAR is ≤ 0.8 W/kg, then testing for the other channel will not be performed.
- 4. When SAR is<0.8W/kg, no repeated SAR measurement is required

For WCDMA test:

- KDB941225 D01-Body SAR is not required for HSDPA when the average output of each RF channel with HSDPA active is less than 0.25dB higher than measured without HSDPA using 12.2kbps RMC or the maximum SAR for 12.2kbps RMC<75% of the SAR limit.
- KDB941225 D01-Body SAR is not required for handset with HSPA capabilities when the maximum average output of each RF channel with HSUPA/HSDPA active is less than 0.25dB higher than that measure without HSUPA/HSDPA using 12.2kbps RMC AND THE maximum SAR for 12.2kbps RMC is<75% of the SAR limit

For LTE test:

- 1. According to FCC KDB 941225 D05v02r01:
 - a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is \leq 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
 - b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
 - c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
 - d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.



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SAR Summary Test Result:

GSM850

| Date of Measur | ed : Aug 3th,2 | 016 | | Body /Hotspot Separation Distance:1.0cm | | | | | | |
|---------------------|----------------|------------------|----------|---|----------------|--------------------|-----------------------------|-------------------|--|--|
| | | | SAR | Limit | Power Drift | Maximum Turn-up | measured output power | Scaled Maximum | | |
| Position | Channel | Mode | 1g(W/kg) | (W/kg) | (%) | Power(dBm) | (dBm) | SAR(W/kg) | | |
| Right Head Cheek | Mid | GSM voice | 0.265 | 1.6 | 3.62 | 33 | 32.14 | 0.32 | | |
| Right Head Tilt | Mid | GSM voice | 0.183 | 1.6 | -0.45 | 33 | 32.14 | 0.22 | | |
| Left Head Cheek | Mid | GSM voice | 0.312 | 1.6 | -0.40 | 33 | 32.14 | 0.38 | | |
| Left Head Tilt | Mid | GSM voice | 0.195 | 1.6 | 0.33 | 33 | 32.14 | 0.24 | | |
| Body Front-side | Mid | EGPRS Class10 | 0.614 | 1.6 | 0.80 | 32 | 31.42 | 0.70 | | |
| Body Back-edge | Low | EGPRS Class10 | 0.943 | 1.6 | -0.37 | 32 | 31.86 | 0.97 | | |
| Body Back-edge | Mid | EGPRS Class10 | 1.023 | 1.6 | -0.98 | 32 | 31.42 | 1.17 | | |
| Body Back-edge | Mid | EGPRS Class10 | 1.062 | 1.6 | -2.37 | 32 | 31.42 | 1.21 | | |
| Body Back-edge | High | EGPRS Class10 | 1.020 | 1.6 | 4.10 | 32 | 31.24 | 1.22 | | |
| Body Right-edge | Mid | EGPRS Class10 | 0.225 | 1.6 | 0.19 | 32 | 31.42 | 0.26 | | |
| Body Left-edge | Mid | EGPRS Class10 | 0.578 | 1.6 | -0.95 | 32 | 31.42 | 0.66 | | |
| Body Bottom-edge | Mid | EGPRS Class10 | 0.071 | 1.6 | -2.69 | 32 | 31.42 | 0.08 | | |

WCDMA BAND V (850)

| Date of Measure | |)16 | | Body | Body /Hotspot Separation Distance:1.0cm | | | | | |
|---------------------|---------|-----------------|-----------------|-----------------|---|----------------------------|--------------------------------------|--------------------------------|--|--|
| Position | Channel | Mode | SAR 1g(W/kg) | Limit (W/kg) | Power Drift (%) | Maximum Turn-up Power(dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | | |
| Right Head Cheek | Mid | RMC 12.2kbps | 0.159 | 1.6 | 1.29 | 22 | 21.69 | 0.17 | | |
| Right Head Tilt | Mid | RMC 12.2kbps | 0.082 | 1.6 | -1.02 | 22 | 21.69 | 0.09 | | |
| Left Head Cheek | Mid | RMC 12.2kbps | 0.181 | 1.6 | -0.65 | 22 | 21.69 | 0.19 | | |
| Left Head Tilt | Mid | RMC 12.2kbps | 0.096 | 1.6 | -0.33 | 22 | 21.69 | 0.10 | | |
| Body Front-edge | Mid | RMC 12.2kbps | 0.179 | 1.6 | -1.30 | 22 | 21.69 | 0.19 | | |
| Body Back-side | Mid | RMC 12.2kbps | 0.314 | 1.6 | -0.78 | 22 | 21.69 | 0.34 | | |
| Body Right-side | Mid | RMC 12.2kbps | 0.193 | 1.6 | 0.11 | 22 | 21.69 | 0.21 | | |
| Body Left-edge | Mid | RMC 12.2kbps | 0.161 | 1.6 | -0.60 | 22 | 21.69 | 0.17 | | |
| Body Bottom-edge | Mid | RMC 12.2kbps | 0.104 | 1.6 | -0.37 | 22 | 21.69 | 0.11 | | |



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PCS1900:

| Date of Measure | d : Aug 8th,2 | 016 | | Body /Hotspot Separation Distance:1.0cm | | | | | | |
|---------------------|---------------|------------------|-----------------|---|-----------------------|----------------------------------|--------------------------------------|--------------------------------|--|--|
| Position | Channel | Mode | SAR 1g(W/kg) | Limit (W/kg) | Power Drift (%) | Maximum Turn-up Power(dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | | |
| Right Head Cheek | Mid | GSM voice | 0.178 | 1.6 | 0.68 | 31 | 30.21 | 0.21 | | |
| Right Head Tilt | Mid | GSM voice | 0.072 | 1.6 | 1.51 | 31 | 30.21 | 0.09 | | |
| Left Head Cheek | Mid | GSM voice | 0.200 | 1.6 | -1.96 | 31 | 30.21 | 0.24 | | |
| Left Head Tilt | Mid | GSM voice | 0.086 | 1.6 | -2.14 | 31 | 30.21 | 0.10 | | |
| Body Front-edge | Mid | EGPRS Class10 | 0.358 | 1.6 | 0.31 | 29.5 | 28.21 | 0.48 | | |
| Body Back-side | Mid | EGPRS Class10 | 0.790 | 1.6 | 0.27 | 29.5 | 28.21 | 1.06 | | |
| Body Right-side | Mid | EGPRS Class10 | 0.184 | 1.6 | -1.54 | 29.5 | 28.21 | 0.25 | | |
| Body Left-edge | Mid | EGPRS Class10 | 0.115 | 1.6 | -1.63 | 29.5 | 28.21 | 0.15 | | |
| Body Bottom-edge | Mid | EGPRS Class10 | 0.102 | 1.6 | -2.50 | 29.5 | 28.21 | 0.14 | | |

WCDMA BAND II (1900):

| | WCDMA BAND II (1900): | | | | | | | | | |
|---------------------|-----------------------|-----------------|-----------------|---|-----------------------|----------------------------------|--------------------------------------|--------------------------------|--|--|
| Date of Measure | d : Aug 8th,2 | 016 | | Body /Hotspot Separation Distance:1.0cm | | | | | | |
| Position | Channel | Mode | SAR 1g(W/kg) | Limit (W/kg) | Power Drift (%) | Maximum Turn-up Power(dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | | |
| Right Head Cheek | Mid | RMC 12.2kbps | 0.442 | 1.6 | -1.58 | 23 | 21.96 | 0.56 | | |
| Right Head Tilt | Mid | RMC 12.2kbps | 0.251 | 1.6 | 0.22 | 23 | 21.96 | 0.32 | | |
| Left Head Cheek | Mid | RMC 12.2kbps | 0.316 | 1.6 | 0.47 | 23 | 21.96 | 0.40 | | |
| Left Head Tilt | Mid | RMC 12.2kbps | 0.196 | 1.6 | 0.07 | 23 | 21.96 | 0.25 | | |
| Body Front-edge | Mid | RMC 12.2kbps | 0.519 | 1.6 | -0.76 | 23 | 21.96 | 0.66 | | |
| Body Back-side | Mid | RMC 12.2kbps | 0.672 | 1.6 | -2.00 | 23 | 21.96 | 0.85 | | |
| Body Right-side | Mid | RMC 12.2kbps | 0.336 | 1.6 | 0.42 | 23 | 21.96 | 0.43 | | |
| Body Left-edge | Mid | RMC 12.2kbps | 0.169 | 1.6 | -1.32 | 23 | 21.96 | 0.21 | | |
| Body Bottom-edge | Mid | RMC 12.2kbps | 0.300 | 1.6 | -1.06 | 23 | 21.96 | 0.38 | | |



