

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 1.39 | 70.50 | 17.86 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 1.94 | 76.74 | 21.24 |      | 110.0 |         |
|           |                                                | Z | 1.58 | 72.59 | 19.16 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.34 | 66.44 | 16.20 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.45 | 66.80 | 16.45 |      | 100.0 |         |
|           |                                                | Z | 4.46 | 66.35 | 16.27 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.35 | 66.52 | 16.28 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.46 | 66.88 | 16.54 |      | 100.0 |         |
|           |                                                | Z | 4.47 | 66.44 | 16.36 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.58 | 66.71 | 16.48 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.69 | 67.07 | 16.73 |      | 100.0 |         |
|           |                                                | Z | 4.73 | 66.68 | 16.59 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.45 | 66.52 | 16.53 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.56 | 66.89 | 16.79 |      | 100.0 |         |
|           |                                                | Z | 4.60 | 66.53 | 16.67 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.45 | 66.48 | 16.65 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.56 | 66.86 | 16.93 |      | 100.0 |         |
|           |                                                | Z | 4.61 | 66.54 | 16.84 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 4.73 | 66.77 | 17.13 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.84 | 67.12 | 17.40 |      | 100.0 |         |
|           |                                                | Z | 4.90 | 66.81 | 17.33 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 4.76 | 66.66 | 17.29 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 67.00 | 17.55 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 66.73 | 17.50 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 4.81 | 66.68 | 17.46 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.92 | 67.01 | 17.74 |      | 100.0 |         |
|           |                                                | Z | 5.00 | 66.78 | 17.71 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.62 | 66.50 | 17.03 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.72 | 66.82 | 17.28 |      | 100.0 |         |
|           |                                                | Z | 4.75 | 66.47 | 17.18 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.56 | 66.67 | 17.18 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 67.03 | 17.45 |      | 100.0 |         |
|           |                                                | Z | 4.70 | 66.70 | 17.36 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.61 | 66.83 | 17.49 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.71 | 67.17 | 17.77 |      | 100.0 |         |
|           |                                                | Z | 4.75 | 66.85 | 17.68 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.62 | 66.77 | 17.64 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.70 | 67.09 | 17.92 |      | 100.0 |         |
|           |                                                | Z | 4.74 | 66.75 | 17.83 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.63 | 66.75 | 17.86 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.71 | 67.06 | 18.15 |      | 90.0  |         |
|           |                                                | Z | 4.76 | 66.76 | 18.09 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.68 | 66.63 | 18.04 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.74 | 66.91 | 18.31 |      | 90.0  |         |
|           |                                                | Z | 4.79 | 66.61 | 18.24 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.71 | 66.72 | 18.15 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.77 | 66.99 | 18.42 |      | 90.0  |         |
|           |                                                | Z | 4.82 | 66.69 | 18.35 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.41   | 60.41  | 6.86  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.64   | 64.39  | 10.26 |      | 150.0 |         |
|           |                                                     | Z | 0.51   | 61.51  | 8.28  |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 6.37   | 60.67  | 1.90  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.58   | 60.00  | 3.05  |      | 80.0  |         |
|           |                                                     | Z | 0.60   | 60.00  | 3.10  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 103.19 | 20.57 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 106.40 | 21.88 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 108.67 | 23.14 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.61   | 66.98  | 14.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.83   | 68.94  | 15.87 |      | 150.0 |         |
|           |                                                     | Z | 1.61   | 66.33  | 14.36 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.57   | 66.91  | 14.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.80   | 68.88  | 15.85 |      | 150.0 |         |
|           |                                                     | Z | 1.57   | 66.26  | 14.32 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 5.11   | 79.85  | 27.95 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 6.18   | 86.42  | 31.49 |      | 60.0  |         |
|           |                                                     | Z | 5.66   | 82.29  | 29.29 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 2.72   | 68.86  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.98   | 70.42  | 16.85 |      | 150.0 |         |
|           |                                                     | Z | 2.77   | 68.66  | 15.78 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 2.94   | 66.71  | 15.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.09   | 67.54  | 15.94 |      | 150.0 |         |
|           |                                                     | Z | 3.00   | 66.60  | 15.35 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.05   | 66.78  | 15.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.19   | 67.54  | 16.04 |      | 150.0 |         |
|           |                                                     | Z | 3.11   | 66.65  | 15.49 |      | 150.0 |         |
| 10103-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 4.63   | 72.33  | 19.10 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.31   | 74.95  | 20.40 |      | 65.0  |         |
|           |                                                     | Z | 5.01   | 73.33  | 19.72 |      | 65.0  |         |
| 10104-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 4.71   | 70.15  | 18.78 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.12   | 71.87  | 19.74 |      | 65.0  |         |
|           |                                                     | Z | 4.99   | 70.84  | 19.32 |      | 65.0  |         |
| 10105-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 4.62   | 69.52  | 18.79 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.98   | 71.08  | 19.67 |      | 65.0  |         |
|           |                                                     | Z | 4.89   | 70.18  | 19.31 |      | 65.0  |         |
| 10108-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.32   | 68.23  | 15.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.56   | 69.77  | 16.68 |      | 150.0 |         |
|           |                                                     | Z | 2.39   | 67.99  | 15.57 |      | 150.0 |         |
| 10109-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.57   | 66.62  | 15.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.73   | 67.56  | 15.82 |      | 150.0 |         |
|           |                                                     | Z | 2.64   | 66.42  | 15.13 |      | 150.0 |         |
| 10110-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 1.82   | 67.31  | 15.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.06   | 69.08  | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 1.89   | 67.03  | 14.94 |      | 150.0 |         |
| 10111-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.27   | 67.56  | 15.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.50   | 68.95  | 16.11 |      | 150.0 |         |
|           |                                                     | Z | 2.32   | 67.14  | 15.12 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.70 | 66.75 | 15.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.86 | 67.62 | 15.89 |      | 150.0 |         |
|           |                                                | Z | 2.77 | 66.52 | 15.24 |      | 150.0 |         |
| 10113-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.41 | 67.80 | 15.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.64 | 69.12 | 16.24 |      | 150.0 |         |
|           |                                                | Z | 2.47 | 67.38 | 15.32 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 4.85 | 66.91 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.92 | 67.20 | 16.42 |      | 150.0 |         |
|           |                                                | Z | 4.93 | 66.80 | 16.23 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.08 | 66.97 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.16 | 67.24 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.19 | 66.91 | 16.30 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 4.91 | 67.06 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.00 | 67.37 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.02 | 67.01 | 16.26 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 4.82 | 66.80 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.91 | 67.14 | 16.41 |      | 150.0 |         |
|           |                                                | Z | 4.92 | 66.75 | 16.22 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.15 | 67.18 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.23 | 67.42 | 16.54 |      | 150.0 |         |
|           |                                                | Z | 5.28 | 67.15 | 16.43 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 4.92 | 67.09 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.00 | 67.37 | 16.45 |      | 150.0 |         |
|           |                                                | Z | 5.02 | 67.00 | 16.27 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.06 | 66.79 | 15.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.21 | 67.57 | 15.95 |      | 150.0 |         |
|           |                                                | Z | 3.13 | 66.66 | 15.40 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.19 | 67.01 | 15.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.34 | 67.73 | 16.14 |      | 150.0 |         |
|           |                                                | Z | 3.26 | 66.83 | 15.61 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.53 | 66.71 | 13.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.82 | 69.13 | 15.54 |      | 150.0 |         |
|           |                                                | Z | 1.62 | 66.60 | 14.09 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 1.93 | 66.97 | 13.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.31 | 69.49 | 15.29 |      | 150.0 |         |
|           |                                                | Z | 2.06 | 67.05 | 14.07 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 1.68 | 64.38 | 11.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.94 | 66.13 | 13.09 |      | 150.0 |         |
|           |                                                | Z | 1.85 | 64.82 | 12.42 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 0.61 | 60.00 | 6.25  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.75 | 61.41 | 7.98  |      | 150.0 |         |
|           |                                                | Z | 0.75 | 60.75 | 7.63  |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 0.82 | 60.00 | 5.83  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.92 | 60.25 | 6.35  |      | 150.0 |         |
|           |                                                | Z | 1.12 | 61.59 | 7.98  |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 0.84 | 60.00 | 5.89  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.96 | 60.55 | 6.61  |      | 150.0 |         |
|           |                                                | Z | 1.20 | 62.21 | 8.43  |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.58 | 66.69 | 15.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.74 | 67.63 | 15.87 |      | 150.0 |         |
|           |                                            | Z | 2.65 | 66.49 | 15.18 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 2.71 | 66.82 | 15.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87 | 67.69 | 15.94 |      | 150.0 |         |
|           |                                            | Z | 2.78 | 66.58 | 15.28 |      | 150.0 |         |
| 10151-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 4.58 | 74.10 | 19.83 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.45 | 77.40 | 21.46 |      | 65.0  |         |
|           |                                            | Z | 5.00 | 75.19 | 20.56 |      | 65.0  |         |
| 10152-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 4.21 | 69.89 | 18.16 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.65 | 71.84 | 19.30 |      | 65.0  |         |
|           |                                            | Z | 4.51 | 70.68 | 18.85 |      | 65.0  |         |
| 10153-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 4.55 | 71.06 | 19.09 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.01 | 72.96 | 20.18 |      | 65.0  |         |
|           |                                            | Z | 4.85 | 71.76 | 19.74 |      | 65.0  |         |
| 10154-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 1.85 | 67.65 | 15.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.10 | 69.48 | 16.44 |      | 150.0 |         |
|           |                                            | Z | 1.92 | 67.37 | 15.16 |      | 150.0 |         |
| 10155-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.27 | 67.61 | 15.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.50 | 69.00 | 16.15 |      | 150.0 |         |
|           |                                            | Z | 2.33 | 67.17 | 15.15 |      | 150.0 |         |
| 10156-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.31 | 65.90 | 12.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.64 | 68.88 | 14.94 |      | 150.0 |         |
|           |                                            | Z | 1.43 | 66.11 | 13.38 |      | 150.0 |         |
| 10157-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 1.43 | 63.96 | 10.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.74 | 66.31 | 12.74 |      | 150.0 |         |
|           |                                            | Z | 1.63 | 64.73 | 11.94 |      | 150.0 |         |
| 10158-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.42 | 67.89 | 15.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.65 | 69.22 | 16.31 |      | 150.0 |         |
|           |                                            | Z | 2.48 | 67.46 | 15.37 |      | 150.0 |         |
| 10159-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 1.49 | 64.13 | 11.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.82 | 66.66 | 12.95 |      | 150.0 |         |
|           |                                            | Z | 1.70 | 65.00 | 12.13 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.41 | 67.89 | 15.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.60 | 69.05 | 16.44 |      | 150.0 |         |
|           |                                            | Z | 2.48 | 67.64 | 15.56 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.59 | 66.74 | 15.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.76 | 67.68 | 15.82 |      | 150.0 |         |
|           |                                            | Z | 2.66 | 66.50 | 15.14 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 2.70 | 67.00 | 15.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87 | 67.91 | 15.97 |      | 150.0 |         |
|           |                                            | Z | 2.77 | 66.73 | 15.29 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 2.91 | 67.87 | 18.41 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.09 | 68.81 | 18.75 |      | 150.0 |         |
|           |                                            | Z | 3.17 | 68.75 | 19.02 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 3.24 | 69.92 | 18.52 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.65 | 71.74 | 19.22 |      | 150.0 |         |
|           |                                            | Z | 3.63 | 71.08 | 19.26 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 3.66 | 72.66 | 20.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.14 | 74.51 | 20.83 |      | 150.0 |         |
|           |                                            | Z | 4.11 | 73.91 | 20.95 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.32 | 65.83 | 17.44 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49 | 67.28 | 18.07 |      | 150.0 |         |
|           |                                            | Z | 2.46 | 66.70 | 18.14 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 2.74 | 70.01 | 19.35 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.21 | 72.95 | 20.48 |      | 150.0 |         |
|           |                                            | Z | 3.00 | 71.51 | 20.32 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.31 | 66.53 | 16.58 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.63 | 68.93 | 17.60 |      | 150.0 |         |
|           |                                            | Z | 2.50 | 67.67 | 17.42 |      | 150.0 |         |
| 10172-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.90 | 74.23 | 22.35 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 3.68 | 79.90 | 24.98 |      | 65.0  |         |
|           |                                            | Z | 3.91 | 80.19 | 25.56 |      | 65.0  |         |
| 10173-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.92 | 78.79 | 22.40 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.85 | 89.50 | 26.38 |      | 65.0  |         |
|           |                                            | Z | 6.70 | 89.11 | 27.06 |      | 65.0  |         |
| 10174-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.90 | 73.28 | 19.67 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.51 | 84.77 | 24.11 |      | 65.0  |         |
|           |                                            | Z | 4.93 | 82.66 | 24.17 |      | 65.0  |         |
| 10175-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.30 | 65.58 | 17.20 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.47 | 67.02 | 17.83 |      | 150.0 |         |
|           |                                            | Z | 2.44 | 66.43 | 17.89 |      | 150.0 |         |
| 10176-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 2.74 | 70.03 | 19.36 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.21 | 72.97 | 20.49 |      | 150.0 |         |
|           |                                            | Z | 3.00 | 71.53 | 20.33 |      | 150.0 |         |
| 10177-CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.31 | 65.68 | 17.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.48 | 67.13 | 17.91 |      | 150.0 |         |
|           |                                            | Z | 2.45 | 66.56 | 17.98 |      | 150.0 |         |
| 10178-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 2.73 | 69.91 | 19.28 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.19 | 72.83 | 20.41 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 71.36 | 20.23 |      | 150.0 |         |
| 10179-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 2.50 | 68.14 | 17.82 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.89 | 70.84 | 18.91 |      | 150.0 |         |
|           |                                            | Z | 2.72 | 69.48 | 18.74 |      | 150.0 |         |
| 10180-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 2.31 | 66.50 | 16.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.63 | 68.90 | 17.57 |      | 150.0 |         |
|           |                                            | Z | 2.50 | 67.63 | 17.39 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.31 | 65.67 | 17.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.48 | 67.11 | 17.90 |      | 150.0 |         |
|           |                                            | Z | 2.45 | 66.54 | 17.97 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 2.73 | 69.88 | 19.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.19 | 72.81 | 20.40 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 71.34 | 20.21 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 2.31 | 66.48 | 16.55 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.63 | 68.87 | 17.56 |      | 150.0 |         |
|           |                                            | Z | 2.49 | 67.61 | 17.37 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.32 | 65.70 | 17.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.49 | 67.15 | 17.92 |      | 150.0 |         |
|           |                                               | Z | 2.46 | 66.58 | 17.99 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 2.74 | 69.95 | 19.31 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.20 | 72.88 | 20.43 |      | 150.0 |         |
|           |                                               | Z | 2.99 | 71.41 | 20.26 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 2.32 | 66.53 | 16.58 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.64 | 68.94 | 17.60 |      | 150.0 |         |
|           |                                               | Z | 2.51 | 67.67 | 17.41 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.33 | 65.78 | 17.37 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.50 | 67.22 | 18.00 |      | 150.0 |         |
|           |                                               | Z | 2.47 | 66.64 | 18.07 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 2.80 | 70.47 | 19.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.29 | 73.46 | 20.79 |      | 150.0 |         |
|           |                                               | Z | 3.07 | 72.01 | 20.64 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 2.35 | 66.85 | 16.82 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.69 | 69.31 | 17.86 |      | 150.0 |         |
|           |                                               | Z | 2.55 | 68.03 | 17.68 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.23 | 66.54 | 15.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.33 | 66.90 | 16.14 |      | 150.0 |         |
|           |                                               | Z | 4.32 | 66.32 | 15.87 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.36 | 66.75 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.47 | 67.12 | 16.27 |      | 150.0 |         |
|           |                                               | Z | 4.47 | 66.58 | 16.01 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.39 | 66.76 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.50 | 67.13 | 16.28 |      | 150.0 |         |
|           |                                               | Z | 4.50 | 66.61 | 16.03 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.21 | 66.52 | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.32 | 66.89 | 16.12 |      | 150.0 |         |
|           |                                               | Z | 4.31 | 66.33 | 15.87 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.37 | 66.75 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.48 | 67.12 | 16.28 |      | 150.0 |         |
|           |                                               | Z | 4.48 | 66.59 | 16.02 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.38 | 66.75 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.50 | 67.13 | 16.28 |      | 150.0 |         |
|           |                                               | Z | 4.50 | 66.62 | 16.04 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.16 | 66.56 | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.27 | 66.93 | 16.10 |      | 150.0 |         |
|           |                                               | Z | 4.26 | 66.35 | 15.83 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.36 | 66.72 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.47 | 67.08 | 16.26 |      | 150.0 |         |
|           |                                               | Z | 4.47 | 66.56 | 16.01 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.40 | 66.71 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.51 | 67.07 | 16.27 |      | 150.0 |         |
|           |                                               | Z | 4.51 | 66.56 | 16.03 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 4.80 | 66.80 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88 | 67.12 | 16.39 |      | 150.0 |         |
|           |                                               | Z | 4.89 | 66.72 | 16.20 |      | 150.0 |         |

