

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 27.96 | 102.87 | 29.18 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.44 | 87.52  | 23.87 |      | 65.0 |         |
|           |                                            | Z | 15.71 | 93.66  | 26.31 |      | 65.0 |         |
| 10240-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 30.81 | 112.13 | 34.32 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.98 | 91.70  | 27.41 |      | 65.0 |         |
|           |                                            | Z | 16.97 | 101.15 | 31.03 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 10.73 | 84.56  | 26.77 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.92  | 80.64  | 24.62 |      | 65.0 |         |
|           |                                            | Z | 9.45  | 82.27  | 25.74 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 9.86  | 82.68  | 25.94 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.43  | 79.43  | 24.03 |      | 65.0 |         |
|           |                                            | Z | 8.23  | 79.26  | 24.42 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 7.95  | 79.70  | 25.63 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.01  | 76.96  | 23.85 |      | 65.0 |         |
|           |                                            | Z | 6.83  | 76.68  | 24.20 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 8.92  | 80.61  | 21.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.38  | 74.71  | 17.99 |      | 65.0 |         |
|           |                                            | Z | 7.09  | 76.76  | 19.30 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 8.77  | 80.08  | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.31  | 74.31  | 17.79 |      | 65.0 |         |
|           |                                            | Z | 7.00  | 76.31  | 19.08 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 9.76  | 85.21  | 22.98 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.48  | 78.09  | 19.55 |      | 65.0 |         |
|           |                                            | Z | 7.97  | 81.80  | 21.40 |      | 65.0 |         |
| 10247-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 7.32  | 78.07  | 20.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.99  | 74.48  | 18.76 |      | 65.0 |         |
|           |                                            | Z | 6.57  | 76.31  | 19.95 |      | 65.0 |         |
| 10248-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 7.29  | 77.48  | 20.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.99  | 74.02  | 18.56 |      | 65.0 |         |
|           |                                            | Z | 6.57  | 75.80  | 19.73 |      | 65.0 |         |
| 10249-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 10.59 | 86.69  | 24.09 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.55  | 80.63  | 21.24 |      | 65.0 |         |
|           |                                            | Z | 9.11  | 84.21  | 22.99 |      | 65.0 |         |
| 10250-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 8.03  | 79.52  | 22.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.94  | 76.83  | 21.11 |      | 65.0 |         |
|           |                                            | Z | 7.45  | 78.36  | 22.12 |      | 65.0 |         |
| 10251-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 7.54  | 77.16  | 21.44 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.59  | 74.73  | 19.93 |      | 65.0 |         |
|           |                                            | Z | 7.07  | 76.22  | 20.95 |      | 65.0 |         |
| 10252-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 9.85  | 84.64  | 23.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.81  | 80.48  | 21.96 |      | 65.0 |         |
|           |                                            | Z | 8.91  | 83.13  | 23.34 |      | 65.0 |         |
| 10253-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 7.43  | 76.05  | 21.22 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.62  | 73.96  | 19.92 |      | 65.0 |         |
|           |                                            | Z | 7.02  | 75.23  | 20.84 |      | 65.0 |         |
| 10254-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 7.79  | 76.80  | 21.83 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.01  | 74.87  | 20.62 |      | 65.0 |         |
|           |                                            | Z | 7.39  | 76.02  | 21.48 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 8.48 | 80.28 | 22.51 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.26 | 77.53 | 21.06 |      | 65.0 |         |
|           |                                             | Z | 7.88 | 79.24 | 22.10 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 7.89 | 78.39 | 19.61 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.25 | 71.62 | 15.79 |      | 65.0 |         |
|           |                                             | Z | 5.93 | 73.77 | 17.18 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 7.70 | 77.63 | 19.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.18 | 71.12 | 15.49 |      | 65.0 |         |
|           |                                             | Z | 5.83 | 73.17 | 16.85 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 8.39 | 82.43 | 21.42 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.23 | 74.52 | 17.44 |      | 65.0 |         |
|           |                                             | Z | 6.41 | 77.99 | 19.28 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 7.58 | 78.51 | 21.52 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.36 | 75.32 | 19.59 |      | 65.0 |         |
|           |                                             | Z | 6.92 | 77.04 | 20.72 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 7.59 | 78.21 | 21.43 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.39 | 75.11 | 19.52 |      | 65.0 |         |
|           |                                             | Z | 6.94 | 76.76 | 20.62 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 9.73 | 84.99 | 23.78 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.33 | 79.88 | 21.31 |      | 65.0 |         |
|           |                                             | Z | 8.59 | 82.98 | 22.89 |      | 65.0 |         |
| 10262-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 8.02 | 79.49 | 22.65 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.93 | 76.77 | 21.07 |      | 65.0 |         |
|           |                                             | Z | 7.44 | 78.32 | 22.09 |      | 65.0 |         |
| 10263-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 7.54 | 77.15 | 21.44 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.58 | 74.72 | 19.93 |      | 65.0 |         |
|           |                                             | Z | 7.06 | 76.21 | 20.95 |      | 65.0 |         |
| 10264-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 9.77 | 84.48 | 23.87 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.74 | 80.30 | 21.87 |      | 65.0 |         |
|           |                                             | Z | 8.83 | 82.96 | 23.26 |      | 65.0 |         |
| 10265-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 7.68 | 76.78 | 21.47 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.78 | 74.50 | 20.13 |      | 65.0 |         |
|           |                                             | Z | 7.23 | 75.88 | 21.08 |      | 65.0 |         |
| 10266-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 8.03 | 77.49 | 22.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.19 | 75.45 | 20.89 |      | 65.0 |         |
|           |                                             | Z | 7.59 | 76.66 | 21.75 |      | 65.0 |         |
| 10267-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 8.87 | 80.82 | 22.44 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.54 | 77.97 | 21.01 |      | 65.0 |         |
|           |                                             | Z | 8.21 | 79.70 | 22.02 |      | 65.0 |         |
| 10268-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 8.11 | 76.14 | 21.52 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.39 | 74.43 | 20.49 |      | 65.0 |         |
|           |                                             | Z | 7.73 | 75.42 | 21.26 |      | 65.0 |         |
| 10269-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.01 | 75.65 | 21.40 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.35 | 74.05 | 20.40 |      | 65.0 |         |
|           |                                             | Z | 7.66 | 74.98 | 21.15 |      | 65.0 |         |
| 10270-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 8.25 | 77.70 | 21.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.38 | 75.77 | 20.30 |      | 65.0 |         |
|           |                                             | Z | 7.78 | 76.86 | 21.07 |      | 65.0 |         |