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WCDMA BANDIV(1700):

| Date of Measured | d : Aug 5th,20 |)16 | | Body /Hotspot Separation Distance: 1.0cm | | | | | |
|---------------------|----------------|-----------------|-----------------|--|-----------------------|----------------------------------|--------------------------------------|--------------------------------|--|
| Position | Channel | Mode | SAR 1g(W/kg) | Limit (W/kg) | Power Drift (%) | Maximum Turn-up Power(dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | |
| Right Head Cheek | Mid | RMC 12.2kbps | 0.275 | 1.6 | 1.45 | 22 | 21.47 | 0.31 | |
| Right Head Tilt | Mid | RMC 12.2kbps | 0.125 | 1.6 | 1.38 | 22 | 21.47 | 0.14 | |
| Left Head Cheek | Mid | RMC 12.2kbps | 0.201 | 1.6 | 0.67 | 22 | 21.47 | 0.23 | |
| Left Head Tilt | Mid | RMC 12.2kbps | 0.104 | 1.6 | 0.28 | 22 | 21.47 | 0.12 | |
| Body Front-edge | Mid | RMC 12.2kbps | 0.416 | 1.6 | 0.24 | 22 | 21.47 | 0.47 | |
| Body Back-side | Mid | RMC 12.2kbps | 0.497 | 1.6 | -1.39 | 22 | 21.47 | 0.56 | |
| Body Right-side | Mid | RMC 12.2kbps | 0.296 | 1.6 | -0.80 | 22 | 21.47 | 0.33 | |
| Body Left-edge | Mid | RMC 12.2kbps | 0.142 | 1.6 | -1.28 | 22 | 21.47 | 0.16 | |
| Body Bottom-edge | Mid | RMC 12.2kbps | 0.181 | 1.6 | 0.17 | 22 | 21.47 | 0.20 | |

LTE Band 17 (700):

| Date of Meas | ured : Aug | 1st,2016 | | | Body-worn/Hotspot Separation Distance:1.0cm | | | | | | |
|-----------------------|------------|--------------------|-------------|---------|---|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|--|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | |
| Right Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.239 | -1.61 | 23 | 22.28 | 0.28 | |
| Right Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.236 | 4.91 | 23 | 21.09 | 0.37 | |
| Right Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.107 | -3.02 | 23 | 22.28 | 0.13 | |
| Right Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.102 | -3.47 | 23 | 21.09 | 0.16 | |
| Left Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.305 | 1.96 | 23 | 22.28 | 0.36 | |
| Left Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.301 | 2.17 | 23 | 21.09 | 0.47 | |
| Left Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.160 | -0.96 | 23 | 22.28 | 0.19 | |
| Left Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.151 | -0.84 | 23 | 21.09 | 0.23 | |
| Body-worn LCD up | Mid | 10 | 0 | 1 | 24 | 0.382 | -3.35 | 23 | 22.28 | 0.45 | |
| Body-worn LCD up | Mid | 10 | 1 | 25 | 12 | 0.364 | 1.07 | 23 | 21.09 | 0.57 | |
| Body-worn LCD Down | Mid | 10 | 0 | 1 | 24 | 0.524 | 0.51 | 23 | 22.28 | 0.62 | |
| Body-worn LCD Down | Mid | 10 | 1 | 25 | 12 | 0.516 | 1.26 | 23 | 21.09 | 0.80 | |
| Body Right EDGE | Mid | 10 | 0 | 1 | 24 | 0.207 | 3.18 | 23 | 22.28 | 0.24 | |
| Body Right EDGE | Mid | 10 | 1 | 25 | 12 | 0.201 | -2.24 | 23 | 21.09 | 0.31 | |
| Body Left EDGE | Mid | 10 | 0 | 1 | 24 | 0.200 | 0.19 | 23 | 22.28 | 0.24 | |
| Body Left EDGE | Mid | 10 | 1 | 25 | 12 | 0.197 | 4.10 | 23 | 21.09 | 0.31 | |
| Body Bottom EDGE | Mid | 10 | 0 | 1 | 24 | 0.109 | 0.71 | 23 | 22.28 | 0.13 | |
| Body Bottom EDGE | Mid | 10 | 1 | 25 | 12 | 0.107 | 1.03 | 23 | 21.09 | 0.17 | |
| Modulation: QPSK | | | | | Limit: 1.6W/kg averaged over 1gram | | | | | | |



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LTE Band 12 (700):

| Date of Measured : Aug 1st,2016 Body-worn/Hotspot Separation Distance:1.0cm | | | | | | | | | | |
|---|---------|--------------------|-------------|---------|-----------|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) |
| Right Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.254 | -1.61 | 23 | 22.31 | 0.30 |
| Right Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.236 | 4.91 | 23 | 22.21 | 0.28 |
| Right Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.111 | -3.02 | 23 | 22.31 | 0.13 |
| Right Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.125 | -3.47 | 23 | 22.21 | 0.15 |
| Left Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.222 | 1.96 | 23 | 22.31 | 0.26 |
| Left Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.205 | 2.17 | 23 | 22.21 | 0.25 |
| Left Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.101 | -0.96 | 23 | 22.31 | 0.12 |
| Left Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.102 | -0.84 | 23 | 22.21 | 0.12 |
| Body-worn LCD up | Mid | 10 | 0 | 1 | 24 | 0.364 | -3.35 | 23 | 22.31 | 0.43 |
| Body-worn LCD up | Mid | 10 | 1 | 25 | 12 | 0.332 | 1.07 | 23 | 22.21 | 0.40 |
| Body-worn LCD Down | Mid | 10 | 0 | 1 | 24 | 0.522 | 0.51 | 23 | 22.31 | 0.61 |
| Body-worn LCD Down | Mid | 10 | 1 | 25 | 12 | 0.519 | 1.26 | 23 | 22.21 | 0.62 |
| Body Right EDGE | Mid | 10 | 0 | 1 | 24 | 0.207 | 3.18 | 23 | 22.31 | 0.24 |
| Body Right EDGE | Mid | 10 | 1 | 25 | 12 | 0.158 | -2.24 | 23 | 22.21 | 0.19 |
| Body Left EDGE | Mid | 10 | 0 | 1 | 24 | 0.104 | 0.19 | 23 | 22.31 | 0.12 |
| Body Left EDGE | Mid | 10 | 1 | 25 | 12 | 0.147 | 4.10 | 23 | 22.21 | 0.18 |
| Body Bottom EDGE | Mid | 10 | 0 | 1 | 24 | 0.162 | 0.71 | 23 | 22.31 | 0.19 |
| Body Bottom EDGE | Mid | 10 | 1 | 25 | 12 | 0.123 | 1.03 | 23 | 22.21 | 0.15 |
| | Mod | lulation: QPSK | | | | Lim | it: 1.6W/kg av | veraged over 1 | gram | |



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LTE Band 7 (2600):

| Date of Meas | • | 10th,2016 | | | | Body /Hots | pot Separa | ation Distan | ice:1.0cm | |
|---------------------|---------|--------------------|-------------|---------|-----------|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) |
| Right Head Cheek | Mid | 20 | 0 | 1 | 49 | 0.201 | -0.58 | 23 | 22.12 | 0.25 |
| Right Head Cheek | Mid | 20 | 1 | 50 | 24 | 0.135 | 1.31 | 23 | 21.84 | 0.18 |
| Right Head Tilt | Mid | 20 | 0 | 1 | 49 | 0.105 | -2.55 | 23 | 22.12 | 0.13 |
| Right Head Tilt | Mid | 20 | 1 | 50 | 24 | 0.091 | -1.18 | 23 | 21.84 | 0.12 |
| Left Head Cheek | Mid | 20 | 0 | 1 | 49 | 0.205 | 2.92 | 23 | 22.12 | 0.25 |
| Left Head Cheek | Mid | 20 | 1 | 50 | 24 | 0.208 | 0.7 | 23 | 21.84 | 0.27 |
| Left Head Tilt | Mid | 20 | 0 | 1 | 49 | 0.166 | 0.87 | 23 | 22.12 | 0.20 |
| Left Head Tilt | Mid | 20 | 1 | 50 | 24 | 0.071 | -2.33 | 23 | 21.84 | 0.09 |
| Body LCD Front | Mid | 20 | 0 | 1 | 49 | 0.421 | -1.62 | 23 | 22.12 | 0.52 |
| Body LCD Front | Mid | 20 | 1 | 50 | 24 | 0.437 | 0.36 | 23 | 21.84 | 0.57 |
| Body LCD Down | Mid | 20 | 0 | 1 | 49 | 0.590 | -2.53 | 23 | 22.12 | 0.72 |
| Body LCD Down | Mid | 20 | 1 | 50 | 24 | 0.587 | 1.43 | 23 | 21.84 | 0.77 |
| Body Left EDGE | Mid | 20 | 0 | 1 | 49 | 0.112 | -0.66 | 23 | 22.12 | 0.14 |
| Body Left EDGE | Mid | 20 | 1 | 50 | 24 | 0.167 | 1.08 | 23 | 21.84 | 0.22 |
| Body Right EDGE | Mid | 20 | 0 | 1 | 49 | 0.112 | -0.66 | 23 | 22.12 | 0.14 |
| Body Right EDGE | Mid | 20 | 1 | 50 | 24 | 0.287 | 12 | 23 | 21.84 | 0.37 |
| Body Bottom EDGE | Mid | 20 | 0 | 1 | 49 | 0.272 | -0.66 | 23 | 22.12 | 0.33 |
| Body Bottom EDGE | Mid | 20 | 1 | 50 | 24 | 0.263 | 1.60 | 23 | 21.84 | 0.34 |
| | Mod | ulation: QPSK | | | | Lim | nit: 1.6W/kg av | veraged over 1 | gram | |



