

**APPENDIX H- CONDUCTED POWER MEASUREMENTS, LTE, COMMAND LINE**

Table H.1 Conducted Power Measurements – LTE Band 2, 20MHz BW

| LTE Conducted Power Measurement - Command Line |      |           |                           |       |                           |       |                            |       |                                 |
|------------------------------------------------|------|-----------|---------------------------|-------|---------------------------|-------|----------------------------|-------|---------------------------------|
| LTE Band:                                      |      | 2         | Channel Bandwidth:        |       |                           |       |                            |       | 20MHz                           |
| Lower Band Edge                                |      | 1850(MHz) | Upper Band Edge:          |       |                           |       |                            |       | 1910(MHz)                       |
| Modulation                                     | RB   | RB        | Low<br>18700<br>1860(MHz) |       | Mid<br>18900<br>1880(MHz) |       | High<br>19100<br>1900(MHz) |       | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset    | Conducted Power (dBm)*    |       |                           |       |                            |       | RB<br>Pos                       |
|                                                |      |           | Meas.                     | Δ     | Meas.                     | Δ     | Meas.                      | Δ     |                                 |
| QPSK                                           | 1    | 0         | 23.48                     | -0.89 | 23.91                     | -0.46 | 24.28                      | -0.09 | Lower                           |
|                                                | 1    | 50        | 23.28                     | -1.09 | 23.79                     | -0.58 | 23.56                      | -0.81 | Mid                             |
|                                                | 1    | 99        | 23.40                     | -0.97 | 23.74                     | -0.63 | 23.83                      | -0.54 | Upper                           |
|                                                | 50   | 0         | 23.94                     | -0.43 | 24.18                     | -0.19 | 24.36                      | -0.01 | Lower                           |
|                                                | 50   | 25        | 23.81                     | -0.56 | 24.14                     | -0.23 | 24.37                      | 0.00  | Mid                             |
|                                                | 50   | 50        | 23.73                     | -0.64 | 24.16                     | -0.21 | 24.28                      | -0.09 | Upper                           |
|                                                | 100  | 0         | 23.83                     | -0.54 | 24.06                     | -0.31 | 24.34                      | -0.03 | Mid                             |
| 16QAM                                          | 50   | 25        | 23.48                     | -0.89 | 23.73                     | -0.64 | 23.84                      | -0.53 | Mid                             |
| 64QAM                                          | 1    | 0         | 22.80                     | -1.57 | 22.87                     | -1.50 | 23.48                      | -0.89 | Lower                           |
|                                                | 1    | 50        | 22.53                     | -1.84 | 22.89                     | -1.48 | 22.96                      | -1.41 | Mid                             |
|                                                | 1    | 99        | 22.83                     | -1.54 | 22.55                     | -1.82 | 23.20                      | -1.17 | Upper                           |
|                                                | 50   | 0         | 22.57                     | -1.80 | 22.68                     | -1.69 | 22.91                      | -1.46 | Lower                           |
|                                                | 50   | 25        | 22.53                     | -1.84 | 22.63                     | -1.74 | 22.90                      | -1.47 | Mid                             |
|                                                | 50   | 50        | 22.46                     | -1.91 | 22.66                     | -1.71 | 22.95                      | -1.42 | Upper                           |
|                                                | 100  | 0         | 22.57                     | -1.80 | 22.62                     | -1.75 | 22.80                      | -1.57 | Mid                             |
| Maximum Conducted Power Measured:              |      |           |                           |       |                           |       |                            |       | 24.37                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.2 Conducted Power Measurements – LTE Band 4, 20MHz BW