|           |                                                                    |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.77  | 67.19  | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.64  | 66.58  | 15.47 |      | 150.0 |         |
|           |                                                                    | Z | 2.76  | 67.24  | 16.17 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.99  | 71.22  | 17.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.69  | 68.45  | 15.99 |      | 150.0 |         |
|           |                                                                    | Z | 1.97  | 71.21  | 17.76 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 3.95  | 66.26  | 11.53 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.40  | 64.37  | 10.05 |      | 50.0  |         |
|           |                                                                    | Z | 3.52  | 64.82  | 10.44 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 9.50  | 82.04  | 21.06 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.88  | 73.64  | 16.95 |      | 50.0  |         |
|           |                                                                    | Z | 6.77  | 76.19  | 18.31 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 9.74  | 82.30  | 21.18 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 6.01  | 73.86  | 17.07 |      | 50.0  |         |
|           |                                                                    | Z | 6.94  | 76.45  | 18.45 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.46  | 75.89  | 18.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.70  | 70.53  | 15.31 |      | 150.0 |         |
|           |                                                                    | Z | 2.51  | 76.41  | 18.31 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.43  | 73.44  | 17.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.94  | 67.24  | 13.73 |      | 150.0 |         |
|           |                                                                    | Z | 1.43  | 73.68  | 17.27 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 2.54  | 83.69  | 21.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.31  | 72.90  | 16.74 |      | 150.0 |         |
|           |                                                                    | Z | 3.10  | 86.65  | 22.62 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 5.51  | 96.81  | 26.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.37  | 82.04  | 20.81 |      | 150.0 |         |
|           |                                                                    | Z | 10.35 | 106.52 | 29.20 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 9.44  | 83.93  | 24.34 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 7.87  | 79.51  | 21.75 |      | 50.0  |         |
|           |                                                                    | Z | 9.25  | 83.02  | 23.54 |      | 50.0  |         |
| 10297-AAA | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 3.28  | 72.16  | 18.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.89  | 70.22  | 16.91 |      | 150.0 |         |
|           |                                                                    | Z | 3.20  | 71.91  | 18.01 |      | 150.0 |         |
| 10298-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 2.27  | 72.51  | 17.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.77  | 69.05  | 15.22 |      | 150.0 |         |
|           |                                                                    | Z | 2.21  | 72.49  | 17.28 |      | 150.0 |         |
| 10299-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 4.06  | 75.54  | 18.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.68  | 69.58  | 14.66 |      | 150.0 |         |
|           |                                                                    | Z | 3.14  | 72.15  | 16.34 |      | 150.0 |         |
| 10300-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.85  | 69.32  | 14.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.07  | 65.38  | 11.94 |      | 150.0 |         |
|           |                                                                    | Z | 2.31  | 66.88  | 13.18 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.31  | 66.56  | 18.30 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.93  | 65.62  | 17.58 |      | 50.0  |         |
|           |                                                                    | Z | 5.14  | 66.28  | 18.23 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.77  | 67.22  | 19.08 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.49  | 66.54  | 18.44 |      | 50.0  |         |
|           |                                                                    | Z | 5.67  | 67.11  | 19.07 |      | 50.0  |         |



|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.57 | 67.12 | 19.08 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.28 | 66.33 | 18.36 |       | 50.0  |         |
|           |                                                                     | Z | 5.45 | 66.95 | 19.03 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.30 | 66.69 | 18.39 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.03 | 66.04 | 17.78 |       | 50.0  |         |
|           |                                                                     | Z | 5.19 | 66.56 | 18.37 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 5.63 | 71.93 | 22.51 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.27 | 70.54 | 21.19 |       | 35.0  |         |
|           |                                                                     | Z | 5.53 | 71.86 | 22.37 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 5.51 | 68.34 | 20.47 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.28 | 68.28 | 20.17 |       | 35.0  |         |
|           |                                                                     | Z | 5.45 | 69.07 | 21.03 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 5.58 | 69.87 | 21.34 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.26 | 68.80 | 20.30 |       | 35.0  |         |
|           |                                                                     | Z | 5.46 | 69.72 | 21.22 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 5.57 | 70.16 | 21.52 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.26 | 69.09 | 20.47 |       | 35.0  |         |
|           |                                                                     | Z | 5.46 | 70.04 | 21.41 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 5.61 | 68.67 | 20.66 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.36 | 68.54 | 20.32 |       | 35.0  |         |
|           |                                                                     | Z | 5.55 | 69.42 | 21.23 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 5.54 | 69.37 | 21.16 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.26 | 68.47 | 20.19 |       | 35.0  |         |
|           |                                                                     | Z | 5.43 | 69.29 | 21.07 |       | 35.0  |         |
| 10311-AAA | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.66 | 71.33 | 17.55 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.26 | 69.52 | 16.56 |       | 150.0 |         |
|           |                                                                     | Z | 3.57 | 70.98 | 17.52 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 6.85 | 78.71 | 18.49 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 4.53 | 72.96 | 16.00 |       | 70.0  |         |
|           |                                                                     | Z | 5.50 | 75.94 | 17.40 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 9.77 | 87.07 | 24.06 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 5.71 | 78.26 | 20.69 |       | 30.0  |         |
|           |                                                                     | Z | 7.05 | 82.07 | 22.32 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.19 | 65.68 | 16.83 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.12 | 64.25 | 15.52 |       | 150.0 |         |
|           |                                                                     | Z | 1.18 | 65.51 | 16.80 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.80 | 66.91 | 16.63 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 66.67 | 16.32 |       | 150.0 |         |
|           |                                                                     | Z | 4.75 | 66.85 | 16.68 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.80 | 66.91 | 16.63 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 66.67 | 16.32 |       | 150.0 |         |
|           |                                                                     | Z | 4.75 | 66.85 | 16.68 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.95 | 67.29 | 16.62 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.78 | 67.03 | 16.34 |       | 150.0 |         |
|           |                                                                     | Z | 4.89 | 67.24 | 16.70 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.54 | 67.24 | 16.62 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.44 | 67.14 | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 5.55 | 67.32 | 16.79 |       | 150.0 |         |



|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.86   | 67.84  | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.72   | 67.59  | 16.52 |      | 150.0 |         |
|           |                                                                                | Z | 5.84   | 67.77  | 16.85 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 2.46   | 75.89  | 18.44 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.70   | 70.53  | 15.31 |      | 115.0 |         |
|           |                                                                                | Z | 2.51   | 76.41  | 18.31 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 2.46   | 75.89  | 18.44 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.70   | 70.53  | 15.31 |      | 115.0 |         |
|           |                                                                                | Z | 2.51   | 76.41  | 18.31 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 100.00 | 125.61 | 32.60 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 18.10  | 99.77  | 25.60 |      | 100.0 |         |
|           |                                                                                | Z | 61.65  | 120.85 | 31.82 |      | 100.0 |         |
| 10410-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 1.04   | 60.00  | 5.14  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 0.89   | 60.00  | 4.65  |      | 80.0  |         |
|           |                                                                                | Z | 0.91   | 60.00  | 4.76  |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.07   | 64.33  | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.02   | 63.20  | 14.92 |      | 150.0 |         |
|           |                                                                                | Z | 1.07   | 64.28  | 16.13 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.73   | 66.87  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.60   | 66.69  | 16.29 |      | 150.0 |         |
|           |                                                                                | Z | 4.69   | 66.84  | 16.64 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.73   | 66.87  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.60   | 66.69  | 16.29 |      | 150.0 |         |
|           |                                                                                | Z | 4.69   | 66.84  | 16.64 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.72   | 67.02  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.59   | 66.84  | 16.31 |      | 150.0 |         |
|           |                                                                                | Z | 4.68   | 67.00  | 16.65 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.74   | 66.98  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.61   | 66.79  | 16.31 |      | 150.0 |         |
|           |                                                                                | Z | 4.70   | 66.95  | 16.65 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.87   | 66.97  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.74   | 66.79  | 16.32 |      | 150.0 |         |
|           |                                                                                | Z | 4.83   | 66.94  | 16.66 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 5.08   | 67.37  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.92   | 67.13  | 16.45 |      | 150.0 |         |
|           |                                                                                | Z | 5.02   | 67.31  | 16.79 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.99   | 67.31  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.83   | 67.08  | 16.42 |      | 150.0 |         |
|           |                                                                                | Z | 4.94   | 67.26  | 16.76 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.54   | 67.56  | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.42   | 67.39  | 16.57 |      | 150.0 |         |
|           |                                                                                | Z | 5.53   | 67.59  | 16.92 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.55   | 67.61  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.42   | 67.39  | 16.57 |      | 150.0 |         |
|           |                                                                                | Z | 5.54   | 67.62  | 16.93 |      | 150.0 |         |