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LTE Band 5 (850):

| Date of Meas | | 3th,2016 | | | E | Body /Hotsp | oot Separa | tion Distan | ce:1.0cm | |
|---------------------|---------|--------------------|-------------|----------|-----------|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) |
| Right Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.122 | 1.04 | 23 | 22.48 | 0.14 |
| Right Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.135 | -1.56 | 23 | 21.31 | 0.20 |
| Right Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.074 | 2.17 | 23 | 22.48 | 0.08 |
| Right Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.086 | -1.13 | 23 | 21.31 | 0.13 |
| Left Head Cheek | Mid | 10 | 0 | 1 | 24 | 0.163 | -1.47 | 23 | 22.48 | 0.18 |
| Left Head Cheek | Mid | 10 | 1 | 25 | 12 | 0.149 | 1.88 | 23 | 21.31 | 0.22 |
| Left Head Tilt | Mid | 10 | 0 | 1 | 24 | 0.081 | 1.36 | 23 | 22.48 | 0.09 |
| Left Head Tilt | Mid | 10 | 1 | 25 | 12 | 0.090 | -0.71 | 23 | 21.31 | 0.13 |
| Body LCD Front | Mid | 10 | 0 | 1 | 24 | 0.110 | 2.87 | 23 | 22.48 | 0.12 |
| Body LCD Front | Mid | 10 | 1 | 25 | 12 | 0.102 | -1.21 | 23 | 21.31 | 0.15 |
| Body LCD Down | Mid | 10 | 0 | 1 | 24 | 0.415 | -2.19 | 23 | 22.48 | 0.47 |
| Body LCD Down | Mid | 10 | 1 | 25 | 12 | 0.411 | -1.64 | 23 | 21.31 | 0.61 |
| Body Left EDGE | Mid | 10 | 0 | 1 | 24 | 0.066 | 0.66 | 23 | 22.48 | 0.07 |
| Body Left EDGE | Mid | 10 | 1 | 25 | 12 | 0.075 | 1.41 | 23 | 21.31 | 0.11 |
| Body Right EDGE | Mid | 10 | 0 | 1 | 24 | 0.061 | 0.66 | 23 | 22.48 | 0.07 |
| Body Right EDGE | Mid | 10 | 1 | 25 | 12 | 0.077 | -2.30 | 23 | 21.31 | 0.11 |
| Body Bottom EDGE | Mid | 10 | 0 | 1 | 24 | 0.091 | 0.66 | 23 | 22.48 | 0.10 |
| Body Bottom EDGE | Mid | 10 | 1 | 25 | 12 | 0.075 | 2.99 | 23 | 21.31 | 0.11 |
| | Mod | lulation: QPSK | | <u>-</u> | | Lim | it: 1.6W/kg av | veraged over 1 | gram | |



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LTE Band 4 (1700):

| Date of Meas | ured : Aug | 5th,2016 | | | Body /Hotspot Separation Distance:1.0cm | | | | | | |
|---------------------|------------|--------------------|-------------|---------|---|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|--|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) | |
| Right Head Cheek | Mid | 20 | 0 | 1 | 50 | 0.186 | 1.81 | 23 | 22.57 | 0.21 | |
| Right Head Cheek | Mid | 20 | 1 | 50 | 25 | 0.169 | 1.63 | 23 | 21.98 | 0.21 | |
| Right Head Tilt | Mid | 20 | 0 | 1 | 50 | 0.074 | -2.83 | 23 | 22.57 | 0.08 | |
| Right Head Tilt | Mid | 20 | 1 | 50 | 25 | 0.081 | -3.21 | 23 | 21.98 | 0.10 | |
| Left Head Cheek | Mid | 20 | 0 | 1 | 50 | 0.200 | -0.51 | 23 | 22.57 | 0.22 | |
| Left Head Cheek | Mid | 20 | 1 | 50 | 25 | 0.196 | 0.96 | 23 | 21.98 | 0.25 | |
| Left Head Tilt | Mid | 20 | 0 | 1 | 50 | 0.094 | 0.41 | 23 | 22.57 | 0.10 | |
| Left Head Tilt | Mid | 20 | 1 | 50 | 25 | 0.082 | 1.46 | 23 | 21.98 | 0.10 | |
| Body LCD Front | Mid | 20 | 0 | 1 | 50 | 0.320 | -0.52 | 23 | 22.57 | 0.35 | |
| Body LCD Front | Mid | 20 | 0 | 1 | 50 | 0.326 | -3.66 | 23 | 21.98 | 0.41 | |
| Body LCD Down | Mid | 20 | 0 | 1 | 50 | 0.541 | 1.47 | 23 | 22.57 | 0.60 | |
| Body LCD Down | Mid | 20 | 0 | 1 | 50 | 0.527 | 2.01 | 23 | 21.98 | 0.67 | |
| Body Left EDGE | Mid | 20 | 1 | 50 | 25 | 0.217 | -0.22 | 23 | 22.57 | 0.24 | |
| Body Left EDGE | Mid | 20 | 0 | 1 | 50 | 0.221 | 0.94 | 23 | 21.98 | 0.28 | |
| Body Right EDGE | Mid | 20 | 1 | 50 | 25 | 0.219 | 2.64 | 23 | 22.57 | 0.24 | |
| Body Right EDGE | Mid | 20 | 0 | 1 | 50 | 0.105 | -3.61 | 23 | 21.98 | 0.13 | |
| Body Bottom EDGE | Mid | 20 | 1 | 50 | 25 | 0.195 | -4.71 | 23 | 22.57 | 0.22 | |
| Body Bottom EDGE | Mid | 20 | 0 | 1 | 50 | 0.202 | 3.21 | 23 | 21.98 | 0.26 | |
| | Mod | lulation: QPSK | | | | Lim | nit: 1.6W/kg av | veraged over 1 | gram | | |



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LTE Band 2 (1900):

| Date of Meas | ured : Aug | 8th,2016 | | | Во | dy /Hotspo | t Separati | on Distance | e:1.0cm | |
|---------------------|------------|--------------------|-------------|---------|-----------|-----------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------|
| Position | Channel | Bandwidth (MHz) | MPR (dB) | RB Size | RB Offset | SAR 1g(W/kg) | Power Drift (%) | Maximum Turn-up Power (dBm) | measured output power (dBm) | Scaled Maximum SAR(W/kg) |
| Right Head Cheek | Mid | 20 | 0 | 1 | 49 | 0.294 | 1.35 | 23 | 22.68 | 0.32 |
| Right Head Cheek | Mid | 20 | 1 | 50 | 24 | 0.268 | -0.53 | 23 | 21.67 | 0.36 |
| Right Head Tilt | Mid | 20 | 0 | 1 | 49 | 0.175 | -0.07 | 23 | 22.68 | 0.19 |
| Right Head Tilt | Mid | 20 | 1 | 50 | 24 | 0.168 | -0.33 | 23 | 21.67 | 0.23 |
| Left Head Cheek | Mid | 20 | 0 | 1 | 49 | 0.339 | 1.50 | 23 | 22.68 | 0.36 |
| Left Head Cheek | Mid | 20 | 1 | 50 | 24 | 0.314 | 3.67 | 23 | 21.67 | 0.43 |
| Left Head Tilt | Mid | 20 | 0 | 1 | 49 | 0.186 | -0.40 | 23 | 22.68 | 0.20 |
| Left Head Tilt | Mid | 20 | 1 | 50 | 24 | 0.171 | -1.79 | 23 | 21.67 | 0.23 |
| Body LCD Front | Mid | 20 | 0 | 1 | 49 | 0.526 | 1.63 | 23 | 22.68 | 0.57 |
| Body LCD Front | Mid | 20 | 0 | 1 | 49 | 0.507 | -2.11 | 23 | 21.67 | 0.69 |
| Body LCD Down | Mid | 20 | 0 | 1 | 49 | 0.747 | -0.88 | 23 | 22.68 | 0.80 |
| Body LCD Down | Mid | 20 | 0 | 1 | 49 | 0.715 | -0.02 | 23 | 21.67 | 0.97 |
| Body Left EDGE | Mid | 20 | 1 | 50 | 24 | 0.211 | -2.02 | 23 | 22.68 | 0.23 |
| Body Left EDGE | Mid | 20 | 0 | 1 | 49 | 0.208 | 1.26 | 23 | 21.67 | 0.28 |
| Body Right EDGE | Mid | 20 | 1 | 50 | 24 | 0.205 | -3.27 | 23 | 22.68 | 0.22 |
| Body Right EDGE | Mid | 20 | 0 | 1 | 49 | 0.213 | 2.09 | 23 | 21.67 | 0.29 |
| Body Bottom EDGE | Mid | 20 | 1 | 50 | 24 | 0.188 | -0.97 | 23 | 22.68 | 0.20 |
| Body Bottom EDGE | Mid | 20 | 1 | 50 | 24 | 0.206 | -0.33 | 23 | 21.67 | 0.28 |
| | Mod | lulation: QPSK | | | | Lim | it: 1.6W/kg av | veraged over 1 | gram | |



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Measurement variability consideration

According to KDB 865664 D01v01 section 2.8.1, repeated measurements are required following the procedures as below:

- 1. Repeated measurement is not required when the original highest measured SAR is < 0.80W/kg; steps 2) through 4) do not apply.
- 2. When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. Measured SAR (W/Kg)

Repeated SAR:

| Band | | | | | measure | measured SAR(W/kg) | | | |
|--------|-------------------|---------|------------------|----------|---------|---------------------|------------|-------|--|
| | Position | Channel | Mode | Original | 1st Rep | peated | 2r Repe | | |
| | | | | | Value | Ratio | Value | Ratio | |
| GSM850 | Body Back-side | Mid | EGPRS Class10 | 1.023 | 1.062 | 1.00 | NA | NA | |



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Simultaneous Transmission SAR Analysis.

| No. | Applicable Simultaneous Transmission Combination | |
|-----|--|--|
| 1. | WWAN+BT | |
| 2. | WWAN+WIFI | |

Note:

- 1. For simultaneous transmission analysis, WiFi and Bluetooth SAR is estimated per KDB 447498 D01 v06 base on the formula below:
 - (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f_{(GHz)}/x}$] W/kg for test separation distances ≤ 50 mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.²¹
- 2. If the test separation distances is≤5mm, 5mm is used for estimated SAR calculation.
- 3. WIFI maximum tune up power is 9.7dBm, BT's maximum tune up power is 0.3dBm and the estimated SAR is listed below.

| Test position | Head(0.5cm) | Body (1.0cm) |
|--------------------------|-------------|--------------|
| WIFI Estimated SAR(W/kg) | 0.37 | 0.19 |
| BT Estimated SAR(W/kg) | 0.15 | 0.07 |

Maximum Summation:

| | WWAN | WIFI | ВТ | WWAN+WIFI | WWAN+BT |
|------------|-----------------|-----------------|-----------------|---------------|------------|
| position | Max. Scaled SAR | Max. Scaled SAR | Max. Scaled SAR | VVVVAINTVVIFI | VVVVAINTDI |
| Head 0cm | 0.56 | 0.37 | 0.15 | 0.93 | 0.71 |
| Body 1.0cm | 1.22 | 0.19 | 0.07 | 1.41 | 1.29 |

Note: 1g-SAR scalar summation<1.6W/kg, so no simultaneous SAR is required.