|           |                                           |   |      |       |       |      |       |         |
|-----------|-------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.04 | 66.95 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.14 | 67.29 | 16.49 |      | 150.0 |         |
|           |                                           | Z | 5.18 | 66.99 | 16.36 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 4.84 | 66.92 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 4.92 | 67.24 | 16.38 |      | 150.0 |         |
|           |                                           | Z | 4.93 | 66.82 | 16.18 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.46 | 65.56 | 14.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.62 | 66.44 | 14.96 |      | 150.0 |         |
|           |                                           | Z | 2.55 | 65.41 | 14.45 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 4.12 | 79.74 | 22.87 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.38 | 90.96 | 26.97 |      | 65.0  |         |
|           |                                           | Z | 7.19 | 90.56 | 27.66 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 4.10 | 78.95 | 21.90 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.43 | 89.71 | 25.78 |      | 65.0  |         |
|           |                                           | Z | 7.75 | 90.70 | 26.99 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 3.12 | 75.94 | 23.15 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 4.06 | 82.01 | 25.85 |      | 65.0  |         |
|           |                                           | Z | 4.25 | 82.24 | 26.47 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 3.94 | 78.88 | 22.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.91 | 89.62 | 26.42 |      | 65.0  |         |
|           |                                           | Z | 6.76 | 89.24 | 27.11 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 3.89 | 78.03 | 21.47 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.86 | 88.27 | 25.23 |      | 65.0  |         |
|           |                                           | Z | 7.16 | 89.19 | 26.40 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 3.03 | 75.32 | 22.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.92 | 81.25 | 25.48 |      | 65.0  |         |
|           |                                           | Z | 4.10 | 81.44 | 26.07 |      | 65.0  |         |
| 10232-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 3.94 | 78.86 | 22.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.89 | 89.60 | 26.42 |      | 65.0  |         |
|           |                                           | Z | 6.74 | 89.21 | 27.10 |      | 65.0  |         |
| 10233-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 3.88 | 77.99 | 21.46 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.83 | 88.22 | 25.21 |      | 65.0  |         |
|           |                                           | Z | 7.13 | 89.13 | 26.38 |      | 65.0  |         |
| 10234-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 2.96 | 74.84 | 22.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.82 | 80.66 | 25.12 |      | 65.0  |         |
|           |                                           | Z | 4.00 | 80.82 | 25.70 |      | 65.0  |         |
| 10235-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 3.94 | 78.87 | 22.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.90 | 89.63 | 26.43 |      | 65.0  |         |
|           |                                           | Z | 6.75 | 89.23 | 27.11 |      | 65.0  |         |
| 10236-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 3.92 | 78.11 | 21.50 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.93 | 88.43 | 25.27 |      | 65.0  |         |
|           |                                           | Z | 7.23 | 89.34 | 26.44 |      | 65.0  |         |
| 10237-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 3.03 | 75.32 | 22.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.92 | 81.27 | 25.49 |      | 65.0  |         |
|           |                                           | Z | 4.10 | 81.45 | 26.08 |      | 65.0  |         |
| 10238-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 3.93 | 78.83 | 22.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.87 | 89.57 | 26.41 |      | 65.0  |         |
|           |                                           | Z | 6.72 | 89.17 | 27.08 |      | 65.0  |         |

|           |                                            |   |      |       |       |      |      |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|------|---------|
| 10239-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.87 | 77.95 | 21.45 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.80 | 88.17 | 25.20 |      | 65.0 |         |
|           |                                            | Z | 7.10 | 89.08 | 26.37 |      | 65.0 |         |
| 10240-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.02 | 75.30 | 22.81 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.91 | 81.25 | 25.48 |      | 65.0 |         |
|           |                                            | Z | 4.09 | 81.42 | 26.07 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 5.47 | 76.60 | 23.52 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.28 | 79.70 | 24.95 |      | 65.0 |         |
|           |                                            | Z | 6.08 | 77.98 | 24.56 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.17 | 75.55 | 22.99 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.96 | 78.71 | 24.47 |      | 65.0 |         |
|           |                                            | Z | 5.82 | 77.10 | 24.09 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 4.47 | 72.66 | 22.57 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.85 | 74.66 | 23.64 |      | 65.0 |         |
|           |                                            | Z | 4.89 | 73.70 | 23.43 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 2.59 | 65.60 | 11.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.16 | 68.30 | 13.59 |      | 65.0 |         |
|           |                                            | Z | 3.94 | 71.58 | 16.14 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 2.56 | 65.23 | 11.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.08 | 67.71 | 13.25 |      | 65.0 |         |
|           |                                            | Z | 3.80 | 70.75 | 15.70 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 2.30 | 67.33 | 13.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.40 | 73.14 | 16.55 |      | 65.0 |         |
|           |                                            | Z | 3.20 | 71.92 | 16.41 |      | 65.0 |         |
| 10247-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.93 | 67.28 | 14.07 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.57 | 70.51 | 16.14 |      | 65.0 |         |
|           |                                            | Z | 3.50 | 69.72 | 16.15 |      | 65.0 |         |
| 10248-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.93 | 66.83 | 13.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.51 | 69.74 | 15.76 |      | 65.0 |         |
|           |                                            | Z | 3.49 | 69.17 | 15.87 |      | 65.0 |         |
| 10249-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 3.40 | 72.89 | 17.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.05 | 79.62 | 20.60 |      | 65.0 |         |
|           |                                            | Z | 4.35 | 76.73 | 19.72 |      | 65.0 |         |
| 10250-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 4.07 | 71.77 | 18.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.65 | 74.35 | 20.17 |      | 65.0 |         |
|           |                                            | Z | 4.43 | 72.91 | 19.73 |      | 65.0 |         |
| 10251-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 3.86 | 69.66 | 17.25 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.37 | 71.98 | 18.68 |      | 65.0 |         |
|           |                                            | Z | 4.24 | 70.85 | 18.35 |      | 65.0 |         |
| 10252-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 4.28 | 75.56 | 20.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.50 | 80.28 | 22.41 |      | 65.0 |         |
|           |                                            | Z | 4.84 | 77.34 | 21.32 |      | 65.0 |         |
| 10253-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 4.17 | 69.62 | 17.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.59 | 71.50 | 19.03 |      | 65.0 |         |
|           |                                            | Z | 4.46 | 70.34 | 18.61 |      | 65.0 |         |
| 10254-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 4.46 | 70.60 | 18.66 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.90 | 72.45 | 19.77 |      | 65.0 |         |
|           |                                            | Z | 4.75 | 71.28 | 19.37 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 4.40 | 73.51 | 19.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.16 | 76.59 | 21.27 |      | 65.0 |         |
|           |                                             | Z | 4.77 | 74.49 | 20.43 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 1.88 | 62.21 | 8.80  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.16 | 63.72 | 9.95  |      | 65.0 |         |
|           |                                             | Z | 2.68 | 66.18 | 12.27 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 1.87 | 61.92 | 8.53  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.13 | 63.28 | 9.61  |      | 65.0 |         |
|           |                                             | Z | 2.60 | 65.47 | 11.78 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 1.63 | 62.98 | 9.76  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.11 | 66.24 | 12.11 |      | 65.0 |         |
|           |                                             | Z | 2.20 | 66.42 | 12.68 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 3.37 | 69.09 | 15.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.03 | 72.21 | 17.73 |      | 65.0 |         |
|           |                                             | Z | 3.88 | 71.08 | 17.53 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 3.41 | 68.89 | 15.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.05 | 71.86 | 17.55 |      | 65.0 |         |
|           |                                             | Z | 3.92 | 70.83 | 17.40 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 3.65 | 73.54 | 18.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.99 | 79.08 | 21.01 |      | 65.0 |         |
|           |                                             | Z | 4.36 | 76.25 | 20.08 |      | 65.0 |         |
| 10262-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 4.05 | 71.68 | 18.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.63 | 74.27 | 20.11 |      | 65.0 |         |
|           |                                             | Z | 4.42 | 72.84 | 19.67 |      | 65.0 |         |
| 10263-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 3.85 | 69.65 | 17.25 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.36 | 71.96 | 18.67 |      | 65.0 |         |
|           |                                             | Z | 4.23 | 70.83 | 18.35 |      | 65.0 |         |
| 10264-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 4.23 | 75.35 | 20.01 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.43 | 80.04 | 22.29 |      | 65.0 |         |
|           |                                             | Z | 4.79 | 77.13 | 21.21 |      | 65.0 |         |
| 10265-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 4.21 | 69.90 | 18.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.65 | 71.84 | 19.30 |      | 65.0 |         |
|           |                                             | Z | 4.51 | 70.68 | 18.86 |      | 65.0 |         |
| 10266-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 4.55 | 71.05 | 19.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.00 | 72.95 | 20.16 |      | 65.0 |         |
|           |                                             | Z | 4.85 | 71.75 | 19.72 |      | 65.0 |         |
| 10267-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 4.57 | 74.06 | 19.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.43 | 77.35 | 21.43 |      | 65.0 |         |
|           |                                             | Z | 4.99 | 75.14 | 20.54 |      | 65.0 |         |
| 10268-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 4.89 | 70.28 | 18.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.29 | 71.90 | 19.82 |      | 65.0 |         |
|           |                                             | Z | 5.16 | 70.86 | 19.41 |      | 65.0 |         |
| 10269-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 4.93 | 70.03 | 18.82 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.31 | 71.54 | 19.69 |      | 65.0 |         |
|           |                                             | Z | 5.18 | 70.53 | 19.29 |      | 65.0 |         |
| 10270-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 4.82 | 72.26 | 19.25 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.40 | 74.50 | 20.39 |      | 65.0 |         |
|           |                                             | Z | 5.12 | 72.93 | 19.74 |      | 65.0 |         |