|           |                                                                |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.58 | 67.64 | 16.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.44 | 67.39 | 16.57 |      | 150.0 |         |
|           |                                                                | Z | 5.55 | 67.59 | 16.91 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.51 | 70.76 | 18.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.44 | 71.22 | 18.60 |      | 150.0 |         |
|           |                                                                | Z | 4.47 | 71.02 | 18.77 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.49 | 67.52 | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.31 | 67.26 | 16.34 |      | 150.0 |         |
|           |                                                                | Z | 4.43 | 67.52 | 16.75 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.77 | 67.38 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.60 | 67.13 | 16.38 |      | 150.0 |         |
|           |                                                                | Z | 4.71 | 67.34 | 16.75 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 5.00 | 67.36 | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.85 | 67.12 | 16.44 |      | 150.0 |         |
|           |                                                                | Z | 4.95 | 67.30 | 16.79 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.64 | 71.62 | 18.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.58 | 72.20 | 18.67 |      | 150.0 |         |
|           |                                                                | Z | 4.61 | 71.98 | 18.84 |      | 150.0 |         |
| 10435-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 1.04 | 60.00 | 5.13  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 0.89 | 60.00 | 4.64  |      | 80.0  |         |
|           |                                                                | Z | 0.91 | 60.00 | 4.75  |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.84 | 67.78 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.62 | 67.35 | 15.80 |      | 150.0 |         |
|           |                                                                | Z | 3.77 | 67.79 | 16.35 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.31 | 67.31 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.14 | 67.04 | 16.20 |      | 150.0 |         |
|           |                                                                | Z | 4.25 | 67.30 | 16.62 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.55 | 67.22 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.41 | 66.97 | 16.29 |      | 150.0 |         |
|           |                                                                | Z | 4.51 | 67.17 | 16.66 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.72 | 67.13 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.59 | 66.89 | 16.30 |      | 150.0 |         |
|           |                                                                | Z | 4.69 | 67.07 | 16.65 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.80 | 68.19 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.54 | 67.62 | 15.51 |      | 150.0 |         |
|           |                                                                | Z | 3.71 | 68.17 | 16.13 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.39 | 68.18 | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.27 | 67.95 | 16.72 |      | 150.0 |         |
|           |                                                                | Z | 6.39 | 68.13 | 17.04 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.89 | 65.51 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.83 | 65.32 | 16.01 |      | 150.0 |         |
|           |                                                                | Z | 3.88 | 65.45 | 16.37 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.59 | 67.34 | 15.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.36 | 66.90 | 14.95 |      | 150.0 |         |
|           |                                                                | Z | 3.52 | 67.43 | 15.60 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.67 | 65.24 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.49 | 65.25 | 15.83 |      | 150.0 |         |
|           |                                                                | Z | 4.67 | 65.66 | 16.36 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.30   | 75.35  | 20.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.95   | 69.09  | 16.82 |      | 150.0 |         |
|           |                                                                   | Z | 1.33   | 75.72  | 20.56 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 123.38 | 31.84 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 10.65  | 90.05  | 22.29 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 122.02 | 30.96 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.78 | 23.96 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.88   | 64.80  | 10.89 |      | 80.0  |         |
|           |                                                                   | Z | 3.69   | 72.00  | 14.07 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 11.42  | 82.27  | 17.21 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.49   | 62.10  | 9.23  |      | 80.0  |         |
|           |                                                                   | Z | 2.13   | 65.72  | 11.15 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 121.19 | 30.67 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 7.57   | 84.80  | 20.18 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.52 | 29.65 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 43.93  | 97.74  | 21.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.75   | 64.01  | 10.48 |      | 80.0  |         |
|           |                                                                   | Z | 3.03   | 69.90  | 13.23 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.34   | 77.70  | 15.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.43   | 61.67  | 8.98  |      | 80.0  |         |
|           |                                                                   | Z | 1.94   | 64.77  | 10.69 |      | 80.0  |         |
| 10467-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 121.41 | 30.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 8.25   | 85.96  | 20.56 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.76 | 29.76 |      | 80.0  |         |
| 10468-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 56.76  | 100.52 | 22.45 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.77   | 64.19  | 10.58 |      | 80.0  |         |
|           |                                                                   | Z | 3.16   | 70.38  | 13.42 |      | 80.0  |         |
| 10469-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.46   | 77.87  | 15.82 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.42   | 61.68  | 8.98  |      | 80.0  |         |
|           |                                                                   | Z | 1.94   | 64.80  | 10.70 |      | 80.0  |         |
| 10470-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 121.44 | 30.78 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 8.24   | 85.96  | 20.55 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.78 | 29.76 |      | 80.0  |         |
| 10471-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 55.97  | 100.32 | 22.39 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.77   | 64.15  | 10.55 |      | 80.0  |         |
|           |                                                                   | Z | 3.14   | 70.29  | 13.38 |      | 80.0  |         |
| 10472-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 7.38   | 77.75  | 15.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.42   | 61.65  | 8.95  |      | 80.0  |         |
|           |                                                                   | Z | 1.93   | 64.74  | 10.66 |      | 80.0  |         |
| 10473-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 121.41 | 30.76 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 8.21   | 85.90  | 20.53 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.74 | 29.74 |      | 80.0  |         |
| 10474-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 54.63  | 100.08 | 22.33 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.76   | 64.12  | 10.53 |      | 80.0  |         |
|           |                                                                   | Z | 3.12   | 70.24  | 13.36 |      | 80.0  |         |
| 10475-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 7.30   | 77.66  | 15.74 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.42   | 61.64  | 8.95  |      | 80.0  |         |
|           |                                                                   | Z | 1.92   | 64.72  | 10.66 |      | 80.0  |         |