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11 SAR MEASUREMENT REFERENCES

References

- 1. FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- 2. IEEE Std. C95.1-1999, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz", 1999
- IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- 4. IEC 62209-2, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices—Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate(SAR) for wireless communication devices used in close proximity to the human body(frequency range of 30MHz to 6GHz)", March 2010
- 5. FCC KDB 447498 D01 v06, "RF Exposure Procedures and Equipment Authorization Policies For Mobile and Portable Device", October 23, 2015
- 6. FCC KDB 941225 D01 v03r01, "3G SAR Measurement Procedures", October 23, 2015
- 7. FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements For 100MHz to 6GHz", August 7, 2015
- 8. FCC KDB648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets". October 23, 2015
- 9. FCC KDB 941225 D06 v02r01, Hot Spot SAR ,October 23, 2015
- 10. FCC KDB 941225 D05 v02r04, "SAR Evaluation Considerations for LTE Devices", October 23, 2015



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Maximum SAR measurement Plots

Test mode: GSM850, Middle channel (Left Head Cheek)

Product Description: Mobile phone

Model: SL5200

Test Date: Aug 3th,2016

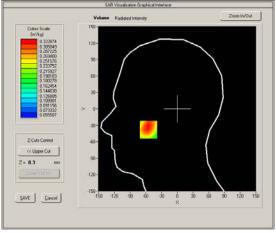
SAVE Cancel

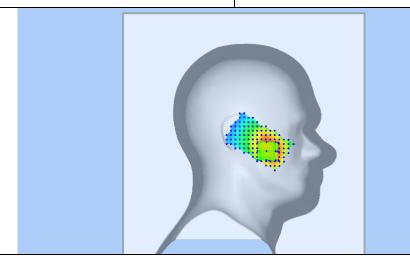
| HSL_835 |
|----------------------------|
| 836.6000 |
| 41.2 |
| 0.91 |
| SN 27/15 EPGO262 |
| 8.0 |
| 1.90 |
| 4mm |
| dx=8mm dy=8mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm |
| 3.100000 |
| 0.139193 |
| 0.312208 |
| |

SURFACE SAR

56 X (mm) 40 Y (mm)

Zoom In/Out







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Test mode: GPRS850, Middle channel (Body Back Side)

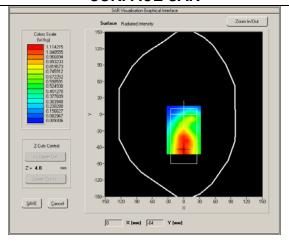
Product Description: Mobile phone

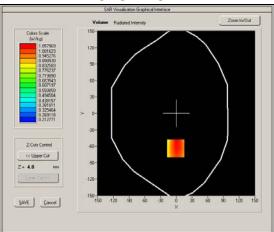
Model: SL5200

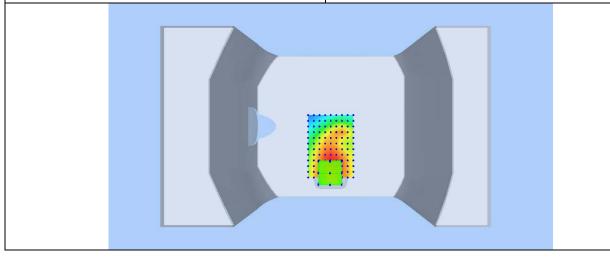
Test Date: Aug 3th,2016

| rest bate. Aug 3til,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_835 |
| Frequency (MHz) | 836.6000 |
| Relative permittivity (real part) | 55.17 |
| Conductivity (S/m) | 0.99 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 4.0 |
| Conversion Factor | 1.97 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 2.070000 |
| SAR 10g (W/Kg) | 0.6940330 |
| SAR 1g (W/Kg) | 1.0233194 |

SURFACE SAR









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|-------------|----------------|
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Test mode: WCDMA Band V, Middle channel (Left Head Cheek)

Product Description: Mobile phone

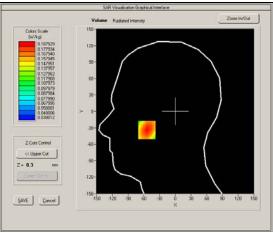
Model: SL5200

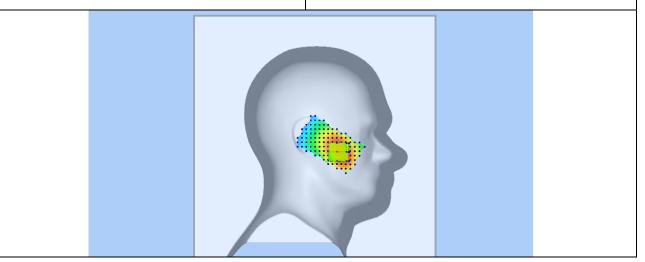
Test Date: Aug 3th,2016

| rest bate. Aug 3til,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_835 |
| Frequency (MHz) | 836.600 |
| Relative permittivity (real part) | 41.2 |
| Conductivity (S/m) | 0.91 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.90 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 4.170000 |
| SAR 10g (W/Kg) | 0.091925 |
| SAR 1g (W/Kg) | 0.181332 |

SURFACE SAR

56 X (mm) 32 Y (mm)







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|-------------|----------------|
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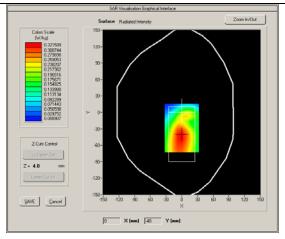
Test mode: WCDMA Band V, Middle channel (Body Back Side)

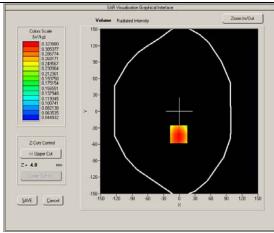
Product Description: Mobile phone Model: SL5200

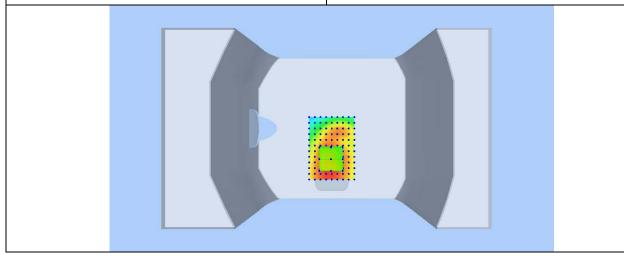
Test Date: Aug 3th,2016

| Test Bute. Aug otti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_835 |
| Frequency (MHz) | 835.0000 |
| Relative permittivity (real part) | 55.17 |
| Conductivity (S/m) | 0.99 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.97 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 2.580000 |
| SAR 10g (W/Kg) | 0.149379 |
| SAR 1g (W/Kg) | 0.314203 |
| | |

SURFACE SAR









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|-------------|----------------|
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Test mode: PCS1900, Middle channel (Left Head Cheek)

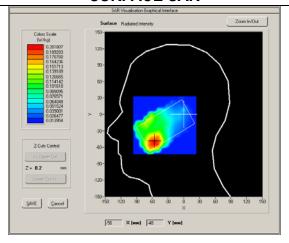
Product Description: Mobile phone

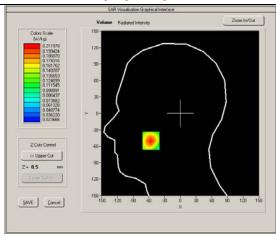
Model: SL5200

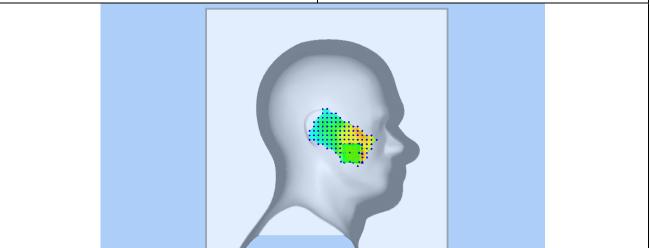
Test Date: Aug 8th,2016

| rest bate. Aug otti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_1900 |
| Frequency (MHz) | 1880.000 |
| Relative permittivity (real part) | 40.02 |
| Conductivity (S/m) | 1.37 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 8.0 |
| Conversion Factor | 2.26 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -1.210000 |
| SAR 10g (W/Kg) | 0.104271 |
| SAR 1g (W/Kg) | 0.199614 |