|           |                                                                    |   |       |       |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.30  | 66.08 | 14.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.48  | 67.13 | 15.07 |      | 150.0 |         |
|           |                                                                    | Z | 2.37  | 65.78 | 14.35 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.33  | 66.42 | 14.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.55  | 68.66 | 15.67 |      | 150.0 |         |
|           |                                                                    | Z | 1.35  | 65.99 | 13.99 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.44  | 58.96 | 4.35  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.29  | 58.94 | 4.16  |      | 50.0  |         |
|           |                                                                    | Z | 1.60  | 59.77 | 5.29  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 2.42  | 63.55 | 9.32  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.50  | 65.00 | 10.23 |      | 50.0  |         |
|           |                                                                    | Z | 3.00  | 66.61 | 11.73 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 2.47  | 63.72 | 9.48  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.58  | 65.28 | 10.45 |      | 50.0  |         |
|           |                                                                    | Z | 3.09  | 66.89 | 11.94 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 0.64  | 61.56 | 7.87  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.98  | 65.79 | 11.09 |      | 150.0 |         |
|           |                                                                    | Z | 0.84  | 63.19 | 9.57  |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.41  | 60.33 | 6.79  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.62  | 64.18 | 10.12 |      | 150.0 |         |
|           |                                                                    | Z | 0.50  | 61.40 | 8.20  |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 0.46  | 61.89 | 7.99  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.01  | 70.37 | 13.40 |      | 150.0 |         |
|           |                                                                    | Z | 0.57  | 63.19 | 9.51  |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 0.64  | 65.03 | 10.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.97  | 89.66 | 20.54 |      | 150.0 |         |
|           |                                                                    | Z | 0.76  | 66.38 | 11.57 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 14.73 | 88.54 | 22.30 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 21.95 | 97.75 | 26.07 |      | 50.0  |         |
|           |                                                                    | Z | 14.97 | 91.80 | 24.79 |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.34  | 68.34 | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.58  | 69.89 | 16.76 |      | 150.0 |         |
|           |                                                                    | Z | 2.40  | 68.08 | 15.64 |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 0.86  | 62.29 | 9.16  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.16  | 65.45 | 11.69 |      | 150.0 |         |
|           |                                                                    | Z | 1.05  | 63.56 | 10.60 |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 1.14  | 61.76 | 8.21  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.41  | 63.51 | 9.50  |      | 150.0 |         |
|           |                                                                    | Z | 1.73  | 65.72 | 11.49 |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 0.97  | 60.07 | 6.55  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.14  | 61.11 | 7.49  |      | 150.0 |         |
|           |                                                                    | Z | 1.33  | 62.21 | 8.89  |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.13  | 64.55 | 16.56 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.26  | 65.00 | 16.97 |      | 50.0  |         |
|           |                                                                    | Z | 4.39  | 64.86 | 16.90 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 4.66  | 65.38 | 17.39 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.76  | 65.70 | 17.72 |      | 50.0  |         |
|           |                                                                    | Z | 4.88  | 65.46 | 17.59 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.45 | 65.36 | 17.40 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.51 | 65.30 | 17.48 |       | 50.0  |         |
|           |                                                                     | Z | 4.62 | 65.06 | 17.37 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.25 | 64.98 | 16.73 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.36 | 65.33 | 17.07 |       | 50.0  |         |
|           |                                                                     | Z | 4.45 | 64.98 | 16.90 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 3.81 | 66.28 | 17.81 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 3.76 | 65.91 | 18.03 |       | 35.0  |         |
|           |                                                                     | Z | 4.04 | 66.66 | 18.48 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.18 | 65.73 | 17.92 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.17 | 65.55 | 18.11 |       | 35.0  |         |
|           |                                                                     | Z | 4.39 | 65.94 | 18.38 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.05 | 65.69 | 17.78 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.04 | 65.48 | 17.96 |       | 35.0  |         |
|           |                                                                     | Z | 4.27 | 65.96 | 18.27 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.03 | 65.87 | 17.91 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.01 | 65.64 | 18.09 |       | 35.0  |         |
|           |                                                                     | Z | 4.25 | 66.15 | 18.40 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.18 | 65.77 | 18.00 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.19 | 65.61 | 18.20 |       | 35.0  |         |
|           |                                                                     | Z | 4.42 | 66.06 | 18.49 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.13 | 65.78 | 17.90 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.12 | 65.57 | 18.08 |       | 35.0  |         |
|           |                                                                     | Z | 4.34 | 65.98 | 18.35 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 2.69 | 67.62 | 15.56 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.94 | 69.08 | 16.39 |       | 150.0 |         |
|           |                                                                     | Z | 2.75 | 67.40 | 15.38 |       | 150.0 |         |
| 10313-AAA | IDEN 1:3                                                            | X | 1.80 | 67.21 | 13.40 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.78 | 73.35 | 16.36 |       | 70.0  |         |
|           |                                                                     | Z | 2.09 | 69.09 | 14.51 |       | 70.0  |         |
| 10314-AAA | IDEN 1:6                                                            | X | 3.26 | 75.39 | 19.57 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 5.56 | 85.97 | 24.05 |       | 30.0  |         |
|           |                                                                     | Z | 4.04 | 79.23 | 21.39 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 0.96 | 62.72 | 14.16 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.05 | 63.94 | 15.22 |       | 150.0 |         |
|           |                                                                     | Z | 0.96 | 62.45 | 14.04 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.24 | 66.42 | 15.96 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.35 | 66.80 | 16.22 |       | 150.0 |         |
|           |                                                                     | Z | 4.36 | 66.32 | 16.01 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.24 | 66.42 | 15.96 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.35 | 66.80 | 16.22 |       | 150.0 |         |
|           |                                                                     | Z | 4.36 | 66.32 | 16.01 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.31 | 66.71 | 15.99 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.43 | 67.11 | 16.24 |       | 150.0 |         |
|           |                                                                     | Z | 4.43 | 66.60 | 15.99 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 4.98 | 66.52 | 16.05 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.08 | 66.87 | 16.24 |       | 150.0 |         |
|           |                                                                     | Z | 5.16 | 66.70 | 16.18 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.36   | 67.14  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.44   | 67.45  | 16.42 |      | 150.0 |         |
|           |                                                                                 | Z | 5.45   | 67.07  | 16.25 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 0.64   | 61.56  | 7.87  | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.98   | 65.79  | 11.09 |      | 115.0 |         |
|           |                                                                                 | Z | 0.84   | 63.19  | 9.57  |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 0.64   | 61.56  | 7.87  | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.98   | 65.79  | 11.09 |      | 115.0 |         |
|           |                                                                                 | Z | 0.84   | 63.19  | 9.57  |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 119.53 | 28.08 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 115.68 | 26.57 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 126.19 | 31.47 |      | 100.0 |         |
| 10410-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 2.86   | 79.80  | 18.70 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 25.09  | 107.33 | 26.44 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 133.23 | 34.42 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 0.92   | 62.32  | 13.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.00   | 63.42  | 14.80 |      | 150.0 |         |
|           |                                                                                 | Z | 0.91   | 61.96  | 13.60 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.22   | 66.50  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.32   | 66.87  | 16.21 |      | 150.0 |         |
|           |                                                                                 | Z | 4.32   | 66.33  | 15.95 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.22   | 66.50  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.32   | 66.87  | 16.21 |      | 150.0 |         |
|           |                                                                                 | Z | 4.32   | 66.33  | 15.95 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.21   | 66.71  | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.32   | 67.09  | 16.27 |      | 150.0 |         |
|           |                                                                                 | Z | 4.31   | 66.51  | 15.99 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.23   | 66.64  | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.34   | 67.01  | 16.25 |      | 150.0 |         |
|           |                                                                                 | Z | 4.33   | 66.45  | 15.98 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.33   | 66.62  | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.44   | 66.98  | 16.26 |      | 150.0 |         |
|           |                                                                                 | Z | 4.44   | 66.45  | 16.00 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.45   | 66.86  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.56   | 67.23  | 16.34 |      | 150.0 |         |
|           |                                                                                 | Z | 4.57   | 66.72  | 16.10 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.38   | 66.81  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.50   | 67.18  | 16.32 |      | 150.0 |         |
|           |                                                                                 | Z | 4.50   | 66.66  | 16.07 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.03   | 67.03  | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.11   | 67.32  | 16.49 |      | 150.0 |         |
|           |                                                                                 | Z | 5.14   | 66.98  | 16.33 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.06   | 67.16  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.13   | 67.40  | 16.52 |      | 150.0 |         |
|           |                                                                                 | Z | 5.17   | 67.10  | 16.39 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.01   | 66.91  | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.09   | 67.19  | 16.41 |      | 150.0 |         |
|           |                                                                | Z | 5.13   | 66.90  | 16.28 |      | 150.0 |         |
| 10430-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.07   | 72.07  | 17.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.24   | 72.56  | 18.40 |      | 150.0 |         |
|           |                                                                | Z | 4.04   | 71.02  | 17.78 |      | 150.0 |         |
| 10431-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 3.79   | 66.99  | 15.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.94   | 67.49  | 16.09 |      | 150.0 |         |
|           |                                                                | Z | 3.92   | 66.79  | 15.76 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.13   | 66.89  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.26   | 67.30  | 16.25 |      | 150.0 |         |
|           |                                                                | Z | 4.25   | 66.71  | 15.96 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.40   | 66.85  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.51   | 67.22  | 16.34 |      | 150.0 |         |
|           |                                                                | Z | 4.51   | 66.70  | 16.09 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.05   | 72.38  | 17.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.37   | 73.48  | 18.19 |      | 150.0 |         |
|           |                                                                | Z | 4.07   | 71.60  | 17.46 |      | 150.0 |         |
| 10435-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 2.72   | 79.05  | 18.38 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 21.44  | 105.07 | 25.81 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 132.91 | 34.27 |      | 80.0  |         |
| 10447-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 2.96   | 66.34  | 14.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.18   | 67.31  | 14.92 |      | 150.0 |         |
|           |                                                                | Z | 3.13   | 66.39  | 14.53 |      | 150.0 |         |
| 10448-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.67   | 66.79  | 15.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.81   | 67.30  | 15.97 |      | 150.0 |         |
|           |                                                                | Z | 3.78   | 66.58  | 15.62 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 3.98   | 66.71  | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.10   | 67.14  | 16.16 |      | 150.0 |         |
|           |                                                                | Z | 4.09   | 66.52  | 15.85 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.21   | 66.62  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.32   | 67.01  | 16.21 |      | 150.0 |         |
|           |                                                                | Z | 4.30   | 66.46  | 15.93 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 2.70   | 65.75  | 13.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.96   | 67.00  | 14.12 |      | 150.0 |         |
|           |                                                                | Z | 2.94   | 66.14  | 13.79 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 5.99   | 67.61  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.02   | 67.80  | 16.61 |      | 150.0 |         |
|           |                                                                | Z | 6.11   | 67.72  | 16.61 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.61   | 65.32  | 15.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.69   | 65.64  | 15.94 |      | 150.0 |         |
|           |                                                                | Z | 3.65   | 65.04  | 15.66 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.19   | 69.07  | 15.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.69   | 71.30  | 16.62 |      | 150.0 |         |
|           |                                                                | Z | 3.53   | 69.92  | 16.16 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.69   | 69.03  | 17.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.79   | 69.11  | 17.75 |      | 150.0 |         |
|           |                                                                | Z | 4.84   | 68.73  | 17.83 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.72   | 66.02  | 14.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.91   | 69.57  | 16.66 |      | 150.0 |         |
|           |                                                                   | Z | 0.71   | 65.26  | 13.72 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.93   | 75.92  | 18.31 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 6.83   | 93.43  | 24.06 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 137.66 | 36.58 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.63   | 60.00  | 7.27  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.63   | 60.00  | 7.19  |      | 80.0  |         |
|           |                                                                   | Z | 1.15   | 65.31  | 10.99 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.65   | 60.00  | 6.55  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 6.45  |      | 80.0  |         |
|           |                                                                   | Z | 0.67   | 60.00  | 7.76  |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.38   | 71.32  | 15.83 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.54   | 86.66  | 21.20 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.26 | 34.80 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.63   | 60.00  | 7.20  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.63   | 60.00  | 7.11  |      | 80.0  |         |
|           |                                                                   | Z | 0.94   | 63.37  | 10.05 |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.65   | 60.00  | 6.50  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 6.41  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.70  |      | 80.0  |         |
| 10467-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.47   | 72.19  | 16.22 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 5.30   | 88.83  | 21.91 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.76 | 35.02 |      | 80.0  |         |
| 10468-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.63   | 60.00  | 7.22  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.63   | 60.00  | 7.14  |      | 80.0  |         |
|           |                                                                   | Z | 0.99   | 63.90  | 10.32 |      | 80.0  |         |
| 10469-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.65   | 60.00  | 6.51  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 6.41  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.70  |      | 80.0  |         |
| 10470-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 1.46   | 72.21  | 16.22 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 5.35   | 88.98  | 21.94 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.82 | 35.03 |      | 80.0  |         |
| 10471-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.63   | 60.00  | 7.21  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.63   | 60.00  | 7.12  |      | 80.0  |         |
|           |                                                                   | Z | 0.98   | 63.79  | 10.26 |      | 80.0  |         |
| 10472-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.65   | 60.00  | 6.49  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 6.39  |      | 80.0  |         |
|           |                                                                   | Z | 0.67   | 60.00  | 7.68  |      | 80.0  |         |
| 10473-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 1.46   | 72.15  | 16.20 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 5.31   | 88.87  | 21.90 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.77 | 35.01 |      | 80.0  |         |
| 10474-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.63   | 60.00  | 7.20  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.63   | 60.00  | 7.12  |      | 80.0  |         |
|           |                                                                   | Z | 0.97   | 63.74  | 10.23 |      | 80.0  |         |
| 10475-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.65   | 60.00  | 6.49  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.66   | 60.00  | 6.39  |      | 80.0  |         |
|           |                                                                   | Z | 0.67   | 60.00  | 7.69  |      | 80.0  |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.63  | 60.00  | 7.17  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.63  | 60.00  | 7.08  |      | 80.0 |         |
|           |                                                                     | Z | 0.93  | 63.31  | 10.01 |      | 80.0 |         |