|           |                                                                     |   |       |       |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10477-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 45.20 | 97.99 | 21.80 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.73  | 63.96 | 10.44 |      | 80.0 |         |
|           |                                                                     | Z | 3.01  | 69.84 | 13.18 |      | 80.0 |         |
| 10478-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 7.16  | 77.43 | 15.66 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.41  | 61.61 | 8.92  |      | 80.0 |         |
|           |                                                                     | Z | 1.91  | 64.65 | 10.62 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.91  | 75.99 | 14.82 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.08  | 60.00 | 7.15  |      | 80.0 |         |
|           |                                                                     | Z | 1.10  | 60.19 | 7.71  |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.45  | 60.06 | 7.55  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.37  | 60.00 | 6.47  |      | 80.0 |         |
|           |                                                                     | Z | 1.37  | 60.00 | 6.83  |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.47  | 60.00 | 7.29  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.40  | 60.00 | 6.25  |      | 80.0 |         |
|           |                                                                     | Z | 1.41  | 60.00 | 6.61  |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.80  | 84.12 | 21.31 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.14  | 71.12 | 15.65 |      | 80.0 |         |
|           |                                                                     | Z | 5.38  | 78.66 | 18.99 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.35  | 81.49 | 20.25 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.48  | 69.04 | 14.44 |      | 80.0 |         |
|           |                                                                     | Z | 4.91  | 73.86 | 16.90 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.63  | 80.04 | 19.79 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.40  | 68.52 | 14.26 |      | 80.0 |         |
|           |                                                                     | Z | 4.66  | 72.96 | 16.59 |      | 80.0 |         |
| 10485-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 7.85  | 84.84 | 22.34 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.88  | 74.14 | 17.77 |      | 80.0 |         |
|           |                                                                     | Z | 6.12  | 81.14 | 20.82 |      | 80.0 |         |
| 10486-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.81  | 74.44 | 18.50 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.38  | 69.22 | 15.56 |      | 80.0 |         |
|           |                                                                     | Z | 4.16  | 72.36 | 17.34 |      | 80.0 |         |
| 10487-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.71  | 73.76 | 18.25 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.38  | 68.86 | 15.42 |      | 80.0 |         |
|           |                                                                     | Z | 4.09  | 71.77 | 17.11 |      | 80.0 |         |
| 10488-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.62  | 80.89 | 21.55 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.24  | 73.93 | 18.46 |      | 80.0 |         |
|           |                                                                     | Z | 5.61  | 78.53 | 20.63 |      | 80.0 |         |
| 10489-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.65  | 72.87 | 18.87 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.80  | 69.75 | 17.04 |      | 80.0 |         |
|           |                                                                     | Z | 4.28  | 71.75 | 18.30 |      | 80.0 |         |
| 10490-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.67  | 72.34 | 18.69 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.89  | 69.54 | 17.00 |      | 80.0 |         |
|           |                                                                     | Z | 4.33  | 71.35 | 18.18 |      | 80.0 |         |
| 10491-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.71  | 76.53 | 20.11 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.30  | 72.07 | 17.97 |      | 80.0 |         |
|           |                                                                     | Z | 5.10  | 74.93 | 19.49 |      | 80.0 |         |
| 10492-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.75  | 71.22 | 18.45 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.12  | 69.01 | 17.10 |      | 80.0 |         |
|           |                                                                     | Z | 4.47  | 70.39 | 18.07 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.79 | 70.92 | 18.35 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.19 | 68.86 | 17.06 |      | 80.0 |         |
|           |                                                                      | Z | 4.52 | 70.15 | 17.99 |      | 80.0 |         |
| 10494-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.88 | 79.43 | 20.92 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.75 | 73.68 | 18.38 |      | 80.0 |         |
|           |                                                                      | Z | 5.90 | 77.23 | 20.12 |      | 80.0 |         |
| 10495-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.90 | 72.00 | 18.74 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.18 | 69.50 | 17.30 |      | 80.0 |         |
|           |                                                                      | Z | 4.57 | 71.02 | 18.32 |      | 80.0 |         |
| 10496-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.89 | 71.39 | 18.54 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.25 | 69.18 | 17.23 |      | 80.0 |         |
|           |                                                                      | Z | 4.60 | 70.53 | 18.17 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.37 | 78.58 | 18.65 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.02 | 65.69 | 12.44 |      | 80.0 |         |
|           |                                                                      | Z | 3.18 | 71.42 | 15.37 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.00 | 68.10 | 13.82 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.68 | 61.35 | 9.53  |      | 80.0 |         |
|           |                                                                      | Z | 2.07 | 63.64 | 11.15 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.89 | 67.31 | 13.36 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.65 | 60.97 | 9.22  |      | 80.0 |         |
|           |                                                                      | Z | 2.01 | 63.05 | 10.74 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.75 | 81.99 | 21.66 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.94 | 73.71 | 17.96 |      | 80.0 |         |
|           |                                                                      | Z | 5.60 | 79.29 | 20.52 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.70 | 73.61 | 18.57 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.58 | 69.51 | 16.18 |      | 80.0 |         |
|           |                                                                      | Z | 4.22 | 72.10 | 17.71 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.70 | 73.19 | 18.37 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.63 | 69.31 | 16.06 |      | 80.0 |         |
|           |                                                                      | Z | 4.24 | 71.75 | 17.53 |      | 80.0 |         |
| 10503-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.49 | 80.57 | 21.42 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.17 | 73.68 | 18.35 |      | 80.0 |         |
|           |                                                                      | Z | 5.51 | 78.24 | 20.51 |      | 80.0 |         |
| 10504-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.62 | 72.77 | 18.81 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.78 | 69.64 | 16.98 |      | 80.0 |         |
|           |                                                                      | Z | 4.26 | 71.65 | 18.24 |      | 80.0 |         |
| 10505-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.64 | 72.23 | 18.63 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.86 | 69.43 | 16.93 |      | 80.0 |         |
|           |                                                                      | Z | 4.30 | 71.24 | 18.12 |      | 80.0 |         |
| 10506-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.78 | 79.20 | 20.83 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.70 | 73.49 | 18.30 |      | 80.0 |         |
|           |                                                                      | Z | 5.83 | 77.02 | 20.03 |      | 80.0 |         |
| 10507-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.88 | 71.92 | 18.70 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.16 | 69.42 | 17.26 |      | 80.0 |         |
|           |                                                                      | Z | 4.55 | 70.95 | 18.28 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.87 | 71.31 | 18.50 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.23 | 69.10 | 17.18 |      | 80.0  |         |
|           |                                                                     | Z | 4.58 | 70.45 | 18.13 |      | 80.0  |         |
| 10509-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.19 | 75.65 | 19.57 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.87 | 71.89 | 17.77 |      | 80.0  |         |
|           |                                                                     | Z | 5.56 | 74.07 | 18.99 |      | 80.0  |         |
| 10510-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.25 | 71.06 | 18.41 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.63 | 69.08 | 17.26 |      | 80.0  |         |
|           |                                                                     | Z | 4.95 | 70.21 | 18.08 |      | 80.0  |         |
| 10511-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.23 | 70.58 | 18.28 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.67 | 68.80 | 17.20 |      | 80.0  |         |
|           |                                                                     | Z | 4.96 | 69.81 | 17.97 |      | 80.0  |         |
| 10512-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 7.27 | 78.78 | 20.51 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.20 | 73.55 | 18.21 |      | 80.0  |         |
|           |                                                                     | Z | 6.25 | 76.56 | 19.72 |      | 80.0  |         |
| 10513-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.24 | 71.76 | 18.67 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.54 | 69.45 | 17.37 |      | 80.0  |         |
|           |                                                                     | Z | 4.90 | 70.77 | 18.28 |      | 80.0  |         |
| 10514-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.13 | 71.00 | 18.44 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.54 | 68.98 | 17.26 |      | 80.0  |         |
|           |                                                                     | Z | 4.85 | 70.13 | 18.09 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.03 | 64.67 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.98 | 63.40 | 15.00 |      | 150.0 |         |
|           |                                                                     | Z | 1.03 | 64.64 | 16.31 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.77 | 92.26 | 27.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.65 | 71.92 | 18.33 |      | 150.0 |         |
|           |                                                                     | Z | 2.08 | 95.25 | 28.41 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.96 | 68.54 | 17.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.84 | 65.56 | 15.78 |      | 150.0 |         |
|           |                                                                     | Z | 0.96 | 68.59 | 18.08 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.73 | 66.96 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.60 | 66.76 | 16.28 |      | 150.0 |         |
|           |                                                                     | Z | 4.69 | 66.93 | 16.62 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.95 | 67.25 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.80 | 67.02 | 16.40 |      | 150.0 |         |
|           |                                                                     | Z | 4.90 | 67.20 | 16.75 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.81 | 67.26 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.65 | 66.99 | 16.33 |      | 150.0 |         |
|           |                                                                     | Z | 4.75 | 67.20 | 16.69 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.74 | 67.28 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.58 | 67.00 | 16.32 |      | 150.0 |         |
|           |                                                                     | Z | 4.69 | 67.21 | 16.68 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.78 | 67.22 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64 | 67.04 | 16.38 |      | 150.0 |         |
|           |                                                                     | Z | 4.74 | 67.22 | 16.73 |      | 150.0 |         |