SURFACE SAR









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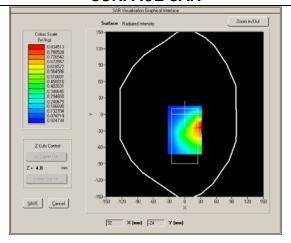
Test mode: GPRS1900, Middle channel (Body Back Side)

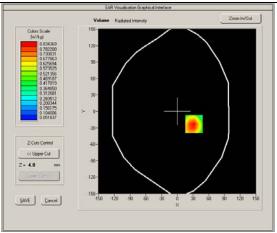
Product Description: Mobile phone Model: SL5200

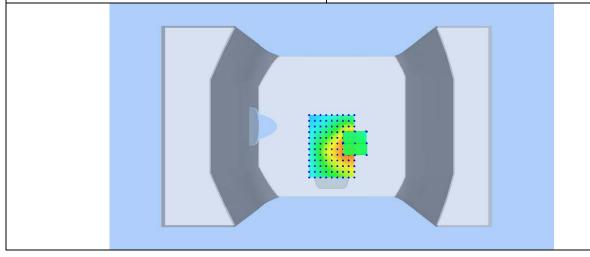
Test Date: Aug 8th,2016

| rest bate. Aug otti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_1900 |
| Frequency (MHz) | 1850.200 |
| Relative permittivity (real part) | 53.29 |
| Conductivity (S/m) | 1.51 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 4.0 |
| Conversion Factor | 2.32 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -2.00000 |
| SAR 10g (W/Kg) | 0.353461 |
| SAR 1g (W/Kg) | 0.790754 |

SURFACE SAR









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Test mode: WCDMA Band II, Middle channel (Right Head Cheek)

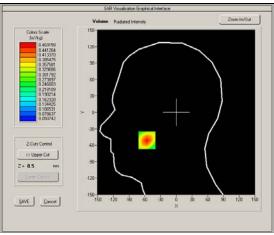
Product Description: Mobile phone Model: SL5200

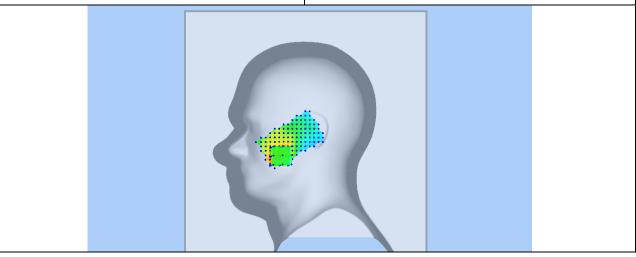
Test Date: Aug 8th,2016

| rest bate. Aug otti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_1900 |
| Frequency (MHz) | 1880.000 |
| Relative permittivity (real part) | 40.02 |
| Conductivity (S/m) | 1.37 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.26 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 1.330000 |
| SAR 10g (W/Kg) | 0.246172 |
| SAR 1g (W/Kg) | 0.442264 |

SURFACE SAR

SAVE Cancel 56 X (mm) -48 Y (mm)







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|-------------|----------------|
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Test mode: WCDMA Band II, Middle channel (Body Back Side)

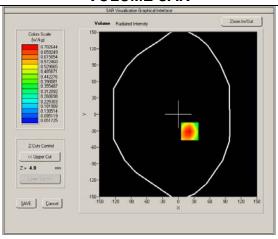
Product Description: Mobile phone Model: SL5200

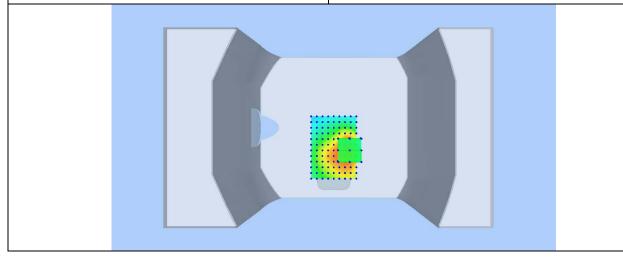
Test Date: Aug 8th,2016

| rest bate. Aug otti, zoro | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_1900 |
| Frequency (MHz) | 1880.000 |
| Relative permittivity (real part) | 53.29 |
| Conductivity (S/m) | 1.51 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.32 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -0.76000 |
| SAR 10g (W/Kg) | 0.322100 |
| SAR 1g (W/Kg) | 0.672214 |

SURFACE SAR

SAVE Cancel 24 X (mm) -32 Y (mm)







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Test mode: WCDMA Band IV, Middle channel (Right Head Cheek)

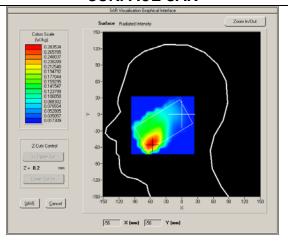
Product Description: Mobile phone

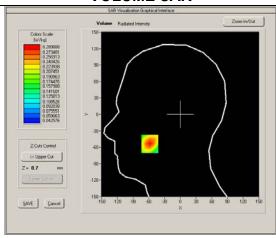
Model: SL5200

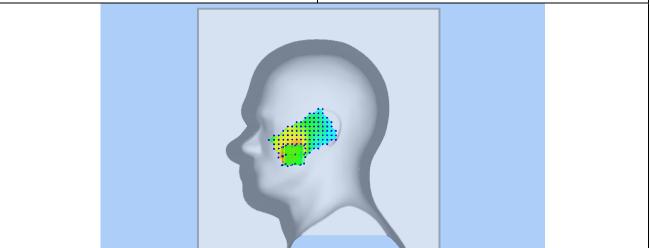
Test Date: Aug 5th,2016

| rest bate. Aug 5th,2016 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_1800 |
| Frequency (MHz) | 1732.600 |
| Relative permittivity (real part) | 39. 96 |
| Conductivity (S/m) | 1.42 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.01 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -4.86000 |
| SAR 10g (W/Kg) | 0.170458 |
| SAR 1g (W/Kg) | 0.275126 |

SURFACE SAR









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Test mode: WCDMA Band IV, Middle channel (Body Back Side)

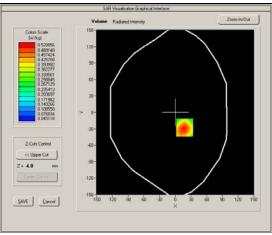
Product Description: Mobile phone Model: SL5200

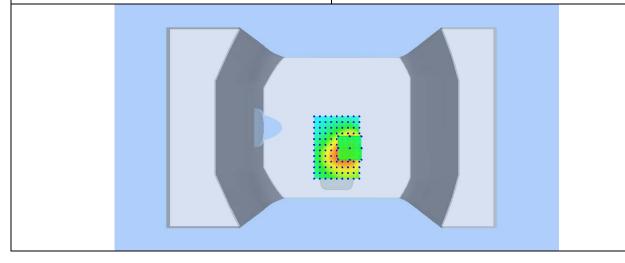
Test Date: Aug 5th,2016

| rest bate. Aug otti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_1800 |
| Frequency (MHz) | 1712.600 |
| Relative permittivity (real part) | 53.26 |
| Conductivity (S/m) | 1.55 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.05 |
| Sensor-Surface | 4mm |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 0.220000 |
| SAR 10g (W/Kg) | 0.263251 |
| SAR 1g (W/Kg) | 0.497828 |

SURFACE SAR

SAVE Cancel 16 X (mm) -32 Y (mm)







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|-------------|----------------|
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Test mode: LTE BAND 17, Middle channel (Left Head Cheek)

Product Description: Mobile phone

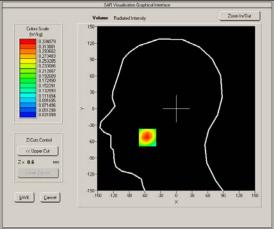
Model: SL5200

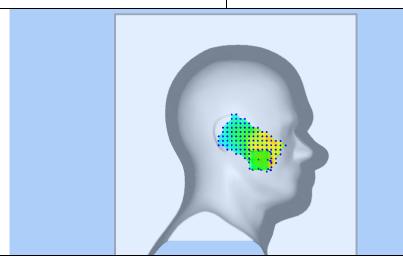
Test Date: Aug 1st,2016

| Test Date: Aug 1st,2016 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_750 |
| Frequency (MHz) | 710.0000 |
| Relative permittivity (real part) | 41.95 |
| Conductivity (S/m) | 0.91 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.68 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -1.61000 |
| SAR 10g (W/Kg) | 0.162516 |
| SAR 1g (W/Kg) | 0.305002 |
| | |

SURFACE SAR

86 X (mm) 86 Y (mm)







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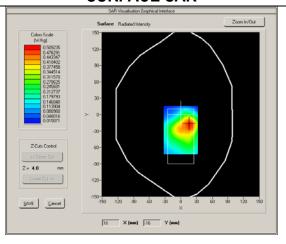
Test mode: LTE BAND 17, Middle channel (Body Back Side)

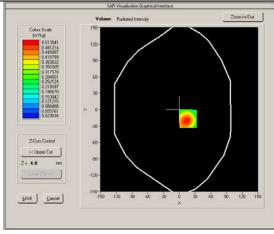
Product Description: Mobile phone Model: SL5200

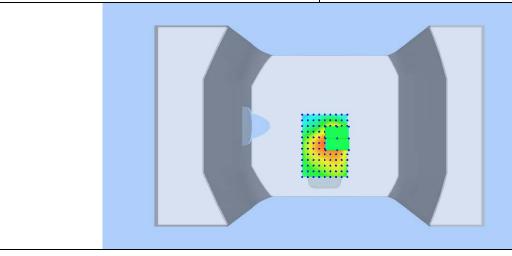
Test Date: Aug 1st,2016

| Test Date. Aug 191,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_750 |
| Frequency (MHz) | 710.0000 |
| Relative permittivity (real part) | 55.56 |
| Conductivity (S/m) | 0.97 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.74 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 3.130000 |
| SAR 10g (W/Kg) | 0.290168 |
| SAR 1g (W/Kg) | 0.524107 |
| - | |