| 10478-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.65  | 60.00  | 6.47  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.66  | 60.00  | 6.37  |      | 80.0 |         |
|           |                                                                     | Z | 0.67  | 60.00  | 7.67  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.26  | 80.69  | 20.19 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.01  | 87.70  | 22.71 |      | 80.0 |         |
|           |                                                                     | Z | 21.27 | 105.57 | 28.88 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.88  | 66.39  | 12.32 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.13  | 71.95  | 14.74 |      | 80.0 |         |
|           |                                                                     | Z | 13.52 | 90.52  | 21.87 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.43  | 63.16  | 10.40 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.06  | 66.80  | 12.23 |      | 80.0 |         |
|           |                                                                     | Z | 6.11  | 79.62  | 18.02 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.06  | 61.11  | 9.78  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.73  | 66.89  | 13.39 |      | 80.0 |         |
|           |                                                                     | Z | 1.53  | 64.78  | 12.61 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.23  | 60.00  | 8.50  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.57  | 62.45  | 10.22 |      | 80.0 |         |
|           |                                                                     | Z | 2.78  | 68.98  | 14.19 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.26  | 60.00  | 8.49  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.54  | 61.98  | 9.97  |      | 80.0 |         |
|           |                                                                     | Z | 2.53  | 67.57  | 13.58 |      | 80.0 |         |
| 10485-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.66  | 65.74  | 13.74 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.52  | 71.78  | 17.06 |      | 80.0 |         |
|           |                                                                     | Z | 2.10  | 68.47  | 15.70 |      | 80.0 |         |
| 10486-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.66  | 62.56  | 11.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.26  | 66.58  | 13.85 |      | 80.0 |         |
|           |                                                                     | Z | 2.12  | 65.12  | 13.38 |      | 80.0 |         |
| 10487-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.67  | 62.33  | 11.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.24  | 66.10  | 13.59 |      | 80.0 |         |
|           |                                                                     | Z | 2.14  | 64.83  | 13.21 |      | 80.0 |         |
| 10488-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 2.26  | 67.65  | 16.13 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.82  | 71.24  | 18.12 |      | 80.0 |         |
|           |                                                                     | Z | 2.57  | 69.00  | 17.08 |      | 80.0 |         |
| 10489-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.49  | 65.85  | 15.07 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.90  | 68.21  | 16.54 |      | 80.0 |         |
|           |                                                                     | Z | 2.74  | 66.70  | 15.91 |      | 80.0 |         |
| 10490-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.57  | 65.79  | 15.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.97  | 68.04  | 16.46 |      | 80.0 |         |
|           |                                                                     | Z | 2.83  | 66.63  | 15.88 |      | 80.0 |         |
| 10491-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 2.64  | 67.24  | 16.30 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.09  | 69.79  | 17.74 |      | 80.0 |         |
|           |                                                                     | Z | 2.92  | 68.21  | 16.96 |      | 80.0 |         |
| 10492-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.93  | 65.80  | 15.66 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.24  | 67.45  | 16.69 |      | 80.0 |         |
|           |                                                                     | Z | 3.14  | 66.35  | 16.22 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.99 | 65.74 | 15.62 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.29 | 67.32 | 16.63 |      | 80.0 |         |
|           |                                                                      | Z | 3.21 | 66.28 | 16.18 |      | 80.0 |         |
| 10494-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.77 | 68.16 | 16.65 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.31 | 71.10 | 18.21 |      | 80.0 |         |
|           |                                                                      | Z | 3.09 | 69.31 | 17.33 |      | 80.0 |         |
| 10495-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.95 | 66.01 | 15.89 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.25 | 67.67 | 16.91 |      | 80.0 |         |
|           |                                                                      | Z | 3.16 | 66.59 | 16.41 |      | 80.0 |         |
| 10496-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.04 | 65.92 | 15.89 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.34 | 67.48 | 16.84 |      | 80.0 |         |
|           |                                                                      | Z | 3.25 | 66.45 | 16.38 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 0.90 | 60.00 | 7.56  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 0.94 | 60.22 | 8.59  |      | 80.0 |         |
|           |                                                                      | Z | 0.98 | 60.00 | 8.77  |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.09 | 60.00 | 6.33  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.09 | 60.00 | 7.12  |      | 80.0 |         |
|           |                                                                      | Z | 1.16 | 60.00 | 7.58  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.11 | 60.00 | 6.17  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.11 | 60.00 | 6.94  |      | 80.0 |         |
|           |                                                                      | Z | 1.17 | 60.00 | 7.42  |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.91 | 66.68 | 14.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.64 | 71.54 | 17.49 |      | 80.0 |         |
|           |                                                                      | Z | 2.29 | 68.68 | 16.26 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.02 | 64.23 | 12.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.60 | 67.75 | 15.11 |      | 80.0 |         |
|           |                                                                      | Z | 2.42 | 66.09 | 14.51 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.05 | 64.07 | 12.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.63 | 67.51 | 14.92 |      | 80.0 |         |
|           |                                                                      | Z | 2.46 | 65.95 | 14.37 |      | 80.0 |         |
| 10503-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.23 | 67.47 | 16.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.79 | 71.03 | 18.01 |      | 80.0 |         |
|           |                                                                      | Z | 2.54 | 68.82 | 16.98 |      | 80.0 |         |
| 10504-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.48 | 65.75 | 15.00 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.88 | 68.10 | 16.48 |      | 80.0 |         |
|           |                                                                      | Z | 2.73 | 66.60 | 15.85 |      | 80.0 |         |
| 10505-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.55 | 65.70 | 14.97 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.95 | 67.94 | 16.40 |      | 80.0 |         |
|           |                                                                      | Z | 2.81 | 66.54 | 15.82 |      | 80.0 |         |
| 10506-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 2.76 | 68.04 | 16.58 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.29 | 70.96 | 18.14 |      | 80.0 |         |
|           |                                                                      | Z | 3.07 | 69.18 | 17.26 |      | 80.0 |         |
| 10507-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.93 | 65.95 | 15.85 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.24 | 67.61 | 16.87 |      | 80.0 |         |
|           |                                                                      | Z | 3.14 | 66.53 | 16.37 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.03 | 65.86 | 15.84 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.33 | 67.40 | 16.79 |      | 80.0  |         |
|           |                                                                     | Z | 3.24 | 66.38 | 16.33 |      | 80.0  |         |
| 10509-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.24 | 67.72 | 16.53 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.69 | 69.96 | 17.72 |      | 80.0  |         |
|           |                                                                     | Z | 3.51 | 68.56 | 17.03 |      | 80.0  |         |
| 10510-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.43 | 65.97 | 16.12 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.71 | 67.32 | 16.91 |      | 80.0  |         |
|           |                                                                     | Z | 3.64 | 66.47 | 16.52 |      | 80.0  |         |
| 10511-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.52 | 65.89 | 16.12 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.78 | 67.15 | 16.86 |      | 80.0  |         |
|           |                                                                     | Z | 3.71 | 66.32 | 16.49 |      | 80.0  |         |
| 10512-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.22 | 68.47 | 16.72 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.79 | 71.22 | 18.12 |      | 80.0  |         |
|           |                                                                     | Z | 3.54 | 69.57 | 17.32 |      | 80.0  |         |
| 10513-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.32 | 66.00 | 16.15 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.60 | 67.43 | 16.98 |      | 80.0  |         |
|           |                                                                     | Z | 3.52 | 66.56 | 16.56 |      | 80.0  |         |
| 10514-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.39 | 65.79 | 16.10 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.64 | 67.11 | 16.88 |      | 80.0  |         |
|           |                                                                     | Z | 3.57 | 66.28 | 16.49 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.88 | 62.44 | 13.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.96 | 63.62 | 14.88 |      | 150.0 |         |
|           |                                                                     | Z | 0.87 | 62.07 | 13.59 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.45 | 66.98 | 14.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.65 | 72.72 | 18.47 |      | 150.0 |         |
|           |                                                                     | Z | 0.42 | 65.95 | 13.66 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.70 | 63.68 | 13.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.81 | 65.65 | 15.62 |      | 150.0 |         |
|           |                                                                     | Z | 0.69 | 63.23 | 13.65 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.21 | 66.61 | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.32 | 66.98 | 16.20 |      | 150.0 |         |
|           |                                                                     | Z | 4.31 | 66.42 | 15.93 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.34 | 66.77 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 67.14 | 16.28 |      | 150.0 |         |
|           |                                                                     | Z | 4.46 | 66.61 | 16.03 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.20 | 66.68 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.32 | 67.07 | 16.20 |      | 150.0 |         |
|           |                                                                     | Z | 4.31 | 66.53 | 15.94 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.13 | 66.63 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.25 | 67.04 | 16.18 |      | 150.0 |         |
|           |                                                                     | Z | 4.24 | 66.49 | 15.91 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.17 | 66.72 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.29 | 67.14 | 16.26 |      | 150.0 |         |
|           |                                                                     | Z | 4.30 | 66.63 | 16.02 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.12 | 66.80 | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.24 | 67.19 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 4.21 | 66.57 | 15.90 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.13 | 66.73 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.25 | 67.13 | 16.27 |      | 150.0 |         |
|           |                                                            | Z | 4.25 | 66.57 | 15.99 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.18 | 65.86 | 15.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.29 | 66.26 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.27 | 65.65 | 15.61 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.28 | 66.10 | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 66.52 | 16.01 |      | 150.0 |         |
|           |                                                            | Z | 4.40 | 65.94 | 15.73 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.22 | 66.07 | 15.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.34 | 66.49 | 15.96 |      | 150.0 |         |
|           |                                                            | Z | 4.33 | 65.90 | 15.66 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.23 | 66.08 | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.36 | 66.51 | 15.99 |      | 150.0 |         |
|           |                                                            | Z | 4.34 | 65.91 | 15.70 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.23 | 66.08 | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.36 | 66.51 | 15.99 |      | 150.0 |         |
|           |                                                            | Z | 4.34 | 65.91 | 15.70 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.19 | 66.07 | 15.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.32 | 66.52 | 15.96 |      | 150.0 |         |
|           |                                                            | Z | 4.31 | 65.94 | 15.68 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.08 | 65.93 | 15.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.20 | 66.39 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.19 | 65.79 | 15.60 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.23 | 66.16 | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.36 | 66.60 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 4.35 | 65.98 | 15.69 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 4.82 | 66.10 | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.91 | 66.46 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 4.91 | 66.02 | 15.83 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 4.85 | 66.20 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.94 | 66.56 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.97 | 66.17 | 15.90 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 4.74 | 66.19 | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.84 | 66.58 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 4.85 | 66.14 | 15.86 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 4.82 | 66.26 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.91 | 66.59 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 4.91 | 66.13 | 15.86 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 4.87 | 66.17 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.97 | 66.52 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.98 | 66.12 | 15.90 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 4.80 | 66.12 | 15.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.90 | 66.49 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.91 | 66.07 | 15.89 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 4.79 | 66.06 | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.89 | 66.43 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 4.89 | 65.96 | 15.82 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 4.94 | 66.17 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.04 | 66.51 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.05 | 66.09 | 15.90 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.03 | 66.31 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.11 | 66.60 | 16.17 |      | 150.0 |         |
|           |                                                    | Z | 5.12 | 66.17 | 15.97 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.18 | 66.16 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.26 | 66.52 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.26 | 66.12 | 15.84 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.36 | 66.65 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.42 | 66.93 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.61 | 16.04 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.20 | 66.27 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.29 | 66.63 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.29 | 66.25 | 15.87 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.31 | 66.50 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.75 | 16.11 |      | 150.0 |         |
|           |                                                    | Z | 5.38 | 66.37 | 15.93 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.41 | 66.98 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.49 | 67.30 | 16.36 |      | 150.0 |         |
|           |                                                    | Z | 5.57 | 67.13 | 16.28 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.30 | 66.60 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.35 | 66.83 | 16.16 |      | 150.0 |         |
|           |                                                    | Z | 5.37 | 66.46 | 15.99 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.19 | 66.21 | 15.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.28 | 66.60 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.30 | 66.24 | 15.84 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.18 | 66.29 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.27 | 66.65 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.26 | 66.20 | 15.82 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.23 | 66.22 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.32 | 66.58 | 16.03 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.18 | 15.85 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.62 | 66.51 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.68 | 66.84 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.69 | 66.48 | 15.94 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.69 | 66.71 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.76 | 67.04 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.79 | 66.75 | 16.05 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.75 | 66.88 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.80 | 67.16 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 5.83 | 66.85 | 16.10 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.69 | 66.70 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.76 | 67.04 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.77 | 66.69 | 16.03 |      | 150.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.67 | 66.68 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.76 | 67.07 | 16.22 |      | 150.0 |         |
|           |                                                                 | Z | 5.80 | 66.79 | 16.10 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.71 | 66.66 | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.79 | 67.02 | 16.23 |      | 150.0 |         |
|           |                                                                 | Z | 5.81 | 66.69 | 16.09 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.65 | 66.65 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.72 | 67.00 | 16.25 |      | 150.0 |         |
|           |                                                                 | Z | 5.75 | 66.69 | 16.12 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 5.68 | 66.77 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.77 | 67.15 | 16.33 |      | 150.0 |         |
|           |                                                                 | Z | 5.80 | 66.87 | 16.21 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 5.80 | 66.82 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.88 | 67.15 | 16.29 |      | 150.0 |         |
|           |                                                                 | Z | 5.91 | 66.85 | 16.17 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.52 | 66.62 | 16.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63 | 66.97 | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 4.63 | 66.48 | 16.09 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 4.71 | 67.05 | 16.42 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.82 | 67.38 | 16.63 |      | 150.0 |         |
|           |                                                                 | Z | 4.83 | 66.91 | 16.42 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.54 | 66.82 | 16.20 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 67.19 | 16.43 |      | 150.0 |         |
|           |                                                                 | Z | 4.66 | 66.71 | 16.22 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.58 | 67.25 | 16.61 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 67.60 | 16.82 |      | 150.0 |         |