|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.65 | 67.15 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.51 | 66.92 | 16.24 |      | 150.0 |         |
|           |                                                            | Z | 4.61 | 67.11 | 16.59 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.73 | 67.19 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.97 | 16.36 |      | 150.0 |         |
|           |                                                            | Z | 4.69 | 67.17 | 16.71 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.69 | 66.23 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.02 | 15.95 |      | 150.0 |         |
|           |                                                            | Z | 4.65 | 66.19 | 16.29 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.90 | 66.64 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.40 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.85 | 66.60 | 16.44 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.81 | 66.64 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.66 | 66.37 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 4.77 | 66.57 | 16.40 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.83 | 66.66 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 66.39 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 4.79 | 66.59 | 16.43 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.83 | 66.66 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 66.39 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 4.79 | 66.59 | 16.43 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.85 | 66.82 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 66.51 | 16.10 |      | 150.0 |         |
|           |                                                            | Z | 4.79 | 66.75 | 16.46 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.70 | 66.71 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.53 | 66.37 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 4.65 | 66.61 | 16.41 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.85 | 66.67 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.69 | 66.43 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 4.80 | 66.62 | 16.41 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.33 | 66.76 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.20 | 66.50 | 16.12 |      | 150.0 |         |
|           |                                                            | Z | 5.30 | 66.68 | 16.44 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.41 | 66.90 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.66 | 16.18 |      | 150.0 |         |
|           |                                                            | Z | 5.37 | 66.83 | 16.51 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.28 | 66.91 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.14 | 66.63 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 5.25 | 66.82 | 16.49 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.34 | 66.87 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.19 | 66.60 | 16.14 |      | 150.0 |         |
|           |                                                            | Z | 5.31 | 66.79 | 16.48 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.45 | 66.93 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.29 | 66.63 | 16.20 |      | 150.0 |         |
|           |                                                            | Z | 5.41 | 66.84 | 16.54 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.35 | 66.88 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.21 | 66.62 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 5.32 | 66.81 | 16.54 |      | 150.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.34 | 66.81 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.19 | 66.51 | 16.14 |      | 150.0 |         |
|           |                                                     | Z | 5.29 | 66.68 | 16.47 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.48 | 66.81 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.34 | 66.56 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.45 | 66.74 | 16.51 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.57 | 66.83 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.42 | 66.59 | 16.22 |      | 150.0 |         |
|           |                                                     | Z | 5.53 | 66.75 | 16.53 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.61 | 66.85 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.50 | 66.61 | 16.11 |      | 150.0 |         |
|           |                                                     | Z | 5.59 | 66.75 | 16.41 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 5.82 | 67.24 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.69 | 67.01 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.82 | 67.22 | 16.58 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.71 | 67.16 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.57 | 66.85 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.69 | 67.04 | 16.51 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 5.80 | 67.22 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.65 | 66.90 | 16.20 |      | 150.0 |         |
|           |                                                     | Z | 5.78 | 67.12 | 16.54 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 6.08 | 68.21 | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.90 | 67.82 | 16.63 |      | 150.0 |         |
|           |                                                     | Z | 6.16 | 68.44 | 17.17 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.73 | 67.09 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.59 | 66.83 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.70 | 67.00 | 16.50 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.75 | 67.20 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.61 | 66.89 | 16.18 |      | 150.0 |         |
|           |                                                     | Z | 5.72 | 67.07 | 16.49 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.65 | 66.96 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.52 | 66.69 | 16.09 |      | 150.0 |         |
|           |                                                     | Z | 5.61 | 66.82 | 16.39 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.74 | 67.00 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.61 | 66.73 | 16.14 |      | 150.0 |         |
|           |                                                     | Z | 5.71 | 66.87 | 16.44 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 6.00 | 67.22 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.90 | 66.97 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 6.00 | 67.12 | 16.49 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.16 | 67.57 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.03 | 67.27 | 16.31 |      | 150.0 |         |
|           |                                                     | Z | 6.15 | 67.47 | 16.64 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.17 | 67.57 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.05 | 67.31 | 16.33 |      | 150.0 |         |
|           |                                                     | Z | 6.17 | 67.50 | 16.65 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.16 | 67.55 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.02 | 67.24 | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 6.14 | 67.43 | 16.63 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.22   | 67.74  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.07   | 67.41  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 6.21   | 67.63  | 16.75 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.21   | 67.57  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.07   | 67.26  | 16.38 |      | 150.0 |         |
|           |                                                                 | Z | 6.19   | 67.43  | 16.68 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 6.12   | 67.52  | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.99   | 67.22  | 16.39 |      | 150.0 |         |
|           |                                                                 | Z | 6.11   | 67.41  | 16.71 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.28   | 68.00  | 16.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.12   | 67.63  | 16.60 |      | 150.0 |         |
|           |                                                                 | Z | 6.28   | 67.94  | 16.98 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.56   | 68.37  | 17.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.44   | 68.15  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 6.67   | 68.64  | 17.27 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 5.05   | 67.03  | 16.68 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92   | 66.82  | 16.40 |      | 150.0 |         |
|           |                                                                 | Z | 5.02   | 66.98  | 16.75 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.33   | 67.53  | 17.00 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.17   | 67.30  | 16.74 |      | 150.0 |         |
|           |                                                                 | Z | 5.27   | 67.46  | 17.07 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.16   | 67.41  | 16.85 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.00   | 67.14  | 16.55 |      | 150.0 |         |
|           |                                                                 | Z | 5.10   | 67.33  | 16.90 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.18   | 67.81  | 17.18 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.03   | 67.58  | 16.93 |      | 150.0 |         |
|           |                                                                 | Z | 5.13   | 67.72  | 17.25 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 5.06   | 67.11  | 16.58 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.90   | 66.86  | 16.29 |      | 150.0 |         |
|           |                                                                 | Z | 5.01   | 67.08  | 16.66 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.12   | 67.81  | 17.20 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.98   | 67.64  | 16.98 |      | 150.0 |         |
|           |                                                                 | Z | 5.07   | 67.75  | 17.28 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.17   | 67.64  | 17.13 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.02   | 67.47  | 16.90 |      | 150.0 |         |
|           |                                                                 | Z | 5.12   | 67.60  | 17.22 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.34   | 66.86  | 17.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.24   | 65.03  | 15.83 |      | 130.0 |         |
|           |                                                                 | Z | 1.32   | 66.52  | 17.21 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.38   | 67.68  | 17.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.26   | 65.66  | 16.21 |      | 130.0 |         |
|           |                                                                 | Z | 1.35   | 67.31  | 17.66 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 152.10 | 41.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.82   | 88.89  | 24.00 |      | 130.0 |         |
|           |                                                                 | Z | 100.00 | 151.69 | 41.06 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.90   | 77.77  | 22.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.47   | 72.23  | 19.41 |      | 130.0 |         |
|           |                                                                 | Z | 1.82   | 77.04  | 22.21 |      | 130.0 |         |