SURFACE SAR









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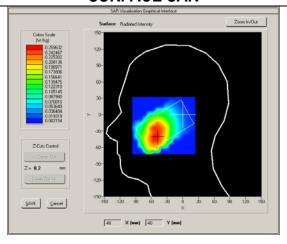
Test mode: LTE BAND 12, Middle channel (Right Head Cheek)

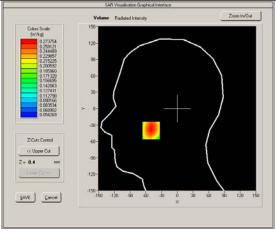
Product Description: Mobile phone Model: SL5200

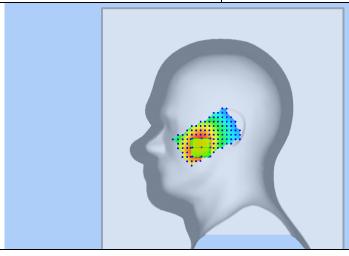
Test Date: Aug 1st,2016

| rest bate. Aug 191,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_750 |
| Frequency (MHz) | 710.0000 |
| Relative permittivity (real part) | 41.95 |
| Conductivity (S/m) | 0.91 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.68 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -1.61000 |
| SAR 10g (W/Kg) | 0.152002 |
| SAR 1g (W/Kg) | 0.254002 |
| | |

SURFACE SAR









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Test mode: LTE BAND 12, Middle channel (Body Back Side)

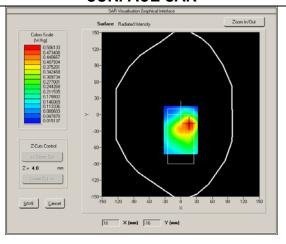
Product Description: Mobile phone

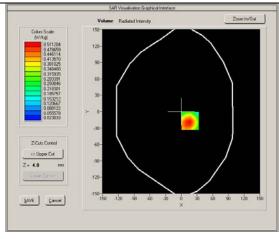
Model: SL5200

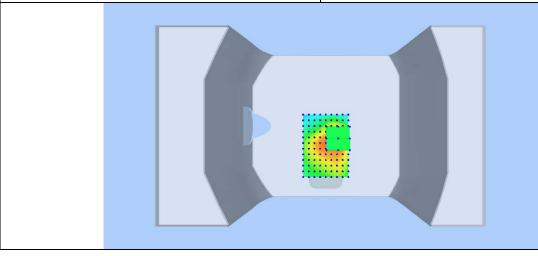
Test Date: Aug 1st,2016

| rest Date. Aug 15t,2016 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_750 |
| Frequency (MHz) | 710.0000 |
| Relative permittivity (real part) | 55.56 |
| Conductivity (S/m) | 0.97 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.74 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 3.130000 |
| SAR 10g (W/Kg) | 0.281342 |
| SAR 1g (W/Kg) | 0.512220 |
| | |

SURFACE SAR









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Test mode: LTE BAND 7, Middle channel (Left Head Cheek)

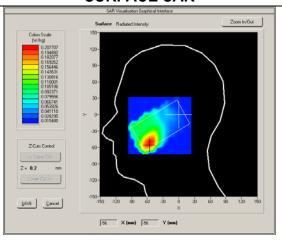
Product Description: Mobile phone

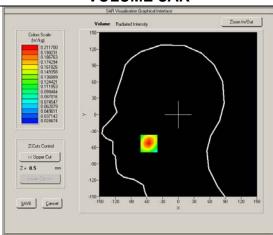
Model: SL5200

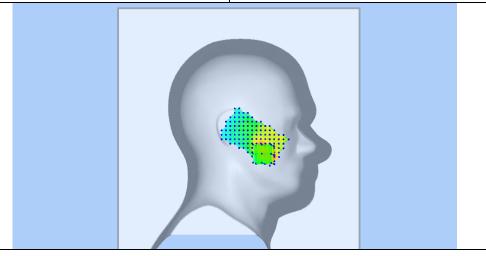
Test Date: Aug 10th,2016

| Test Date. Aug Totti,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_2600 |
| Frequency (MHz) | 2535.0000 |
| Relative permittivity (real part) | 55.29 |
| Conductivity (S/m) | 1.97 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.28 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 20 |
| RB Allocation | 1 |
| RB Offset | 49 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -0.58000 |
| SAR 10g (W/Kg) | 0.107654 |
| SAR 1g (W/Kg) | 0.205412 |
| | 1 |

SURFACE SAR









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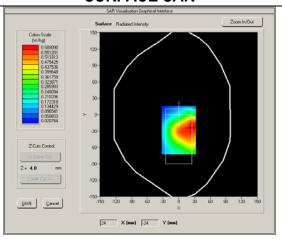
Test mode: LTE BAND 7, Mid channel (Body Down Side)

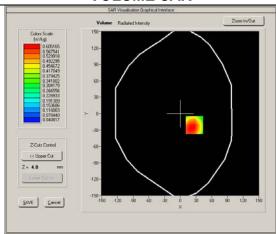
Product Description: Mobile phone Model: SL5200

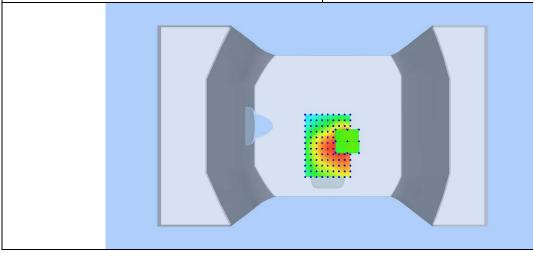
Test Date: Aug 10th,2016

| rest bate. Aug 10th,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_2600 |
| Frequency (MHz) | 2535.0000 |
| Relative permittivity (real part) | 51.96 |
| Conductivity (S/m) | 2.17 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.34 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 20 |
| RB Allocation | 1 |
| RB Offset | 49 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -1.62000 |
| SAR 10g (W/Kg) | 0.256527 |
| SAR 1g (W/Kg) | 0.590192 |
| | |

SURFACE SAR









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Test mode: LTE BAND 5, Middle channel (Left Head Cheek)

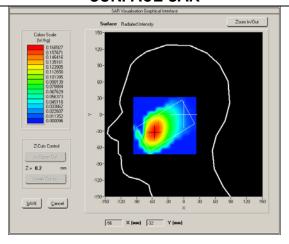
Product Description: Mobile phone

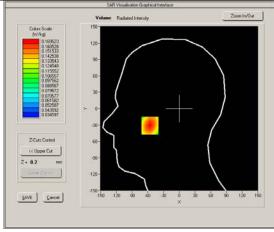
Model: SL5200

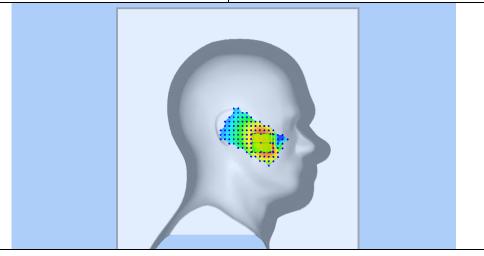
Test Date: Aug 3th,2016

| Medium(liquid type) | HSL_835 |
|-----------------------------------|----------------------------|
| | |
| Frequency (MHz) | 836.5000 |
| Relative permittivity (real part) | 41.3 |
| Conductivity (S/m) | 0.94 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.90 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 1.040000 |
| SAR 10g (W/Kg) | 0.086522 |
| SAR 1g (W/Kg) | 0.163211 |
| | |

SURFACE SAR









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Test mode: LTE BAND 5, Mid channel (Body Down Side)

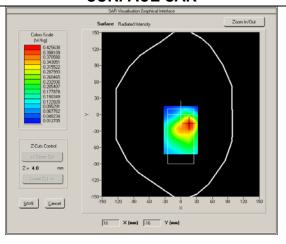
Product Description: Mobile phone

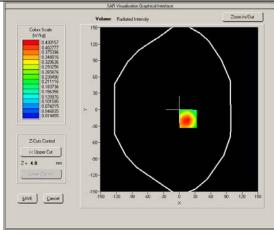
Model: SL5200

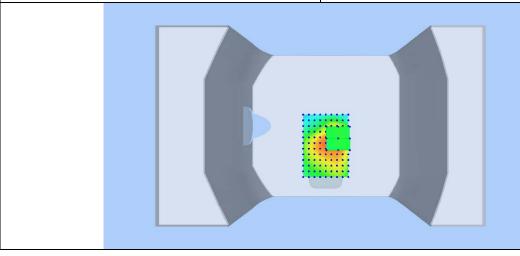
Test Date: Aug 3th,2016

| rest Date. Aug 3til,2016 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | MSL_835 |
| Frequency (MHz) | 836.5000 |
| Relative permittivity (real part) | 55.22 |
| Conductivity (S/m) | 0.95 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 1.97 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 10 |
| RB Allocation | 1 |
| RB Offset | 24 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | -1.210000 |
| SAR 10g (W/Kg) | 0.261508 |
| SAR 1g (W/Kg) | 0.415081 |
| | |

SURFACE SAR









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Test mode: LTE BAND 4, Middle channel (Left Head Cheek)