|           |                                                                 | Z | 4.69 | 67.12 | 16.60 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.42 | 66.46 | 15.88 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.88 | 16.15 |      | 150.0 |         |
|           |                                                                 | Z | 4.56 | 66.45 | 15.95 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.58 | 67.53 | 16.78 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.68 | 67.86 | 16.97 |      | 150.0 |         |
|           |                                                                 | Z | 4.68 | 67.31 | 16.72 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.57 | 67.27 | 16.64 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.68 | 67.61 | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.69 | 67.12 | 16.62 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 0.99 | 62.81 | 14.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.09 | 64.12 | 15.35 |      | 130.0 |         |
|           |                                                                 | Z | 1.00 | 62.69 | 14.25 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.00 | 63.25 | 14.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.10 | 64.66 | 15.71 |      | 130.0 |         |
|           |                                                                 | Z | 1.00 | 63.12 | 14.54 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 0.77 | 71.94 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.53 | 83.79 | 23.08 |      | 130.0 |         |
|           |                                                                 | Z | 0.78 | 71.84 | 17.05 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 0.97 | 67.27 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.16 | 70.12 | 18.67 |      | 130.0 |         |
|           |                                                                 | Z | 0.98 | 67.08 | 16.66 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.29 | 66.33 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.40 | 66.70 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.41 | 66.24 | 16.12 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.32 | 66.56 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 66.92 | 16.41 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.43 | 16.20 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.47 | 66.78 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.14 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.60 | 66.69 | 16.36 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.38 | 66.93 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 67.29 | 16.66 |      | 130.0 |         |
|           |                                                                 | Z | 4.50 | 66.83 | 16.46 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.12 | 66.01 | 15.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.24 | 66.44 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.26 | 65.99 | 15.69 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.14 | 66.03 | 15.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.27 | 66.48 | 15.90 |      | 130.0 |         |
|           |                                                                 | Z | 4.30 | 66.06 | 15.72 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.29 | 67.01 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.41 | 67.39 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.41 | 66.87 | 16.41 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.04 | 65.76 | 15.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.17 | 66.20 | 15.67 |      | 130.0 |         |
|           |                                                                 | Z | 4.19 | 65.76 | 15.46 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.29 | 66.33 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.40 | 66.70 | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.41 | 66.24 | 16.12 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.32 | 66.56 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 66.92 | 16.41 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.43 | 16.20 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.47 | 66.78 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.14 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.60 | 66.69 | 16.36 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.38 | 66.93 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 67.29 | 16.66 |      | 130.0 |         |
|           |                                                                 | Z | 4.50 | 66.83 | 16.46 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.12 | 66.01 | 15.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.24 | 66.44 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.26 | 65.99 | 15.69 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.14 | 66.03 | 15.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.27 | 66.48 | 15.90 |      | 130.0 |         |
|           |                                                                 | Z | 4.30 | 66.06 | 15.72 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.29 | 67.01 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.41 | 67.39 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.41 | 66.87 | 16.41 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.04 | 65.76 | 15.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.17 | 66.20 | 15.67 |      | 130.0 |         |
|           |                                                                 | Z | 4.19 | 65.76 | 15.46 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.45 | 66.46 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.56 | 66.80 | 16.44 |      | 130.0 |         |
|           |                                                       | Z | 4.57 | 66.34 | 16.25 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.56 | 66.73 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.67 | 67.08 | 16.56 |      | 130.0 |         |
|           |                                                       | Z | 4.69 | 66.64 | 16.38 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.47 | 66.59 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.59 | 66.95 | 16.42 |      | 130.0 |         |
|           |                                                       | Z | 4.60 | 66.51 | 16.23 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.53 | 66.78 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.64 | 67.13 | 16.59 |      | 130.0 |         |
|           |                                                       | Z | 4.66 | 66.69 | 16.40 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.49 | 66.75 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.61 | 67.12 | 16.50 |      | 130.0 |         |
|           |                                                       | Z | 4.62 | 66.66 | 16.30 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.42 | 66.68 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.53 | 67.07 | 16.49 |      | 130.0 |         |
|           |                                                       | Z | 4.55 | 66.62 | 16.29 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.37 | 66.54 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.49 | 66.93 | 16.34 |      | 130.0 |         |
|           |                                                       | Z | 4.51 | 66.49 | 16.14 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.38 | 66.81 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.49 | 67.18 | 16.61 |      | 130.0 |         |
|           |                                                       | Z | 4.50 | 66.72 | 16.41 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.17 | 67.00 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.23 | 67.23 | 16.68 |      | 130.0 |         |
|           |                                                       | Z | 5.27 | 66.93 | 16.57 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.26 | 67.35 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.31 | 67.52 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 5.40 | 67.37 | 16.76 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.19 | 67.20 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.24 | 67.37 | 16.74 |      | 130.0 |         |
|           |                                                       | Z | 5.28 | 67.08 | 16.63 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.24 | 67.11 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.31 | 67.34 | 16.64 |      | 130.0 |         |
|           |                                                       | Z | 5.41 | 67.24 | 16.63 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.29 | 67.35 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.38 | 67.63 | 16.93 |      | 130.0 |         |
|           |                                                       | Z | 5.49 | 67.59 | 16.94 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.15 | 66.85 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.25 | 67.21 | 16.70 |      | 130.0 |         |
|           |                                                       | Z | 5.37 | 67.21 | 16.74 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.23 | 67.14 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.30 | 67.39 | 16.79 |      | 130.0 |         |
|           |                                                       | Z | 5.38 | 67.23 | 16.74 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.05 | 66.67 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.11 | 66.89 | 16.39 |      | 130.0 |         |
|           |                                                       | Z | 5.14 | 66.57 | 16.26 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.30 | 65.79 | 15.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.41 | 66.18 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 4.41 | 65.65 | 15.87 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.42 | 66.08 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.54 | 66.48 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.55 | 65.99 | 16.03 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.32 | 65.89 | 15.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.44 | 66.32 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 4.44 | 65.81 | 15.84 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.37 | 66.08 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.49 | 66.49 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.49 | 65.99 | 16.01 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.28 | 65.85 | 15.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.40 | 66.28 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.41 | 65.78 | 15.85 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.26 | 65.94 | 15.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.39 | 66.39 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 4.40 | 65.90 | 15.88 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.25 | 65.75 | 15.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.38 | 66.20 | 15.95 |      | 130.0 |         |
|           |                                                   | Z | 4.40 | 65.73 | 15.73 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.24 | 66.02 | 15.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.36 | 66.46 | 16.22 |      | 130.0 |         |
|           |                                                   | Z | 4.36 | 65.95 | 15.99 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.26 | 65.66 | 15.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.39 | 66.11 | 15.84 |      | 130.0 |         |
|           |                                                   | Z | 4.40 | 65.60 | 15.61 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 4.95 | 66.09 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.04 | 66.42 | 16.27 |      | 130.0 |         |
|           |                                                   | Z | 5.06 | 66.06 | 16.12 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 4.98 | 66.18 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.07 | 66.52 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.13 | 66.25 | 16.19 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 4.89 | 66.22 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.61 | 16.35 |      | 130.0 |         |
|           |                                                   | Z | 5.02 | 66.28 | 16.21 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 4.94 | 66.16 | 16.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.01 | 66.45 | 16.21 |      | 130.0 |         |
|           |                                                   | Z | 5.04 | 66.09 | 16.05 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 4.98 | 66.07 | 16.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.08 | 66.42 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 5.12 | 66.10 | 16.11 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.00 | 66.21 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.09 | 66.55 | 16.43 |      | 130.0 |         |
|           |                                                   | Z | 5.12 | 66.22 | 16.29 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 4.98 | 66.29 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.08 | 66.63 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.32 | 16.34 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 4.88 | 65.86 | 15.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 4.97 | 66.20 | 16.11 |      | 130.0 |         |
|           |                                                    | Z | 4.99 | 65.82 | 15.95 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.07 | 66.13 | 16.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.16 | 66.45 | 16.30 |      | 130.0 |         |
|           |                                                    | Z | 5.20 | 66.12 | 16.17 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.18 | 66.36 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.24 | 66.57 | 16.42 |      | 130.0 |         |
|           |                                                    | Z | 5.32 | 66.38 | 16.36 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.30 | 66.10 | 16.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.38 | 66.44 | 16.22 |      | 130.0 |         |
|           |                                                    | Z | 5.40 | 66.12 | 16.09 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.53 | 66.77 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 67.01 | 16.48 |      | 130.0 |         |
|           |                                                    | Z | 5.65 | 66.81 | 16.41 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.29 | 66.06 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.41 | 16.10 |      | 130.0 |         |
|           |                                                    | Z | 5.40 | 66.11 | 15.98 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.43 | 66.42 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.47 | 66.61 | 16.20 |      | 130.0 |         |
|           |                                                    | Z | 5.50 | 66.31 | 16.08 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 5.59 | 67.09 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.66 | 67.38 | 16.59 |      | 130.0 |         |
|           |                                                    | Z | 5.82 | 67.46 | 16.66 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.58 | 67.18 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.66 | 67.50 | 16.84 |      | 130.0 |         |
|           |                                                    | Z | 5.74 | 67.33 | 16.79 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.57 | 67.09 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.60 | 67.22 | 16.72 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 66.96 | 16.63 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.30 | 66.12 | 16.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.49 | 16.18 |      | 130.0 |         |
|           |                                                    | Z | 5.45 | 66.28 | 16.11 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.34 | 66.35 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 66.70 | 16.34 |      | 130.0 |         |
|           |                                                    | Z | 5.44 | 66.35 | 16.20 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.19 | 65.54 | 15.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.28 | 65.93 | 15.68 |      | 130.0 |         |
|           |                                                    | Z | 5.31 | 65.62 | 15.55 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.75 | 66.48 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.81 | 66.78 | 16.30 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 66.50 | 16.20 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 5.86 | 66.76 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.91 | 67.05 | 16.42 |      | 130.0 |         |
|           |                                                    | Z | 5.98 | 66.87 | 16.37 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 5.90 | 66.89 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.95 | 67.16 | 16.45 |      | 130.0 |         |
|           |                                                    | Z | 5.98 | 66.88 | 16.35 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 5.83   | 66.70  | 16.28 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.90   | 67.02  | 16.42 |       | 130.0 |         |
|           |                                                        | Z | 5.94   | 66.76  | 16.33 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 5.77   | 66.49  | 16.12 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.85   | 66.88  | 16.30 |       | 130.0 |         |
|           |                                                        | Z | 5.92   | 66.69  | 16.24 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 5.90   | 66.70  | 16.24 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.96   | 66.97  | 16.37 |       | 130.0 |         |
|           |                                                        | Z | 6.02   | 66.77  | 16.30 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 5.91   | 66.85  | 16.49 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.98   | 67.18  | 16.64 |       | 130.0 |         |
|           |                                                        | Z | 6.03   | 66.94  | 16.56 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 5.75   | 66.52  | 16.20 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.83   | 66.86  | 16.37 |       | 130.0 |         |
|           |                                                        | Z | 5.88   | 66.65  | 16.30 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 5.80   | 66.66  | 16.30 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.88   | 67.03  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 5.94   | 66.85  | 16.42 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 5.94   | 66.78  | 16.33 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00   | 67.06  | 16.46 |       | 130.0 |         |
|           |                                                        | Z | 6.15   | 67.15  | 16.54 |       | 130.0 |         |
| 10646-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 5.05   | 83.78  | 28.65 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 6.98   | 93.27  | 32.89 |       | 60.0  |         |
|           |                                                        | Z | 7.15   | 91.85  | 32.42 |       | 60.0  |         |
| 10647-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 4.54   | 81.82  | 27.99 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.99   | 90.07  | 31.84 |       | 60.0  |         |
|           |                                                        | Z | 6.33   | 89.46  | 31.67 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.37   | 60.00  | 6.05  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.48   | 61.63  | 8.16  |       | 150.0 |         |
|           |                                                        | Z | 0.43   | 60.11  | 6.90  |       | 150.0 |         |
| 10652-AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 2.93   | 65.21  | 15.11 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.20   | 66.58  | 16.05 |       | 80.0  |         |
|           |                                                        | Z | 3.10   | 65.44  | 15.57 |       | 80.0  |         |
| 10653-AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.55   | 64.93  | 15.73 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.74   | 65.80  | 16.31 |       | 80.0  |         |
|           |                                                        | Z | 3.68   | 65.02  | 15.99 |       | 80.0  |         |
| 10654-AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.60   | 64.60  | 15.83 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.76   | 65.39  | 16.34 |       | 80.0  |         |
|           |                                                        | Z | 3.70   | 64.69  | 16.04 |       | 80.0  |         |
| 10655-AAD | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 3.69   | 64.52  | 15.89 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.83   | 65.30  | 16.38 |       | 80.0  |         |
|           |                                                        | Z | 3.78   | 64.64  | 16.09 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 3.48   | 68.63  | 11.85 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 5.65   | 74.45  | 13.80 |       | 50.0  |         |
|           |                                                        | Z | 7.21   | 77.53  | 15.77 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 2.03   | 66.95  | 10.03 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 101.12 | 19.79 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 104.10 | 21.38 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 0.68   | 62.61  | 6.79  | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 101.16 | 18.64 |      | 80.0  |         |
|           |                             | Z | 100.00 | 99.78  | 18.10 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 0.25   | 60.00  | 4.25  | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 102.31 | 18.13 |      | 100.0 |         |
|           |                             | Z | 0.28   | 60.39  | 4.93  |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 6.06   | 60.21  | 1.38  | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 96.37  | 14.68 |      | 120.0 |         |
|           |                             | Z | 9.95   | 60.38  | 1.42  |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity  $\epsilon'$  can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where  $Y$  is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively,  $r^2 = \rho^2 + \rho'^2 - 2\rho\rho' \cos \phi'$ ,  $\omega$  is the angular frequency, and  $j = \sqrt{-1}$ .