| LTE Conducted Power Measurement - Command Line |      |           |                           |       |                             |       |                            |       |                                 |
|------------------------------------------------|------|-----------|---------------------------|-------|-----------------------------|-------|----------------------------|-------|---------------------------------|
| LTE Band:                                      |      | 4         | Channel Bandwidth:        |       |                             |       |                            |       | 20MHz                           |
| Lower Band Edge                                |      | 1710(MHz) | Upper Band Edge:          |       |                             |       |                            |       | 1755(MHz)                       |
| Modulation                                     | RB   | RB        | Low<br>20050<br>1720(MHz) |       | Mid<br>20175<br>1732.5(MHz) |       | High<br>20300<br>1745(MHz) |       | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset    | Conducted Power (dBm)*    |       |                             |       |                            |       | RB                              |
|                                                |      |           | Meas.                     | Δ     | Meas.                       | Δ     | Meas.                      | Δ     | Pos                             |
| QPSK                                           | 1    | 0         | 23.11                     | -0.24 | 23.06                       | -0.29 | 23.34                      | -0.01 | Lower                           |
|                                                | 1    | 50        | 23.12                     | -0.23 | 22.60                       | -0.75 | 23.30                      | -0.05 | Mid                             |
|                                                | 1    | 99        | 23.08                     | -0.27 | 22.83                       | -0.52 | 23.02                      | -0.33 | Upper                           |
|                                                | 50   | 0         | 23.32                     | -0.03 | 23.25                       | -0.10 | 23.31                      | -0.04 | Lower                           |
|                                                | 50   | 25        | 23.13                     | -0.22 | 23.28                       | -0.07 | 23.35                      | 0.00  | Mid                             |
|                                                | 50   | 50        | 23.14                     | -0.21 | 23.28                       | -0.07 | 23.28                      | -0.07 | Upper                           |
|                                                | 100  | 0         | 23.19                     | -0.16 | 23.21                       | -0.14 | 23.21                      | -0.14 | Mid                             |
| 16QAM                                          | 50   | 25        | 22.80                     | -0.55 | 22.81                       | -0.54 | 22.92                      | -0.43 | Mid                             |
| 64QAM                                          | 1    | 0         | 22.65                     | -0.70 | 22.77                       | -0.58 | 23.04                      | -0.31 | Lower                           |
|                                                | 1    | 50        | 22.32                     | -1.03 | 22.50                       | -0.85 | 22.74                      | -0.61 | Mid                             |
|                                                | 1    | 99        | 22.48                     | -0.87 | 22.71                       | -0.64 | 22.82                      | -0.53 | Upper                           |
|                                                | 50   | 0         | 21.90                     | -1.45 | 21.91                       | -1.44 | 23.03                      | -0.32 | Lower                           |
|                                                | 50   | 25        | 21.63                     | -1.72 | 21.82                       | -1.53 | 22.04                      | -1.31 | Mid                             |
|                                                | 50   | 50        | 21.61                     | -1.74 | 21.86                       | -1.49 | 21.98                      | -1.37 | Upper                           |
|                                                | 100  | 0         | 21.75                     | -1.60 | 21.93                       | -1.42 | 22.06                      | -1.29 | Mid                             |
| Maximum Conducted Power Measured:              |      |           |                           |       |                             |       |                            |       | 23.35                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.3 Conducted Power Measurements – LTE Band 5, 10MHz BW

| LTE Conducted Power Measurement - Command Line |      |          |                          |       |                            |       |                           |       |                                 |
|------------------------------------------------|------|----------|--------------------------|-------|----------------------------|-------|---------------------------|-------|---------------------------------|
| LTE Band:                                      |      | 5        | Channel Bandwidth:       |       |                            |       |                           |       | 10MHz                           |
| Lower Band Edge                                |      | 824(MHz) | Upper Band Edge:         |       |                            |       |                           |       | 849(MHz)                        |
| Modulation                                     | RB   | RB       | Low<br>20450<br>829(MHz) |       | Mid<br>20525<br>836.5(MHz) |       | High<br>20600<br>844(MHz) |       | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset   | Conducted Power (dBm)*   |       |                            |       |                           |       | RB<br>Pos                       |
|                                                |      |          | Meas.                    | Δ     | Meas.                      | Δ     | Meas.                     | Δ     |                                 |
| QPSK                                           | 1    | 0        | 23.92                    | -0.69 | 23.85                      | -0.76 | 24.02                     | -0.59 | Lower                           |
|                                                | 1    | 25       | 23.75                    | -0.86 | 23.90                      | -0.71 | 24.07                     | -0.54 | Mid                             |
|                                                | 1    | 49       | 23.65                    | -0.96 | 23.85                      | -0.76 | 23.79                     | -0.82 | Upper                           |
|                                                | 25   | 0        | 24.41                    | -0.20 | 24.52                      | -0.09 | 24.56                     | -0.05 | Lower                           |
|                                                | 25   | 12       | 24.22                    | -0.39 | 24.42                      | -0.19 | 24.12                     | -0.49 | Mid                             |
|                                                | 25   | 25       | 24.32                    | -0.29 | 24.47                      | -0.14 | 24.47                     | -0.14 | Upper                           |
|                                                | 50   | 0        | 24.58                    | -0.03 | 24.52                      | -0.09 | 24.61                     | 0.00  | Mid                             |
| 16QAM                                          | 25   | 12       | 23.70                    | -0.91 | 23.78                      | -0.83 | 23.71                     | -0.90 | Mid                             |
| 64QAM                                          | 1    | 0        | 23.52                    | -1.09 | 23.47                      | -1.14 | 23.72                     | -0.89 | Lower                           |
|                                                | 1    | 25       | 23.70                    | -0.91 | 23.78                      | -0.83 | 23.76                     | -0.85 | Mid                             |
|                                                | 1    | 49       | 23.48                    | -1.13 | 23.64                      | -0.97 | 23.27                     | -1.34 | Upper                           |
|                                                | 25   | 0        | 22.84                    | -1.77 | 23.07                      | -1.54 | 23.02                     | -1.59 | Lower                           |
|                                                | 25   | 12       | 22.81                    | -1.80 | 22.91                      | -1.70 | 23.02                     | -1.59 | Mid                             |
|                                                | 25   | 25       | 22.85                    | -1.76 | 22.95                      | -1.66 | 22.82                     | -1.79 | Upper                           |
|                                                | 50   | 0        | 22.94                    | -1.67 | 22.92                      | -1.69 | 23.01                     | -1.60 | Mid                             |
| Maximum Conducted Power Measured:              |      |          |                          |       |                            |       |                           |       | 24.61                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.4 Conducted Power Measurements – LTE Band 12, 10 MHz BW