Product Description: Mobile phone

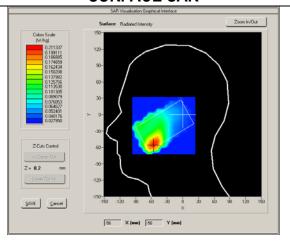
Model: SL5200

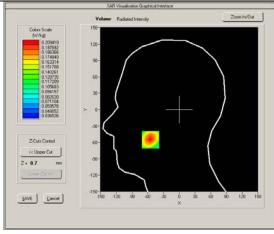
Test Date: Aug 5th,2016

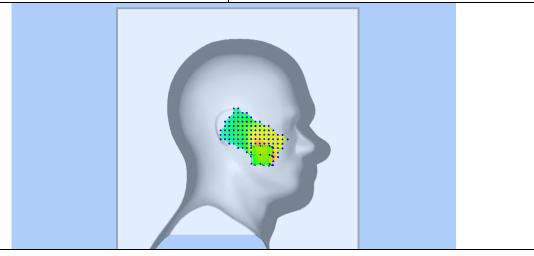
| rest bate. Aug 3til,2010 | |
|-----------------------------------|----------------------------|
| Medium(liquid type) | HSL_1700 |
| Frequency (MHz) | 1732.5000 |
| Relative permittivity (real part) | 39.98 |
| Conductivity (S/m) | 1.41 |
| E-Field Probe | SN 27/15 EPGO262 |
| Crest factor | 1.0 |
| Conversion Factor | 2.01 |
| Sensor-Surface | 4mm |
| Bandwidth(MHz) | 20 |
| RB Allocation | 1 |
| RB Offset | 50 |
| Area Scan | dx=8mm dy=8mm |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm |
| Variation (%) | 0.410000 |
| SAR 10g (W/Kg) | 0.106056 |
| SAR 1g (W/Kg) | 0.200127 |
| • • • • • | |

SURFACE SAR

VOLUME SAR SAR Virtualization Gregorical Interface









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Test mode: LTE BAND 4, Middle channel (Body Down Side)

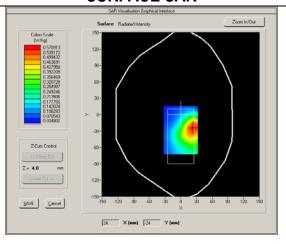
Product Description: Mobile phone

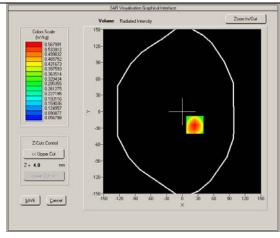
Model: SL5200

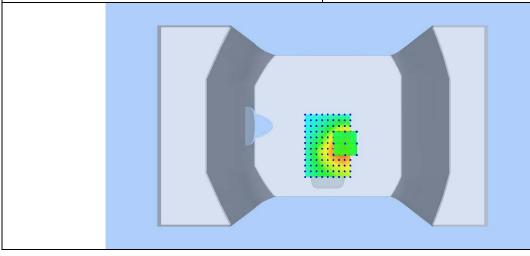
Test Date: Aug 5th,2016

| rest bate. Aug otti,2010 | | | |
|-----------------------------------|----------------------------|--|--|
| Medium(liquid type) | MSL_1800 | | |
| Frequency (MHz) | 1732.5000 | | |
| Relative permittivity (real part) | 53.25 | | |
| Conductivity (S/m) | 1.56 | | |
| E-Field Probe | SN 27/15 EPGO262 | | |
| Crest factor | 1.0 | | |
| Conversion Factor | 2.05 | | |
| Sensor-Surface | 4mm | | |
| Bandwidth(MHz) | 20 | | |
| RB Allocation | 1 | | |
| RB Offset | 50 | | |
| Area Scan | dx=8mm dy=8mm | | |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm | | |
| Variation (%) | -0.52000 | | |
| SAR 10g (W/Kg) | 0.232654 | | |
| SAR 1g (W/Kg) | 0.541129 | | |
| | 1 | | |

SURFACE SAR









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Test mode: LTE BAND 2, Middle channel (Left Head Cheek)

Product Description: Mobile phone

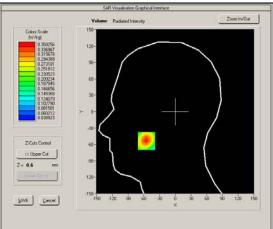
Model: SL5200

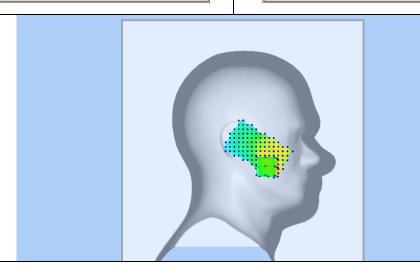
Test Date: Aug 8th,2016

| rest bate. Aug otti,2010 | | | |
|---------------------------------------|----------------------------|--|--|
| Medium(liquid type) | HSL_1900 | | |
| Frequency (MHz) | 1880.0000 | | |
| Relative permittivity (real part) | 40.03 | | |
| Conductivity (S/m) | 1.39 | | |
| E-Field Probe | SN 27/15 EPGO262 | | |
| Crest factor | 1.0 | | |
| Conversion Factor | 2.26 | | |
| Sensor-Surface | 4mm | | |
| Bandwidth(MHz) | 20 | | |
| RB Allocation | 1 | | |
| RB Offset | 49 | | |
| Area Scan | dx=8mm dy=8mm | | |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm | | |
| Variation (%) | 1.350000 | | |
| SAR 10g (W/Kg) | 0.182216 | | |
| SAR 1g (W/Kg) | 0.339261 | | |
| · · · · · · · · · · · · · · · · · · · | | | |

SURFACE SAR

86 X (mm) 86 Y (mm)







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Test mode: LTE BAND 2, Middle channel (Body Down Side)

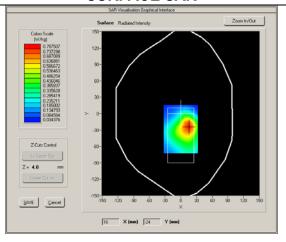
Product Description: Mobile phone

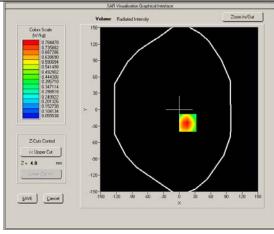
Model: SL5200

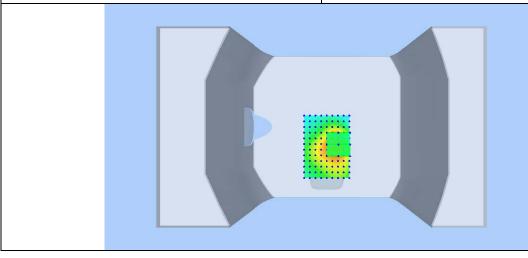
Test Date: Aug 8th,2016

| Test Date. Aug otti,2010 | | | |
|-----------------------------------|----------------------------|--|--|
| Medium(liquid type) | MSL_1900 | | |
| Frequency (MHz) | 1880.0000 | | |
| Relative permittivity (real part) | 53.28 | | |
| Conductivity (S/m) | 1.53 | | |
| E-Field Probe | SN 27/15 EPGO262 | | |
| Crest factor | 1.0 | | |
| Conversion Factor | 2.32 | | |
| Sensor-Surface | 4mm | | |
| Bandwidth(MHz) | 20 | | |
| RB Allocation | 1 | | |
| RB Offset | 49 | | |
| Area Scan | dx=8mm dy=8mm | | |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm | | |
| Variation (%) | -0.88000 | | |
| SAR 10g (W/Kg) | 0.328451 | | |
| SAR 1g (W/Kg) | 0.747104 | | |
| | | | |

SURFACE SAR









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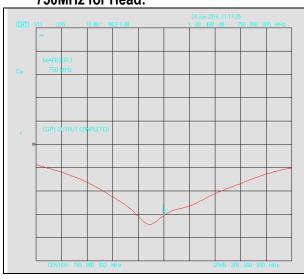
Annex A CALIBRATION REPORTS

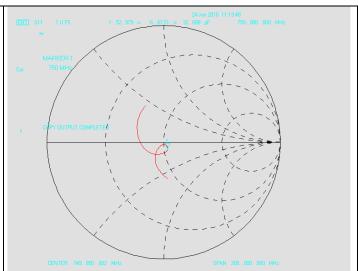
SARTIMO Calibration Certificate-Extended Dipole Calibrations

According to KDB865664 D01, Dipoles must be recalibrated at least once every three years; however, immediate re-calibration is required for following conditions. The test laboratory must ensure that the required supporting information and documentation have been included in the SAR report to qualify for extended 3-year calibration interval.