**Table D-I**  
**Composition of the Tissue Equivalent Matter**

| Frequency (MHz)           | 750          | 750        | 835   | 835   | 1750 | 1750 | 1900  | 1900  | 2450       | 2450 | 5200-5800  | 5200-5800 |
|---------------------------|--------------|------------|-------|-------|------|------|-------|-------|------------|------|------------|-----------|
| Tissue                    | Head         | Body       | Head  | Body  | Head | Body | Head  | Body  | Head       | Body | Head       | Body      |
| Ingredients (% by weight) |              |            |       |       |      |      |       |       |            |      |            |           |
| Bactericide               | See page 2-3 | See page 2 | 0.1   | 0.1   |      |      |       |       | See page 4 |      | See page 5 |           |
| DGBE                      |              |            |       |       | 47   | 31   | 44.92 | 29.44 |            | 26.7 |            |           |
| HEC                       |              |            | 1     | 1     |      |      |       |       |            |      |            |           |
| NaCl                      |              |            | 1.45  | 0.94  | 0.4  | 0.2  | 0.18  | 0.39  |            | 0.1  |            |           |
| Sucrose                   |              |            | 57    | 44.9  |      |      |       |       |            |      |            |           |
| Polysorbate (Tween) 80    |              |            |       |       |      |      |       |       |            |      |            | 20        |
| Water                     |              |            | 40.45 | 53.06 | 52.6 | 68.8 | 54.9  | 70.17 |            | 73.2 |            | 80        |

|                                    |                                                                                     |                            |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMA600T                 |  | SAR EVALUATION REPORT      |  | Approved by:<br>Quality Manager |
| Test Dates:<br>08/13/18 - 08/27/18 | DUT Type:<br>Portable Handset                                                       | APPENDIX D:<br>Page 1 of 5 |                                                                                       |                                 |

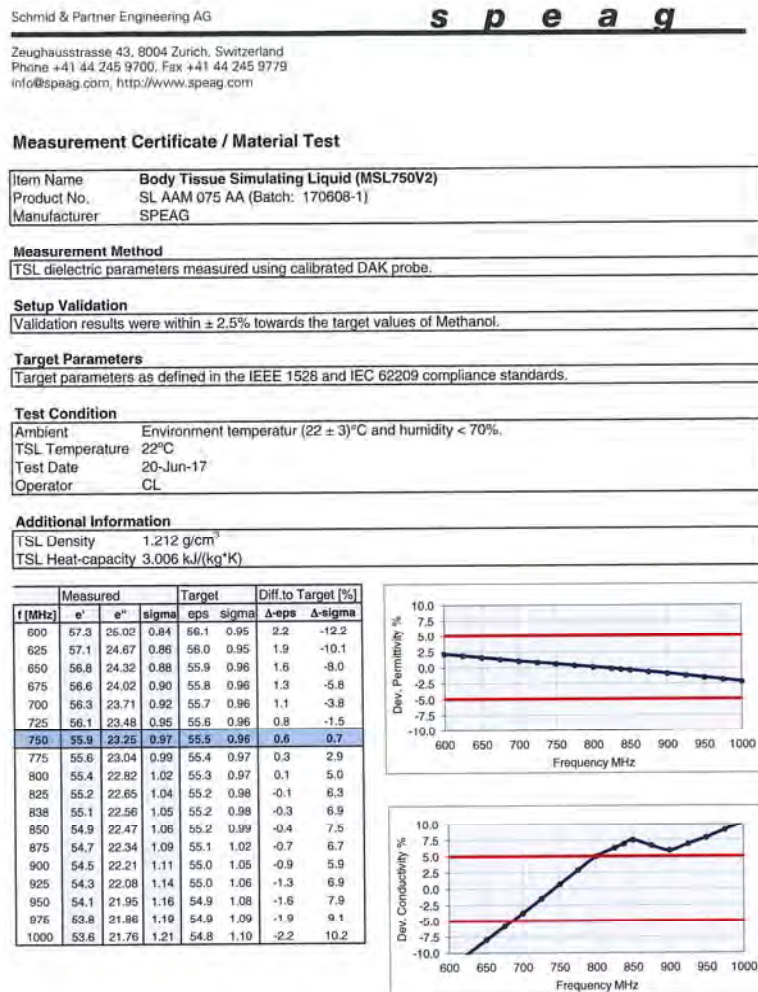
## 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

|                                                                  |                                                                                                                                                     |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| H <sub>2</sub> O                                                 | Water, 35 – 58%                                                                                                                                     |
| Sucrose                                                          | Sugar, white, refined, 40 – 60%                                                                                                                     |
| NaCl                                                             | Sodium Chloride, 0 – 6%                                                                                                                             |
| Hydroxyethyl-cellulose                                           | Medium Viscosity (CAS# 9004-62-0), <0.3%                                                                                                            |
| Preventol-D7                                                     | Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7% |
| Relevant for safety; Refer to the respective Safety Data Sheet*. |                                                                                                                                                     |

**Figure D-1**  
**Composition of 750 MHz Head and Body Tissue Equivalent Matter**

**Note:** 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.



**Figure D-2**  
**750MHz Body Tissue Equivalent Matter**

|                                    |                                                                                     |                            |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMA600T                 |  | SAR EVALUATION REPORT      |  | Approved by:<br>Quality Manager |
| Test Dates:<br>08/13/18 - 08/27/18 | DUT Type:<br>Portable Handset                                                       | APPENDIX D:<br>Page 2 of 5 |                                                                                       |                                 |

**Measurement Certificate / Material Test**

Item Name **Head Tissue Simulating Liquid (HSL750V2)**  
 Product No. SL AAH 075 AA (Batch: 170612-4)  
 Manufacturer SPEAG

**Measurement Method**

TSL dielectric parameters measured using calibrated DAK probe.

**Setup Validation**

Validation results were within  $\pm 2.5\%$  towards the target values of Methanol.

**Target Parameters**

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

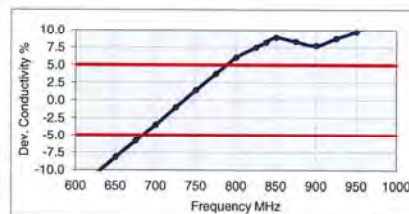
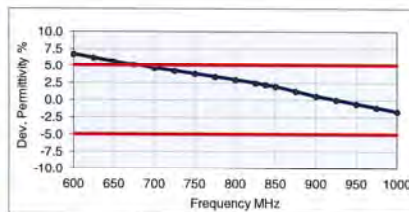
**Test Condition**

Ambient Environment temperatur ( $22 \pm 3^\circ\text{C}$  and humidity  $< 70\%$ ).  
 TSL Temperature  $22^\circ\text{C}$   
 Test Date 20-Jun-17  
 Operator CL