| LTE Conducted Power Measurement - Command Line |      |          |                          |       |                            |       |                           |       |                                 |
|------------------------------------------------|------|----------|--------------------------|-------|----------------------------|-------|---------------------------|-------|---------------------------------|
| LTE Band:                                      |      | 12       | Channel Bandwidth:       |       |                            |       |                           |       | 10MHz                           |
| Lower Band Edge                                |      | 699(MHz) | Upper Band Edge:         |       |                            |       |                           |       | 716(MHz)                        |
| Modulation                                     | RB   | RB       | Low<br>23060<br>704(MHz) |       | Mid<br>23095<br>707.5(MHz) |       | High<br>23130<br>711(MHz) |       | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset   | Conducted Power (dBm)*   |       |                            |       |                           |       | RB<br>Pos                       |
|                                                |      |          | Meas.                    | Δ     | Meas.                      | Δ     | Meas.                     | Δ     |                                 |
| QPSK                                           | 1    | 0        | 23.11                    | -0.14 | 23.07                      | -0.18 | 22.94                     | -0.31 | Lower                           |
|                                                | 1    | 25       | 22.83                    | -0.42 | 23.03                      | -0.22 | 22.90                     | -0.35 | Mid                             |
|                                                | 1    | 49       | 22.89                    | -0.36 | 22.97                      | -0.28 | 22.78                     | -0.47 | Upper                           |
|                                                | 25   | 0        | 23.12                    | -0.13 | 23.12                      | -0.13 | 23.06                     | -0.19 | Lower                           |
|                                                | 25   | 12       | 23.02                    | -0.23 | 23.25                      | 0.00  | 22.98                     | -0.27 | Mid                             |
|                                                | 25   | 25       | 22.97                    | -0.28 | 23.21                      | -0.04 | 22.98                     | -0.27 | Upper                           |
|                                                | 50   | 0        | 23.14                    | -0.11 | 23.14                      | -0.11 | 23.18                     | -0.07 | Mid                             |
| 16QAM                                          | 25   | 12       | 22.64                    | -0.61 | 22.81                      | -0.44 | 22.64                     | -0.61 | Mid                             |
| 64QAM                                          | 1    | 0        | 22.72                    | -0.53 | 22.43                      | -0.82 | 22.25                     | -1.00 | Lower                           |
|                                                | 1    | 25       | 22.67                    | -0.58 | 22.47                      | -0.78 | 22.32                     | -0.93 | Mid                             |
|                                                | 1    | 49       | 22.32                    | -0.93 | 22.48                      | -0.77 | 22.19                     | -1.06 | Upper                           |
|                                                | 25   | 0        | 21.71                    | -1.54 | 21.58                      | -1.67 | 21.93                     | -1.32 | Lower                           |
|                                                | 25   | 12       | 21.54                    | -1.71 | 21.04                      | -2.21 | 22.01                     | -1.24 | Mid                             |
|                                                | 25   | 25       | 21.54                    | -1.71 | 21.67                      | -1.58 | 21.89                     | -1.36 | Upper                           |
|                                                | 50   | 0        | 21.71                    | -1.54 | 21.68                      | -1.57 | 21.97                     | -1.28 | Mid                             |
| Maximum Conducted Power Measured:              |      |          |                          |       |                            |       |                           |       | 23.25                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.5 Conducted Power Measurements – LTE Band 13, 10MHz BW