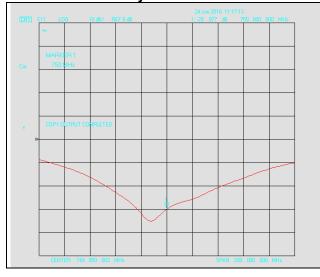
- 1) When the most recent return-loss, measured at least annually, deviates by more than 20% from the previous measurement (i.e. 0.2 of the dB value) or not meeting the required -20 dB return-loss specification
- 2) When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5Ω from the previous measurement

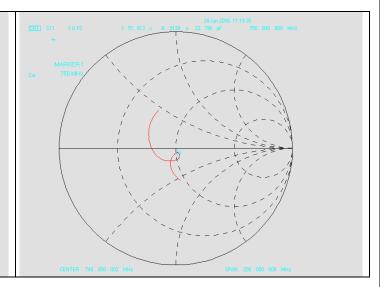
Dipole Verification plot: SID 750 SN 26/14 DIP 0G750-325 750MHz for Head:





750MHz for Body:

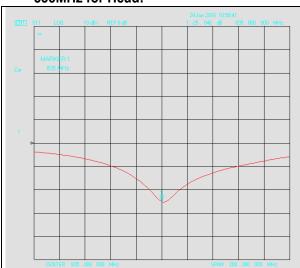


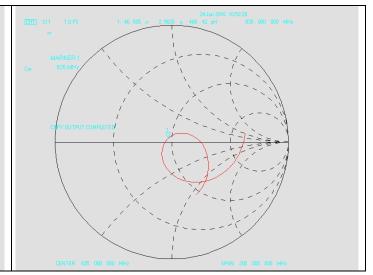




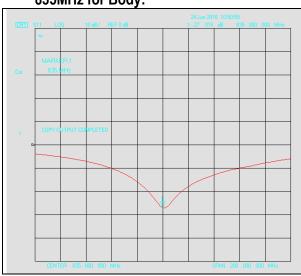
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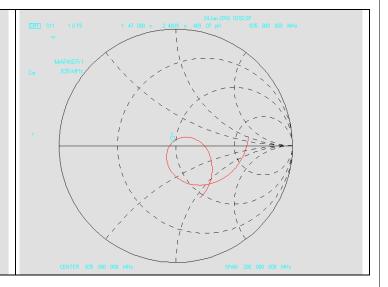
Dipole Verification plot: SID 835 SN 18/11 DIPC150 835MHz for Head:



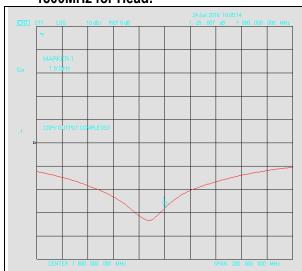


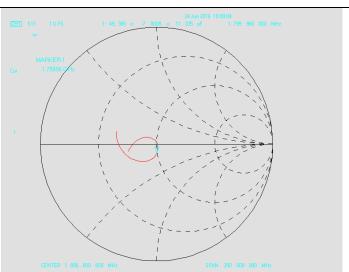
835MHz for Body:





Dipole Verification plot: SID 1800 SN 18/11 DIPF152 1800MHz for Head:

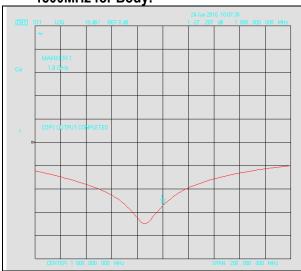


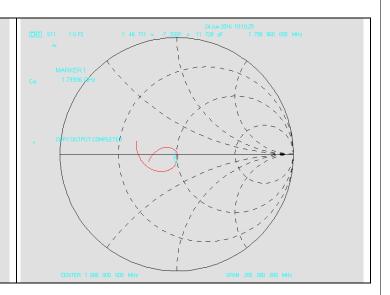




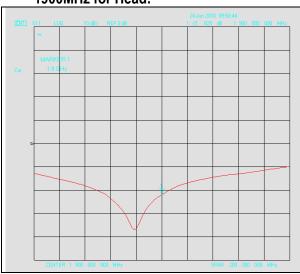
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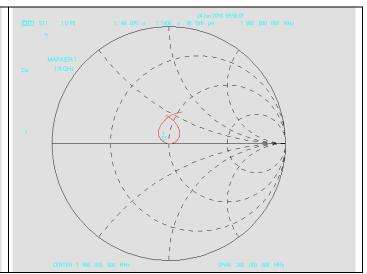
1800MHz for Body:



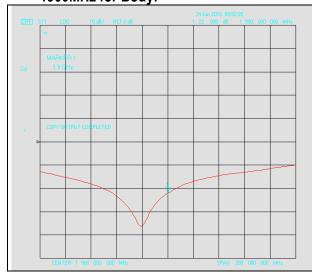


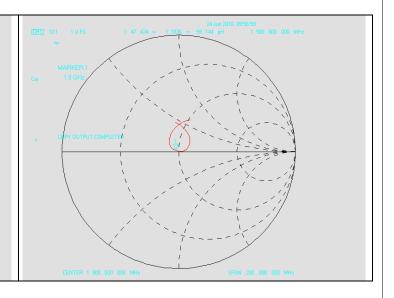
Dipole Verification plot: SID 1900 SN 18/11 DIPG153 1900MHz for Head:





1900MHz for Body:

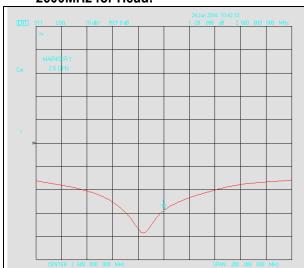


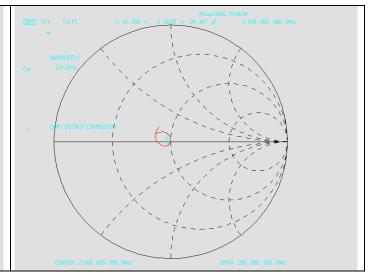




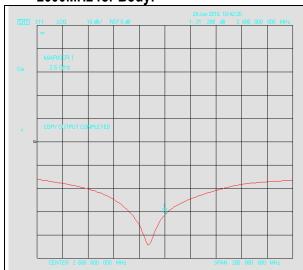
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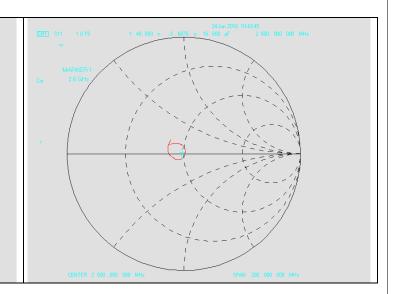
Dipole Verification plot: SID 2600 SN 26/14 DIP 2G600-326 2600MHz for Head:





2600MHz for Body:





| SID 750 SN 26/14 DIP 0G750-325 For Head | | | | | |
|---|-----------------|--------------------------|-------------------------------|----------------|----------------|
| Return- Loss (dB) | Deviate (dB) | Real Impedance (Ω) | Imaginary Impedance (Ω) | Deviate (Ω) | Calibrate Date |
| -32.51 | | | 50 | | 07/03/2014 |
| -30.468 | -2.042 | 52.979 | 50 | 2.979 | 06/24/2016 |
| SID 750 SN 26/14 DIP 0G750-325 For Body | | | | | |
| -29.877 | -2.633 | 51.813 | 50 | 1.813 | 06/24/2016 |



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| SID 835 SN 18/11 DIPC150 For Head | | | | | | |
|-----------------------------------|-----------------|--------------------------|-------------------------------|----------------|----------------|--|
| Return- Loss (dB) | Deviate (dB) | Real Impedance (Ω) | Imaginary Impedance (Ω) | Deviate (Ω) | Calibrate Date | |
| -26.34 | | | 50 | | 06/018/2014 | |
| -25.046 | -1.294 | 47.008 | 50 | -2.992 | 06/24/2016 | |
| SID 835 SN 18/11 DIPC150 For Body | | | | | | |
| -27.015 | 0.675 | 46.605 | 50 | -3.395 | 06/24/2016 | |

| SID 1800 SN 18/11 DIPF152 For Head | | | | | | |
|------------------------------------|-----------------|--------------------------|-------------------------------|----------------|----------------|--|
| Return- Loss (dB) | Deviate (dB) | Real Impedance (Ω) | Imaginary Impedance (Ω) | Deviate (Ω) | Calibrate Date | |
| -28.21 | | | 50 | | 06/18/2014 | |
| -28.007 | -0.203 | 49.365 | 50 | -0.635 | 06/24/2016 | |
| SID 1800 SN 18/11 DIPF152 For Body | | | | | | |
| -27.207 | -1.003 | 48.711 | 50 | -1.289 | 06/24/2016 | |

| SID 1900 SN 18/11 DIPG153 For Head | | | | | | |
|------------------------------------|-----------------|--------------------------|-------------------------------|----------------|----------------|--|
| Return- Loss (dB) | Deviate (dB) | Real Impedance (Ω) | Imaginary Impedance (Ω) | Deviate (Ω) | Calibrate Date | |
| -21.22 | | | 50 | | 06/18/2014 | |
| -21.829 | 0.609 | 46.070 | 50 | -3.930 | 06/24/2016 | |
| SID 1900 SN 18/11 DIPG153 For Body | | | | | | |
| -22.008 | 0.788 | 47.424 | 50 | -2.576 | 06/24/2016 | |

| SID 2600 SN 26/14 DIP 2G600-326 For Head | | | | | | |
|--|-----------------|--------------------------|-------------------------------|----------------|----------------|--|
| Return- Loss (dB) | Deviate (dB) | Real Impedance (Ω) | Imaginary Impedance (Ω) | Deviate (Ω) | Calibrate Date | |
| -30.77 | | | 50 | | 07/03/2014 | |
| -28.896 | -1.874 | 47.834 | 50 | -2.166 | 06/24/2016 | |
| SID 2600 SN 26/14 DIP 2G600-326 For Body | | | | | | |
| -31.288 | 0.518 | 48.699 | 50 | -1.301 | 06/24/2016 | |

According to up table, the return loss is <-20dB, deviates by less than 20% from the previous measurement; the real Impedance are all within 5 Ω compared to the required Impedance (50 Ω).