**Additional Information**

TSL Density  $1.284 \text{ g/cm}^3$   
 TSL Heat-capacity  $2.701 \text{ kJ/(kg}^\circ\text{K)}$

|         | Measured |       |       | Target |       | Diff.to Target [%]  |                       |
|---------|----------|-------|-------|--------|-------|---------------------|-----------------------|
| f [MHz] | e'       | e''   | sigma | eps    | sigma | $\Delta\text{-eps}$ | $\Delta\text{-sigma}$ |
| 600     | 45.6     | 22.97 | 0.77  | 42.7   | 0.88  | 6.7                 | -13.1                 |
| 625     | 45.2     | 22.73 | 0.79  | 42.6   | 0.88  | 6.2                 | -10.6                 |
| 650     | 44.9     | 22.49 | 0.81  | 42.5   | 0.89  | 5.6                 | -8.2                  |
| 675     | 44.5     | 22.27 | 0.84  | 42.3   | 0.89  | 5.1                 | -5.8                  |
| 700     | 44.2     | 22.05 | 0.86  | 42.2   | 0.89  | 4.6                 | -3.5                  |
| 725     | 43.8     | 21.88 | 0.88  | 42.1   | 0.89  | 4.2                 | -1.0                  |
| 750     | 43.5     | 21.72 | 0.91  | 41.9   | 0.89  | 3.8                 | 1.4                   |
| 775     | 43.2     | 21.55 | 0.93  | 41.8   | 0.90  | 3.4                 | 3.7                   |
| 800     | 42.9     | 21.38 | 0.95  | 41.7   | 0.90  | 2.9                 | 6.0                   |
| 825     | 42.6     | 21.24 | 0.97  | 41.6   | 0.91  | 2.4                 | 7.5                   |
| 838     | 42.5     | 21.17 | 0.99  | 41.5   | 0.91  | 2.2                 | 8.2                   |
| 850     | 42.3     | 21.09 | 1.00  | 41.5   | 0.92  | 2.0                 | 8.9                   |
| 875     | 42.0     | 20.98 | 1.02  | 41.5   | 0.94  | 1.2                 | 8.3                   |
| 900     | 41.7     | 20.87 | 1.05  | 41.5   | 0.97  | 0.5                 | 7.7                   |
| 925     | 41.5     | 20.76 | 1.07  | 41.5   | 0.98  | 0.0                 | 8.7                   |
| 950     | 41.2     | 20.64 | 1.09  | 41.4   | 0.99  | -0.6                | 9.7                   |
| 975     | 40.9     | 20.55 | 1.11  | 41.4   | 1.00  | -1.1                | 10.9                  |
| 1000    | 40.6     | 20.46 | 1.14  | 41.3   | 1.01  | -1.7                | 12.1                  |



**Figure D-3**  
**750MHz Head Tissue Equivalent Matter**

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMA600T                 |  | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Test Dates:<br>08/13/18 - 08/27/18 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX D:<br>Page 3 of 5      |

### 3 Composition / Information on ingredients

The Item is composed of the following ingredients:

|                      |              |                                     |
|----------------------|--------------|-------------------------------------|
| Water                | 50 – 73 %    |                                     |
| Non-ionic detergents | 25 – 50 %    | polyoxyethylenesorbitan monolaurate |
| NaCl                 | 0 – 2 %      |                                     |
| Preservative         | 0.05 – 0.1 % | Preventol-D7                        |

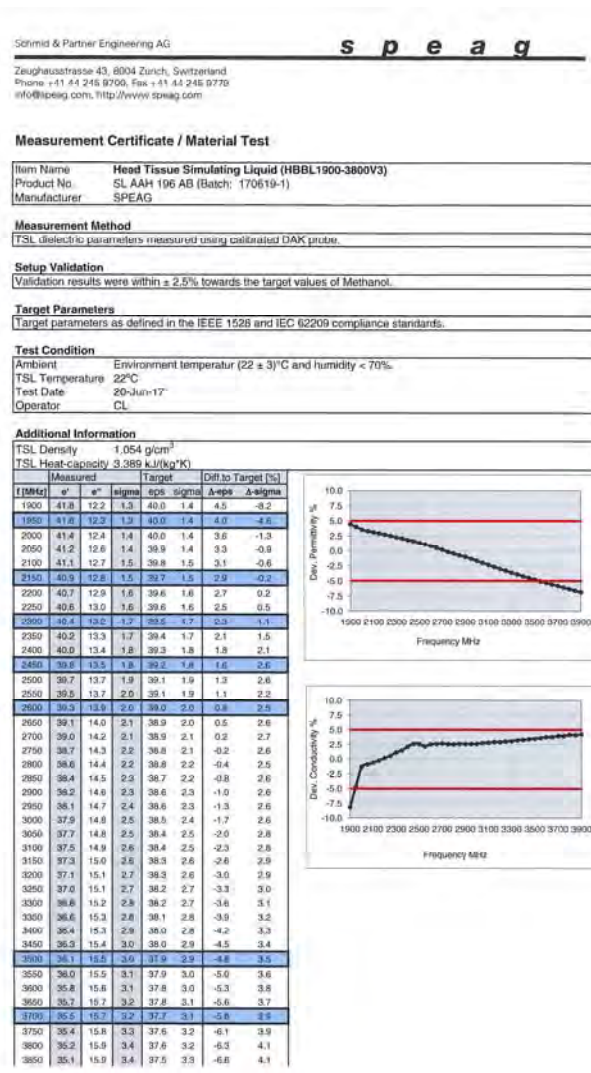
Safety relevant ingredients:

|                    |         |                                                                                                        |
|--------------------|---------|--------------------------------------------------------------------------------------------------------|
| CAS-No. 55965-84-9 | < 0.1 % | aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone |
| CAS-No. 9005-64-5  | < 50 %  | polyoxyethylenesorbitan monolaurate                                                                    |

According to international guidelines, the product is not a dangerous mixture and therefore not required to be marked by symbols.

**Figure D-4**  
**Composition of 2.4 GHz Head Tissue Equivalent Matter**

**Note:** 2.4 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.



**Figure D-5**  
**2.4 GHz Head Tissue Equivalent Matter**

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMA600T                 |  | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Test Dates:<br>08/13/18 - 08/27/18 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX D:<br>Page 4 of 5      |

## 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

|             |          |
|-------------|----------|
| Water       | 50 – 65% |
| Mineral oil | 10 – 30% |
| Emulsifiers | 8 – 25%  |
| Sodium salt | 0 – 1.5% |

Figure D-6

### Composition of 5 GHz Head Tissue Equivalent Matter

**Note:** 5GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

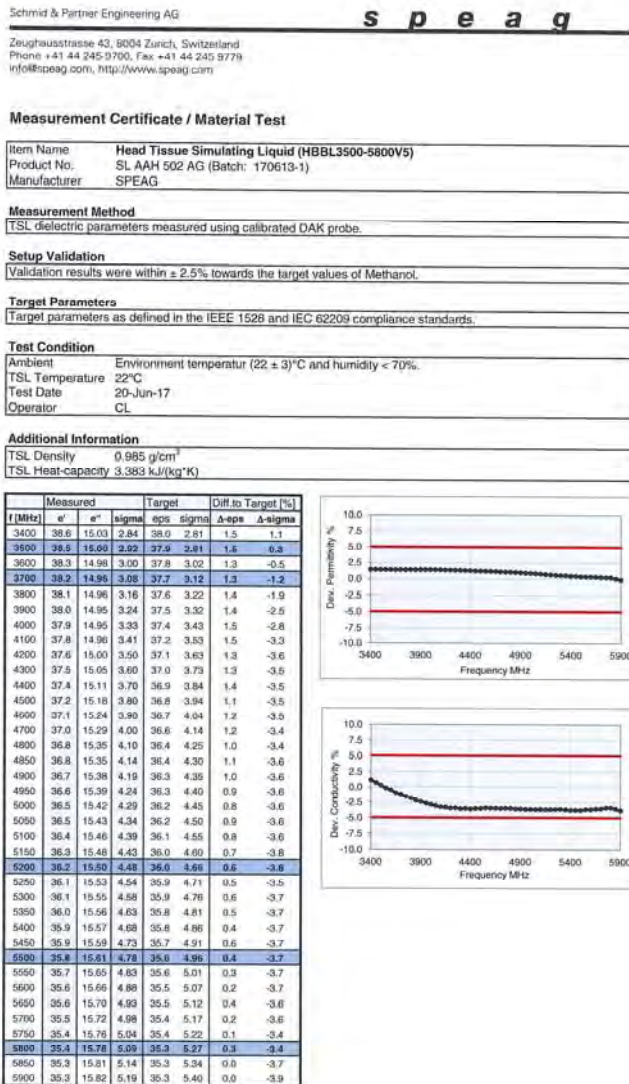


Figure D-7  
5GHz Head Tissue Equivalent Matter

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMA600T                 |  | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Test Dates:<br>08/13/18 - 08/27/18 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX D:<br>Page 5 of 5      |

## APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

**Table E-1**  
**SAR System Validation Summary**

| SAR SYSTEM # | FREQ. [MHz] | DATE      | PROBE SN | PROBE TYPE | PROBE CAL. POINT |      | COND. | PERM.  | CW VALIDATION |                 |                | MOD. VALIDATION |             |      |
|--------------|-------------|-----------|----------|------------|------------------|------|-------|--------|---------------|-----------------|----------------|-----------------|-------------|------|
|              |             |           |          |            |                  |      | (σ)   | (εr)   | SENSITIVITY   | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE       | DUTY FACTOR | PAR  |
| E            | 750         | 3/11/2018 | 3213     | ES3DV3     | 750              | Head | 0.890 | 40.788 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| E            | 835         | 3/5/2018  | 3213     | ES3DV3     | 835              | Head | 0.925 | 43.335 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| H            | 1750        | 7/16/2018 | 7409     | EX3DV4     | 1750             | Head | 1.331 | 41.186 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| H            | 1900        | 7/16/2018 | 7409     | EX3DV4     | 1900             | Head | 1.425 | 40.935 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| G            | 2450        | 8/7/2018  | 7410     | EX3DV4     | 2450             | Head | 1.839 | 39.586 | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| E            | 2600        | 8/7/2018  | 3213     | ES3DV3     | 2600             | Head | 1.955 | 38.813 | PASS          | PASS            | PASS           | TDD             | PASS        | N/A  |
| H            | 5250        | 7/5/2018  | 7409     | EX3DV4     | 5250             | Head | 4.492 | 34.994 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| H            | 5600        | 7/5/2018  | 7409     | EX3DV4     | 5600             | Head | 4.839 | 34.496 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| H            | 5750        | 7/5/2018  | 7409     | EX3DV4     | 5750             | Head | 4.995 | 34.288 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| H            | 750         | 7/11/2018 | 7409     | EX3DV4     | 750              | Body | 0.965 | 54.140 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| I            | 835         | 8/8/2018  | 7406     | EX3DV4     | 835              | Body | 0.980 | 53.497 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| K            | 1750        | 4/20/2018 | 3319     | ES3DV3     | 1750             | Body | 1.500 | 51.450 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| E            | 1750        | 7/24/2018 | 3213     | ES3DV3     | 1750             | Body | 1.488 | 50.923 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| I            | 1750        | 7/30/2018 | 7406     | EX3DV4     | 1750             | Body | 1.518 | 52.691 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| I            | 1900        | 6/18/2018 | 7406     | EX3DV4     | 1900             | Body | 1.575 | 51.579 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| E            | 1900        | 8/9/2018  | 3213     | ES3DV3     | 1900             | Body | 1.570 | 51.136 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| K            | 2450        | 4/3/2018  | 3319     | ES3DV3     | 2450             | Body | 2.043 | 51.130 | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| K            | 2600        | 4/3/2018  | 3319     | ES3DV3     | 2600             | Body | 2.225 | 50.665 | PASS          | PASS            | PASS           | TDD             | PASS        | N/A  |
| D            | 5250        | 6/11/2018 | 7357     | EX3DV4     | 5250             | Body | 5.529 | 48.096 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| D            | 5600        | 6/11/2018 | 7357     | EX3DV4     | 5600             | Body | 6.007 | 47.521 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| D            | 5750        | 6/11/2018 | 7357     | EX3DV4     | 5750             | Body | 6.214 | 47.275 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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## APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

### G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

### G.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were confirmed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Steps 1 and 2 were repeated for low, mid, and high bands, as appropriate (see note below Table G-2 for more details).
4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

|                                        |                                                                                                                                   |                       |                                                                                       |                                 |
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### G.3 Main Antenna Verification Summary

**Table G-1**  
**Power Measurement Verification for Main Antenna**

| Mechanism(s) | Mode/Band       | Conducted Power (dBm) |                        |
|--------------|-----------------|-----------------------|------------------------|
|              |                 | Un-triggered (Max)    | Mechanism #1 (Reduced) |
| Hotspot On   | UMTS 1750       | 23.59                 | 19.69                  |
| Hotspot On   | UMTS 1900       | 22.37                 | 18.34                  |
| Hotspot On   | LTE FDD Band 66 | 23.89                 | 20.09                  |
| Hotspot On   | LTE FDD Band 4  | 23.96                 | 19.81                  |
| Hotspot On   | LTE FDD Band 2  | 22.67                 | 19.16                  |
| Hotspot On   | LTE FDD Band 7  | 22.93                 | 19.82                  |