| LTE Conducted Power Measurement - Command Line |      |          |                          |   |                          |       |                           |   |                                 |
|------------------------------------------------|------|----------|--------------------------|---|--------------------------|-------|---------------------------|---|---------------------------------|
| LTE Band:                                      |      | 13       | Channel Bandwidth:       |   |                          |       |                           |   | 10MHz                           |
| Lower Band Edge                                |      | 777(MHz) | Upper Band Edge:         |   |                          |       |                           |   | 787(MHz)                        |
| Modulation                                     | RB   | RB       | Low<br>23230<br>782(MHz) |   | Mid<br>23230<br>782(MHz) |       | High<br>23230<br>782(MHz) |   | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset   | Conducted Power (dBm)*   |   |                          |       |                           |   | RB<br>Pos                       |
|                                                |      |          | Meas.                    | Δ | Meas.                    | Δ     | Meas.                     | Δ |                                 |
| QPSK                                           | 1    | 0        |                          |   | 23.90                    | -0.14 |                           |   | Lower                           |
|                                                | 1    | 25       |                          |   | 23.93                    | -0.11 |                           |   | Mid                             |
|                                                | 1    | 49       |                          |   | 23.73                    | -0.31 |                           |   | Upper                           |
|                                                | 25   | 0        |                          |   | 24.02                    | -0.02 |                           |   | Lower                           |
|                                                | 25   | 12       |                          |   | 23.86                    | -0.18 |                           |   | Mid                             |
|                                                | 25   | 25       |                          |   | 23.92                    | -0.12 |                           |   | Upper                           |
|                                                | 50   | 0        |                          |   | 24.04                    | 0.00  |                           |   | Mid                             |
| 16QAM                                          | 25   | 12       |                          |   | 23.50                    | -0.54 |                           |   | Mid                             |
| 64QAM                                          | 1    | 0        |                          |   | 23.06                    | -0.98 |                           |   | Lower                           |
|                                                | 1    | 25       |                          |   | 23.25                    | -0.79 |                           |   | Mid                             |
|                                                | 1    | 49       |                          |   | 23.21                    | -0.83 |                           |   | Upper                           |
|                                                | 25   | 0        |                          |   | 22.78                    | -1.26 |                           |   | Lower                           |
|                                                | 25   | 12       |                          |   | 22.57                    | -1.47 |                           |   | Mid                             |
|                                                | 25   | 25       |                          |   | 22.83                    | -1.21 |                           |   | Upper                           |
|                                                | 50   | 0        |                          |   | 22.80                    | -1.24 |                           |   | Mid                             |
| Maximum Conducted Power Measured:              |      |          |                          |   |                          |       |                           |   | 24.04                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.6 Conducted Power Measurements – LTE Band 14, 10MHz BW

| LTE Conducted Power Measurement - Command Line |      |          |                          |   |                          |       |                           |   |                                 |
|------------------------------------------------|------|----------|--------------------------|---|--------------------------|-------|---------------------------|---|---------------------------------|
| LTE Band:                                      |      | 14       | Channel Bandwidth:       |   |                          |       |                           |   | 10MHz                           |
| Lower Band Edge                                |      | 788(MHz) | Upper Band Edge:         |   |                          |       |                           |   | 798(MHz)                        |
| Modulation                                     | RB   | RB       | Low<br>23330<br>793(MHz) |   | Mid<br>23330<br>793(MHz) |       | High<br>23330<br>793(MHz) |   | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset   | Conducted Power (dBm)*   |   |                          |       |                           |   | RB<br>Pos                       |
|                                                |      |          | Meas.                    | Δ | Meas.                    | Δ     | Meas.                     | Δ |                                 |
| QPSK                                           | 1    | 0        |                          |   | 24.01                    | -0.11 |                           |   | Lower                           |
|                                                | 1    | 25       |                          |   | 23.93                    | -0.19 |                           |   | Mid                             |
|                                                | 1    | 49       |                          |   | 24.00                    | -0.12 |                           |   | Upper                           |
|                                                | 25   | 0        |                          |   | 24.01                    | -0.11 |                           |   | Lower                           |
|                                                | 25   | 12       |                          |   | 24.00                    | -0.12 |                           |   | Mid                             |
|                                                | 25   | 25       |                          |   | 24.12                    | 0.00  |                           |   | Upper                           |
|                                                | 50   | 0        |                          |   | 24.07                    | -0.05 |                           |   | Mid                             |
| 16QAM                                          | 25   | 12       |                          |   | 23.73                    | -0.39 |                           |   | Mid                             |
| 64QAM                                          | 1    | 0        |                          |   | 23.27                    | -0.85 |                           |   | Lower                           |
|                                                | 1    | 25       |                          |   | 23.35                    | -0.77 |                           |   | Mid                             |
|                                                | 1    | 49       |                          |   | 23.42                    | -0.70 |                           |   | Upper                           |
|                                                | 25   | 0        |                          |   | 22.90                    | -1.22 |                           |   | Lower                           |
|                                                | 25   | 12       |                          |   | 22.91                    | -1.21 |                           |   | Mid                             |
|                                                | 25   | 25       |                          |   | 22.98                    | -1.14 |                           |   | Upper                           |
|                                                | 50   | 0        |                          |   | 22.93                    | -1.19 |                           |   | Mid                             |
| Maximum Conducted Power Measured:              |      |          |                          |   |                          |       |                           |   | 24.12                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.