|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.84 | 66.81 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.58 | 16.41 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 66.75 | 16.78 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.87 | 66.98 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.75 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 66.92 | 16.84 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.11 | 67.32 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95 | 67.07 | 16.67 |      | 130.0 |         |
|           |                                                                 | Z | 5.05 | 67.24 | 17.02 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 5.01 | 67.50 | 17.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85 | 67.25 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.95 | 67.42 | 17.12 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.78 | 66.88 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.61 | 66.49 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 66.77 | 16.48 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.82 | 66.83 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 66.50 | 16.07 |      | 130.0 |         |
|           |                                                                 | Z | 4.77 | 66.77 | 16.48 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.91 | 67.59 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.28 | 16.71 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 67.47 | 17.07 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.74 | 66.63 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.55 | 66.23 | 15.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.54 | 16.28 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.84 | 66.81 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.58 | 16.41 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 66.75 | 16.78 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.87 | 66.98 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.75 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 66.92 | 16.84 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.11 | 67.32 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95 | 67.07 | 16.67 |      | 130.0 |         |
|           |                                                                 | Z | 5.05 | 67.24 | 17.02 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 5.01 | 67.50 | 17.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.85 | 67.25 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.95 | 67.42 | 17.12 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.78 | 66.88 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.61 | 66.49 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 66.77 | 16.48 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.82 | 66.83 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 66.50 | 16.07 |      | 130.0 |         |
|           |                                                                 | Z | 4.77 | 66.77 | 16.48 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.91 | 67.59 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.28 | 16.71 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 67.47 | 17.07 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.74 | 66.63 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.55 | 66.23 | 15.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.54 | 16.28 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.99 | 66.86 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.86 | 66.65 | 16.52 |      | 130.0 |         |
|           |                                                       | Z | 4.95 | 66.80 | 16.86 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.17 | 67.21 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.02 | 66.99 | 16.65 |      | 130.0 |         |
|           |                                                       | Z | 5.12 | 67.15 | 16.99 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.10 | 67.18 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.94 | 66.91 | 16.53 |      | 130.0 |         |
|           |                                                       | Z | 5.05 | 67.09 | 16.89 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.15 | 67.32 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.00 | 67.08 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.10 | 67.24 | 17.03 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.13 | 67.30 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.97 | 67.02 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 5.07 | 67.21 | 16.94 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 5.07 | 67.29 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.90 | 67.02 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 5.01 | 67.22 | 16.94 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 5.02 | 67.25 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.85 | 66.93 | 16.47 |      | 130.0 |         |
|           |                                                       | Z | 4.96 | 67.15 | 16.85 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 5.00 | 67.51 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.84 | 67.20 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 67.39 | 17.11 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.65 | 67.44 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.52 | 67.19 | 16.70 |      | 130.0 |         |
|           |                                                       | Z | 5.63 | 67.39 | 17.06 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.86 | 68.06 | 17.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.67 | 67.63 | 16.89 |      | 130.0 |         |
|           |                                                       | Z | 5.84 | 68.05 | 17.36 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.71 | 67.69 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.55 | 67.37 | 16.78 |      | 130.0 |         |
|           |                                                       | Z | 5.69 | 67.66 | 17.18 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.81 | 67.70 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.63 | 67.34 | 16.68 |      | 130.0 |         |
|           |                                                       | Z | 5.77 | 67.64 | 17.08 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.92 | 68.10 | 17.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.73 | 67.71 | 17.00 |      | 130.0 |         |
|           |                                                       | Z | 5.85 | 67.91 | 17.35 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.66 | 67.43 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.52 | 67.15 | 16.71 |      | 130.0 |         |
|           |                                                       | Z | 5.63 | 67.35 | 17.06 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.77 | 67.70 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.63 | 67.44 | 16.85 |      | 130.0 |         |
|           |                                                       | Z | 5.76 | 67.71 | 17.24 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.55 | 67.21 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.40 | 66.90 | 16.44 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.10 | 16.81 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.83 | 66.19 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.69 | 65.96 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 4.79 | 66.12 | 16.49 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 5.05 | 66.63 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.89 | 66.37 | 16.30 |      | 130.0 |         |
|           |                                                   | Z | 5.00 | 66.56 | 16.65 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.94 | 66.52 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 66.22 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 4.89 | 66.43 | 16.51 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.99 | 66.67 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.83 | 66.39 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 4.94 | 66.58 | 16.67 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.92 | 66.51 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.75 | 66.19 | 16.15 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.41 | 16.53 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.94 | 66.67 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.76 | 66.34 | 16.19 |      | 130.0 |         |
|           |                                                   | Z | 4.87 | 66.58 | 16.58 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.95 | 66.59 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.76 | 66.23 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.88 | 66.49 | 16.48 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.88 | 66.79 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.71 | 66.45 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 4.82 | 66.66 | 16.70 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.92 | 66.32 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.74 | 65.99 | 15.91 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.23 | 16.31 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.48 | 66.74 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.34 | 66.47 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 5.45 | 66.65 | 16.67 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.54 | 66.86 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.40 | 66.59 | 16.36 |      | 130.0 |         |
|           |                                                   | Z | 5.51 | 66.77 | 16.69 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.44 | 66.94 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.29 | 66.64 | 16.41 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 66.85 | 16.75 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.46 | 66.75 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.31 | 66.46 | 16.25 |      | 130.0 |         |
|           |                                                   | Z | 5.43 | 66.67 | 16.60 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.58 | 66.86 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.41 | 66.52 | 16.32 |      | 130.0 |         |
|           |                                                   | Z | 5.54 | 66.76 | 16.69 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.55 | 66.92 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.40 | 66.64 | 16.51 |      | 130.0 |         |
|           |                                                   | Z | 5.51 | 66.79 | 16.82 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.55 | 67.03 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.41 | 66.77 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 5.52 | 66.96 | 16.90 |      | 130.0 |         |