### G.4 WIFI Verification Summary

**Table G-2**  
**Power Measurement Verification WIFI**

| Mechanism(s) | Mode/Band                | Conducted Power (dBm) |                        |
|--------------|--------------------------|-----------------------|------------------------|
|              |                          | Un-triggered (Max)    | Mechanism #1 (Reduced) |
| Held-to-Ear  | 802.11b                  | 20.95                 | 15.70                  |
| Held-to-Ear  | 802.11g                  | 19.79                 | 15.98                  |
| Held-to-Ear  | 802.11n (2.4GHz)         | 19.94                 | 15.87                  |
| Held-to-Ear  | 802.11a                  | 17.82                 | 13.55                  |
| Held-to-Ear  | 802.11n (5GHz, 20MHz BW) | 16.54                 | 13.12                  |
| Held-to-Ear  | 802.11ac (20MHz BW)      | 18.49                 | 11.98                  |
| Held-to-Ear  | 802.11n (5GHz, 40MHz BW) | 15.35                 | 12.97                  |
| Held-to-Ear  | 802.11ac (40MHz BW)      | 14.65                 | 11.64                  |

**Table G-3**  
**Distance Measurement Verification for WIFI**

| Mechanism(s) | Test Condition     | Band   | Distance Measurements (mm) |             | Minimum Distance per Manufacturer (mm) |
|--------------|--------------------|--------|----------------------------|-------------|----------------------------------------|
|              |                    |        | Moving Toward              | Moving Away |                                        |
| Held-to-Ear  | Head - Right Cheek | 2.4GHz | 51                         | 71          | 50                                     |
| Held-to-Ear  | Head - Right Cheek | 5GHz   | 52                         | 71          | 50                                     |
| Held-to-Ear  | Head - Left Cheek  | 2.4GHz | 52                         | 73          | 50                                     |
| Held-to-Ear  | Head - Left Cheek  | 5GHz   | 51                         | 73          | 50                                     |

|                                               |                                                                                                                                                                                                        |                                        |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
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## APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

### 1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA\_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.

Table 1 – Example of Exclusion Table for SISO Configurations

| Index   | CC    | Supported Component Carriers (CCs) | Restrictions | Completely Covered by Measurement Superset |
|---------|-------|------------------------------------|--------------|--------------------------------------------|
| CC1-1   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-2   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-3   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-4   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-5   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-6   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-7   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-8   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-9   | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-10  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-11  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-12  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-13  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-14  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-15  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-16  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-17  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-18  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-19  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-20  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-21  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-22  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-23  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-24  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-25  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-26  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-27  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-28  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-29  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-30  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-31  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-32  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-33  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-34  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-35  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-36  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-37  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-38  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-39  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-40  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-41  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-42  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-43  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-44  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-45  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-46  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-47  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-48  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-49  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-50  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-51  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-52  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-53  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-54  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-55  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-56  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-57  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-58  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-59  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-60  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-61  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-62  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-63  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-64  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-65  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-66  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-67  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-68  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-69  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-70  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-71  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-72  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-73  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-74  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-75  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-76  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-77  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-78  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-79  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-80  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-81  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-82  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-83  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-84  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-85  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-86  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-87  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-88  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-89  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-90  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-91  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-92  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-93  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-94  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-95  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-96  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-97  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-98  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-99  | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |
| CC1-100 | CA_1A | 1.4A, 1.4A, 1.4A                   |              | Yes                                        |

### 1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

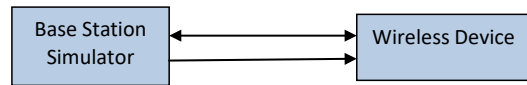
SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

General PCC and SCC configuration selection procedure

|                                        |                                                                                                                                   |                       |                                                                                       |                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KBD 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.



**Figure 1**  
**DL CA Power Measurement Setup**

## 1.3 Downlink Carrier Aggregation RF Conducted Powers

### 1.3.1 LTE Band 71 as PCC

**Table 1**  
**Maximum Output Powers**

| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|-------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-71A   | LTE B71  | 20           | 133297           | 680.5                | QPSK       | 1          | 0                | 68761        | 634.5                | LTE B2   | 20           | 900          | 1960                 | 24.45                                 | 24.40                             |
| CA_4A-71A   | LTE B71  | 20           | 133297           | 680.5                | QPSK       | 1          | 0                | 68761        | 634.5                | LTE B4   | 20           | 2175         | 2132.5               | 24.47                                 | 24.40                             |
| CA_66A-71A  | LTE B71  | 20           | 133297           | 680.5                | QPSK       | 1          | 0                | 68761        | 634.5                | LTE B66  | 20           | 66786        | 2145                 | 24.43                                 | 24.40                             |

### 1.3.2 LTE Band 12 as PCC

**Table 2**  
**Maximum Output Powers**

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|----------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-12A (1)  | LTE B12  | 5            | 23095            | 707.5                | QPSK       | 1          | 0                | 5095         | 737.5                | LTE B2   | 20           | 900          | 1960                 | 24.73                                 | 24.69                             |
| CA_4A-12A (1)  | LTE B12  | 5            | 23095            | 707.5                | QPSK       | 1          | 0                | 5095         | 737.5                | LTE B4   | 20           | 2175         | 2132.5               | 24.71                                 | 24.69                             |
| CA_4A-12A (2)  | LTE B12  | 5            | 23095            | 707.5                | QPSK       | 1          | 0                | 5095         | 737.5                | LTE B4   | 20           | 2175         | 2132.5               | 24.74                                 | 24.69                             |
| CA_12A-66A (1) | LTE B12  | 5            | 23095            | 707.5                | QPSK       | 1          | 0                | 5095         | 737.5                | LTE B66  | 20           | 66786        | 2145                 | 24.66                                 | 24.69                             |
| CA_12A-66A (2) | LTE B12  | 5            | 23095            | 707.5                | QPSK       | 1          | 0                | 5095         | 737.5                | LTE B66  | 20           | 66786        | 2145                 | 24.67                                 | 24.69                             |

|                                               |                                                                                                                                   |                              |                                                                                       |                                        |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>08/13/2018 – 08/27/2018 | <b>DUT Type:</b><br>Portable Handset                                                                                              |                              |                                                                                       | <b>APPENDIX H:</b><br>Page 2 of 4      |

### 1.3.3 LTE Band 5 as PCC

**Table 3**  
**Maximum Output Powers**

| Combination  | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|--------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-5A     | LTE B5   | 5            | 20525            | 836.5                | QPSK       | 1          | 12               | 2525         | 881.5                | LTE B2   | 20           | 900          | 1960                 | 24.41                                 | 24.44                             |
| CA_4A-5A (1) | LTE B5   | 5            | 20525            | 836.5                | QPSK       | 1          | 12               | 2525         | 881.5                | LTE B4   | 20           | 2175         | 2132.5               | 24.39                                 | 24.44                             |

### 1.3.4 LTE Band 4 as PCC

**Table 4**  
**Maximum Output Powers**

| Combination   | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|---------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-4A      | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B2   | 20           | 900          | 1960                 | 23.92                                 | 23.96                             |
| CA_4A-4A      | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B4   | 20           | 2050         | 2120                 | 23.95                                 | 23.96                             |
| CA_4A-5A (1)  | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B5   | 10           | 2525         | 881.5                | 23.93                                 | 23.96                             |
| CA_4A-12A (1) | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 23.98                                 | 23.96                             |
| CA_4A-12A (2) | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 23.98                                 | 23.96                             |
| CA_4A-71A     | LTE B4   | 20           | 20300            | 1745                 | QPSK       | 1          | 99               | 2300         | 2145                 | LTE B71  | 20           | 68761        | 634.5                | 23.93                                 | 23.96                             |

**Table 5**  
**Reduced Output Powers**

| Combination   | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|---------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-4A      | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B2   | 20           | 900          | 1960                 | 20.24                                 | 20.23                             |
| CA_4A-4A      | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B4   | 20           | 2050         | 2120                 | 20.22                                 | 20.23                             |
| CA_4A-5A (1)  | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B5   | 10           | 2525         | 881.5                | 20.23                                 | 20.23                             |
| CA_4A-12A (1) | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 20.21                                 | 20.23                             |
| CA_4A-12A (2) | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 20.21                                 | 20.23                             |
| CA_4A-71A     | LTE B4   | 10           | 20300            | 1745                 | 16QAM      | 25         | 25               | 2300         | 2145                 | LTE B71  | 20           | 68761        | 634.5                | 20.20                                 | 20.23                             |

FCC ID: A3LSMA600T



SAR EVALUATION REPORT



Reviewed by:  
Quality Manager

Test Dates:  
08/13/2018 – 08/27/2018

DUT Type:  
Portable Handset

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### 1.3.5 LTE Band 66 as PCC

**Table 6**  
**Maximum Output Powers**

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|----------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-66A      | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B2   | 20           | 900          | 1960                 | 23.93                                 | 23.96                             |
| CA_12A-66A (1) | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B12  | 10           | 5095         | 737.5                | 23.90                                 | 23.96                             |
| CA_12A-66A (2) | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B12  | 10           | 5095         | 737.5                | 23.90                                 | 23.96                             |
| CA_66A-66A     | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B66  | 20           | 66536        | 2120                 | 23.93                                 | 23.96                             |
| CA_66A-71A     | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B71  | 20           | 68761        | 634.5                | 23.90                                 | 23.96                             |
| CA_66B         | LTE B66  | 15           | 132597           | 1772.5               | QPSK       | 1          | 36               | 67061        | 2172.5               | LTE B66  | 5            | 66968        | 2163.2               | 23.80                                 | 23.82                             |
| CA_66C         | LTE B66  | 20           | 132572           | 1770                 | QPSK       | 1          | 99               | 67036        | 2170                 | LTE B66  | 20           | 66838        | 2150.2               | 23.92                                 | 23.96                             |

**Table 7**  
**Reduced Output Powers**

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|----------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-66A      | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B2   | 20           | 900          | 1960                 | 20.24                                 | 20.23                             |
| CA_12A-66A (1) | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 20.27                                 | 20.23                             |
| CA_12A-66A (2) | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B12  | 10           | 5095         | 737.5                | 20.27                                 | 20.23                             |
| CA_66A-66A     | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B66  | 20           | 67236        | 2190                 | 20.22                                 | 20.23                             |
| CA_66A-71A     | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B71  | 20           | 68761        | 634.5                | 20.26                                 | 20.23                             |
| CA_66B         | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B66  | 10           | 66687        | 2135.1               | 20.21                                 | 20.23                             |
| CA_66C         | LTE B66  | 10           | 132322           | 1745                 | 16QAM      | 25         | 25               | 66786        | 2145                 | LTE B66  | 20           | 66642        | 2130.6               | 20.23                                 | 20.23                             |

### 1.3.6 LTE Band 2 as PCC

**Table 8**  
**Maximum Output Powers**

| Combination   | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|---------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-2A      | LTE B2   | 10           | 19150            | 1905                 | QPSK       | 1          | 0                | 1150         | 1985                 | LTE B2   | 20           | 700          | 1940                 | 22.76                                 | 22.80                             |
| CA_2A-4A      | LTE B2   | 1.4          | 19193            | 1909.3               | QPSK       | 1          | 0                | 1193         | 1989.3               | LTE B4   | 20           | 2175         | 2132.5               | 22.77                                 | 22.84                             |
| CA_2A-5A      | LTE B2   | 10           | 19150            | 1905                 | QPSK       | 1          | 0                | 1150         | 1985                 | LTE B5   | 10           | 2525         | 881.5                | 22.80                                 | 22.80                             |
| CA_2A-12A (1) | LTE B2   | 10           | 19150            | 1905                 | QPSK       | 1          | 0                | 1150         | 1985                 | LTE B12  | 10           | 5095         | 737.5                | 22.82                                 | 22.80                             |
| CA_2A-66A     | LTE B2   | 1.4          | 19193            | 1909.3               | QPSK       | 1          | 0                | 1193         | 1989.3               | LTE B66  | 20           | 66786        | 2145                 | 22.72                                 | 22.84                             |
| CA_2A-71A     | LTE B2   | 10           | 19150            | 1905                 | QPSK       | 1          | 0                | 1150         | 1985                 | LTE B71  | 20           | 68761        | 634.5                | 22.75                                 | 22.80                             |

**Table 9**  
**Reduced Output Powers**

| Combination   | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|---------------|----------|--------------|------------------|----------------------|------------|------------|------------------|--------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|
| CA_2A-2A      | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B2   | 20           | 700          | 1940                 | 19.43                                 | 19.42                             |
| CA_2A-4A      | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B4   | 20           | 2175         | 2132.5               | 19.39                                 | 19.42                             |
| CA_2A-5A      | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B5   | 10           | 2525         | 881.5                | 19.28                                 | 19.42                             |
| CA_2A-12A (1) | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B12  | 10           | 5095         | 737.5                | 19.37                                 | 19.42                             |
| CA_2A-66A     | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B66  | 20           | 66786        | 2145                 | 19.34                                 | 19.42                             |
| CA_2A-71A     | LTE B2   | 20           | 19100            | 1900                 | 16QAM      | 1          | 50               | 1100         | 1980                 | LTE B71  | 20           | 68761        | 634.5                | 19.33                                 | 19.42                             |

|                                        |                                                                                     |                       |                                                                                       |                                 |
|----------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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