Table H.7 Conducted Power Measurements – LTE Band 66, 20MHz BW

| LTE Conducted Power Measurement - Command Line |      |           |                            |       |                            |       |                             |       |                                 |
|------------------------------------------------|------|-----------|----------------------------|-------|----------------------------|-------|-----------------------------|-------|---------------------------------|
| LTE Band:                                      |      | 66        | Channel Bandwidth:         |       |                            |       |                             |       | 20MHz                           |
| Lower Band Edge                                |      | 1710(MHz) | Upper Band Edge:           |       |                            |       |                             |       | 1780(MHz)                       |
| Modulation                                     | RB   | RB        | Low<br>132072<br>1720(MHz) |       | Mid<br>132322<br>1745(MHz) |       | High<br>132572<br>1770(MHz) |       | Chan Pos<br>EARFCN<br>Chan Freq |
|                                                | Size | Offset    | Conducted Power (dBm)*     |       |                            |       |                             |       | RB<br>Pos                       |
|                                                |      |           | Meas.                      | Δ     | Meas.                      | Δ     | Meas.                       | Δ     |                                 |
| QPSK                                           | 1    | 0         | 22.95                      | -0.49 | 22.66                      | -0.78 | 23.09                       | -0.35 | Lower                           |
|                                                | 1    | 50        | 22.86                      | -0.58 | 22.31                      | -1.13 | 23.05                       | -0.39 | Mid                             |
|                                                | 1    | 99        | 22.45                      | -0.99 | 22.38                      | -1.06 | 22.81                       | -0.63 | Upper                           |
|                                                | 50   | 0         | 23.44                      | 0.00  | 22.80                      | -0.64 | 22.79                       | -0.65 | Lower                           |
|                                                | 50   | 25        | 23.32                      | -0.12 | 22.81                      | -0.63 | 22.61                       | -0.83 | Mid                             |
|                                                | 50   | 50        | 23.02                      | -0.42 | 22.57                      | -0.87 | 22.58                       | -0.86 | Upper                           |
|                                                | 100  | 0         | 22.76                      | -0.68 | 22.80                      | -0.64 | 22.68                       | -0.76 | Mid                             |
| 16QAM                                          | 50   | 25        | 22.65                      | -0.79 | 22.27                      | -1.17 | 22.24                       | -1.20 | Mid                             |
| 64QAM                                          | 1    | 0         | 22.45                      | -0.99 | 22.15                      | -1.29 | 22.22                       | -1.22 | Lower                           |
|                                                | 1    | 50        | 22.07                      | -1.37 | 21.94                      | -1.50 | 22.07                       | -1.37 | Mid                             |
|                                                | 1    | 99        | 22.08                      | -1.36 | 22.14                      | -1.30 | 21.95                       | -1.49 | Upper                           |
|                                                | 50   | 0         | 21.29                      | -2.15 | 21.30                      | -2.14 | 21.31                       | -2.13 | Lower                           |
|                                                | 50   | 25        | 21.29                      | -2.15 | 21.26                      | -2.18 | 21.16                       | -2.28 | Mid                             |
|                                                | 50   | 50        | 21.22                      | -2.22 | 21.10                      | -2.34 | 21.11                       | -2.33 | Upper                           |
|                                                | 100  | 0         | 21.36                      | -2.08 | 21.34                      | -2.10 | 21.22                       | -2.22 | Mid                             |
| Maximum Conducted Power Measured:              |      |           |                            |       |                            |       |                             |       | 23.44                           |

\* Relative to the maximum measured conducted power for this BW, across all channels, RBs, RB Offsets and modulations.