|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.45 | 66.66 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.29 | 66.30 | 16.20 |      | 130.0 |         |
|           |                                                     | Z | 5.40 | 66.50 | 16.55 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.62 | 66.77 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.48 | 66.50 | 16.37 |      | 130.0 |         |
|           |                                                     | Z | 5.60 | 66.70 | 16.72 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 6.00 | 67.71 | 17.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.87 | 67.52 | 16.92 |      | 130.0 |         |
|           |                                                     | Z | 6.06 | 67.96 | 17.39 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.73 | 66.77 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.62 | 66.52 | 16.28 |      | 130.0 |         |
|           |                                                     | Z | 5.71 | 66.66 | 16.59 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 5.98 | 67.28 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.86 | 67.05 | 16.50 |      | 130.0 |         |
|           |                                                     | Z | 5.99 | 67.31 | 16.87 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 5.81 | 66.97 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.66 | 66.63 | 16.23 |      | 130.0 |         |
|           |                                                     | Z | 5.78 | 66.85 | 16.58 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 5.90 | 67.04 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.75 | 66.72 | 16.26 |      | 130.0 |         |
|           |                                                     | Z | 5.86 | 66.90 | 16.59 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 6.42 | 68.75 | 17.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.20 | 68.23 | 17.01 |      | 130.0 |         |
|           |                                                     | Z | 6.53 | 69.06 | 17.67 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 6.31 | 68.53 | 17.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.11 | 68.09 | 17.14 |      | 130.0 |         |
|           |                                                     | Z | 6.30 | 68.49 | 17.57 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 5.97 | 67.40 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.83 | 67.14 | 16.69 |      | 130.0 |         |
|           |                                                     | Z | 5.95 | 67.32 | 17.01 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 5.92 | 67.25 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.73 | 66.81 | 16.35 |      | 130.0 |         |
|           |                                                     | Z | 5.86 | 67.04 | 16.70 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 5.89 | 67.23 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.72 | 66.85 | 16.43 |      | 130.0 |         |
|           |                                                     | Z | 5.83 | 67.01 | 16.75 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.77 | 66.56 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.60 | 66.15 | 15.80 |      | 130.0 |         |
|           |                                                     | Z | 5.72 | 66.39 | 16.18 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.14 | 67.16 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.03 | 66.89 | 16.37 |      | 130.0 |         |
|           |                                                     | Z | 6.13 | 67.06 | 16.69 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.32 | 67.57 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.18 | 67.26 | 16.53 |      | 130.0 |         |
|           |                                                     | Z | 6.31 | 67.48 | 16.87 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.31 | 67.51 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.18 | 67.23 | 16.49 |      | 130.0 |         |
|           |                                                     | Z | 6.31 | 67.46 | 16.84 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | X | 6.32 | 67.56 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.17 | 67.22 | 16.54 |      | 130.0 |         |
|           |                                                     | Z | 6.30 | 67.43 | 16.87 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle) | X | 6.35 | 67.64 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.18 | 67.24 | 16.48 |      | 130.0 |         |
|           |                                                     | Z | 6.33 | 67.52 | 16.86 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | X | 6.33 | 67.36 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.20 | 67.07 | 16.42 |      | 130.0 |         |
|           |                                                     | Z | 6.32 | 67.26 | 16.75 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle) | X | 6.41 | 67.71 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.27 | 67.40 | 16.76 |      | 130.0 |         |
|           |                                                     | Z | 6.38 | 67.56 | 17.06 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | X | 6.23 | 67.38 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.09 | 67.04 | 16.47 |      | 130.0 |         |
|           |                                                     | Z | 6.22 | 67.27 | 16.82 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | X | 6.47 | 68.08 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.28 | 67.62 | 16.78 |      | 130.0 |         |
|           |                                                     | Z | 6.46 | 67.99 | 17.21 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | X | 6.76 | 68.48 | 17.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.71 | 68.44 | 17.14 |      | 130.0 |         |
|           |                                                     | Z | 6.93 | 68.91 | 17.61 |      | 130.0 |         |

<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.

Checked By  
P. Schütz  
09.05.16

**Calibration Laboratory of**  
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**Engineering AG**  
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**S** Schweizerischer Kalibrierdienst  
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **UL RFI UK**

Certificate No: **EX3-3995\_Apr16**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3995**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6**  
**Calibration procedure for dosimetric E-field probes**

Calibration date: **April 26, 2016**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 06-Apr-16 (No. 217-02288/02289)   | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103244       | 06-Apr-16 (No. 217-02288)         | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103245       | 06-Apr-16 (No. 217-02289)         | Apr-17                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 05-Apr-16 (No. 217-02293)         | Apr-17                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-15 (No. ES3-3013_Dec15)    | Dec-16                 |
| DAE4                       | SN: 660          | 23-Dec-15 (No. DAE4-660_Dec15)    | Dec-16                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (No. 217-02285/02284)   | In house check: Jun-16 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (No. 217-02285)         | In house check: Jun-16 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (No. 217-02284)         | In house check: Jun-16 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Apr-13) | In house check: Jun-16 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 |

|                                                                                                                 |                         |                                   |               |
|-----------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------|---------------|
| Calibrated by:                                                                                                  | Name<br>Claudio Leubler | Function<br>Laboratory Technician | Signature<br> |
| Approved by:                                                                                                    | Katja Pokovic           | Technical Manager                 |               |
| Issued: April 27, 2016                                                                                          |                         |                                   |               |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                         |                                   |               |





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Accreditation No.: **SCS 0108**

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Multilateral Agreement for the recognition of calibration certificates

### Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                    |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe EX3DV4

## SN:3995

Manufactured: January 21, 2014  
Calibrated: April 26, 2016

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3995

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.50     | 0.37     | 0.55     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 104.0    | 101.8    | 104.2    |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 202.5    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 196.1    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 200.7    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms}\cdot\text{V}^{-2}$ | T2<br>$\text{ms}\cdot\text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|-------------------------------------|-------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 57.42    | 427      | 35.51                       | 23.38                               | 1.617                               | 5.02     | 1.367                 | 0.341                 | 1.008 |
| Y | 38.81    | 282.2    | 34.12                       | 11.46                               | 1.351                               | 4.949    | 1.576                 | 0.154                 | 1.003 |
| Z | 50.48    | 371.5    | 34.91                       | 18.52                               | 1.391                               | 4.986    | 1.126                 | 0.279                 | 1.005 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<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.



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3995

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative Permittivity <sup>f</sup> | Conductivity (S/m) <sup>f</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>g</sup> | Depth <sup>g</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.22   | 10.22   | 10.22   | 0.35               | 0.99                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 9.86    | 9.86    | 9.86    | 0.43               | 0.85                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.72    | 9.72    | 9.72    | 0.45               | 0.85                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 8.59    | 8.59    | 8.59    | 0.37               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.29    | 8.29    | 8.29    | 0.35               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.04    | 8.04    | 8.04    | 0.38               | 0.80                    | ± 12.0 %  |
| 2100                 | 39.8                               | 1.49                            | 8.31    | 8.31    | 8.31    | 0.34               | 0.80                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.75    | 7.75    | 7.75    | 0.40               | 0.80                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.43    | 7.43    | 7.43    | 0.32               | 0.89                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.16    | 7.16    | 7.16    | 0.37               | 0.80                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 6.93    | 6.93    | 6.93    | 0.31               | 1.22                    | ± 13.1 %  |
| 5250                 | 35.9                               | 4.71                            | 5.13    | 5.13    | 5.13    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.54    | 4.54    | 4.54    | 0.50               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 4.87    | 4.87    | 4.87    | 0.50               | 1.80                    | ± 13.1 %  |

<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>f</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>g</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3995

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 10.11   | 10.11   | 10.11   | 0.54               | 0.80                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 9.86    | 9.86    | 9.86    | 0.52               | 0.80                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 9.49    | 9.49    | 9.49    | 0.52               | 0.80                    | ± 12.0 %  |
| 1450                 | 54.0                               | 1.30                            | 8.60    | 8.60    | 8.60    | 0.37               | 0.80                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.20    | 8.20    | 8.20    | 0.43               | 0.80                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 7.84    | 7.84    | 7.84    | 0.29               | 0.98                    | ± 12.0 %  |
| 2100                 | 53.2                               | 1.62                            | 8.14    | 8.14    | 8.14    | 0.32               | 0.97                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 7.61    | 7.61    | 7.61    | 0.40               | 0.80                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.54    | 7.54    | 7.54    | 0.35               | 0.80                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.25    | 7.25    | 7.25    | 0.31               | 0.80                    | ± 12.0 %  |
| 3500                 | 51.3                               | 3.31                            | 6.44    | 6.44    | 6.44    | 0.37               | 1.19                    | ± 13.1 %  |
| 5250                 | 48.9                               | 5.36                            | 4.55    | 4.55    | 4.55    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 3.88    | 3.88    | 3.88    | 0.60               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.16    | 4.16    | 4.16    | 0.60               | 1.90                    | ± 13.1 %  |

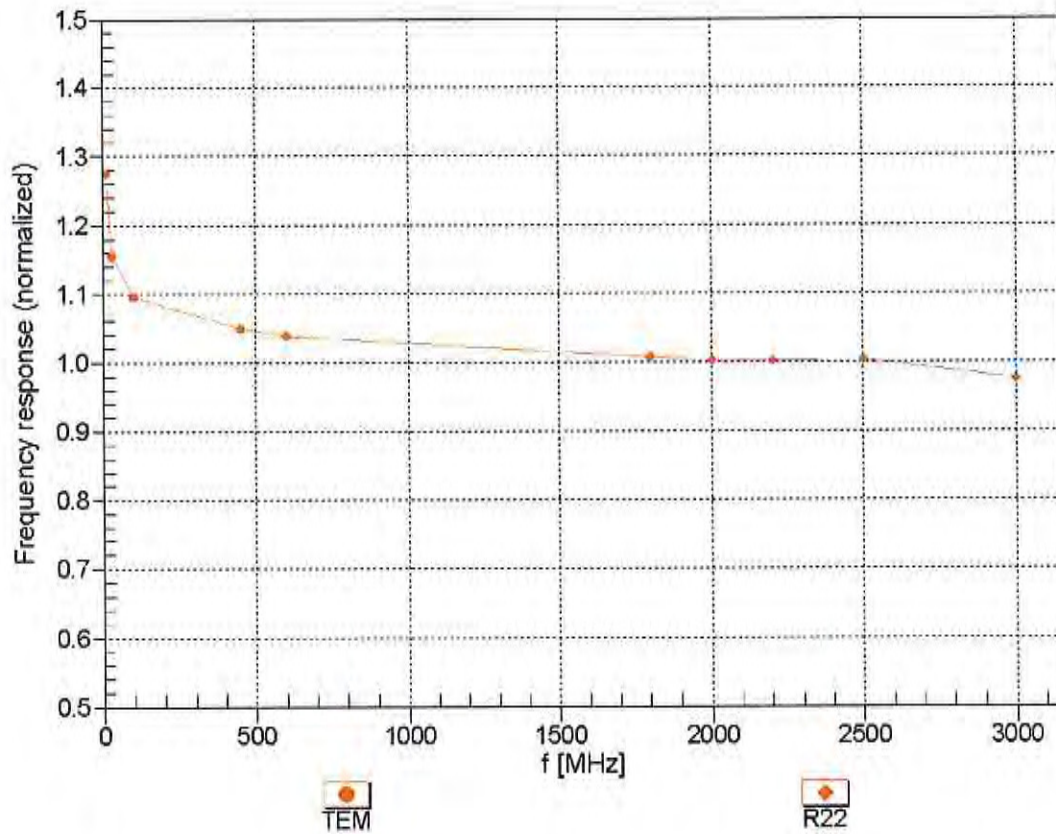
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

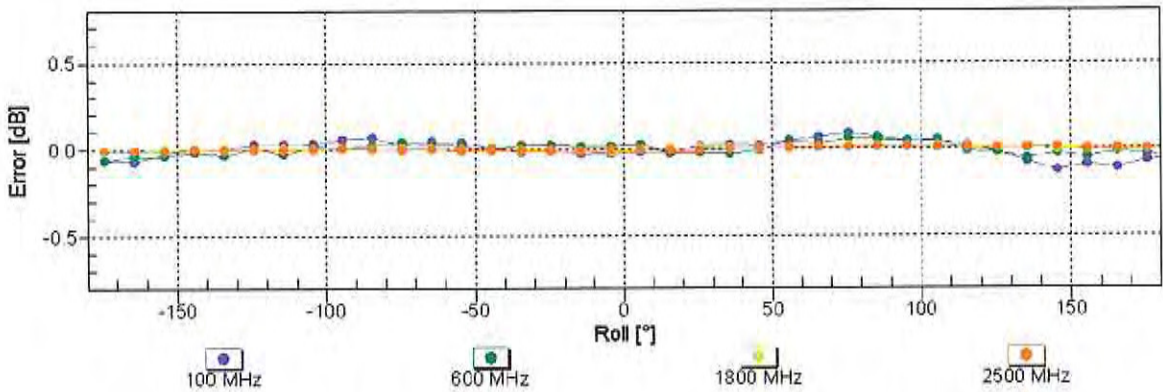
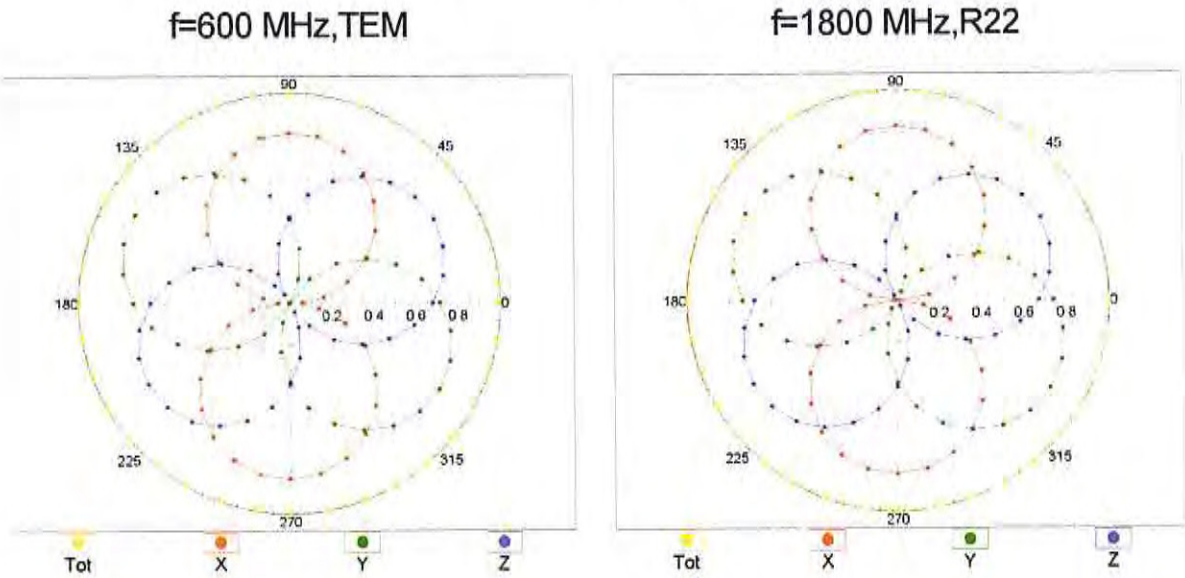
(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

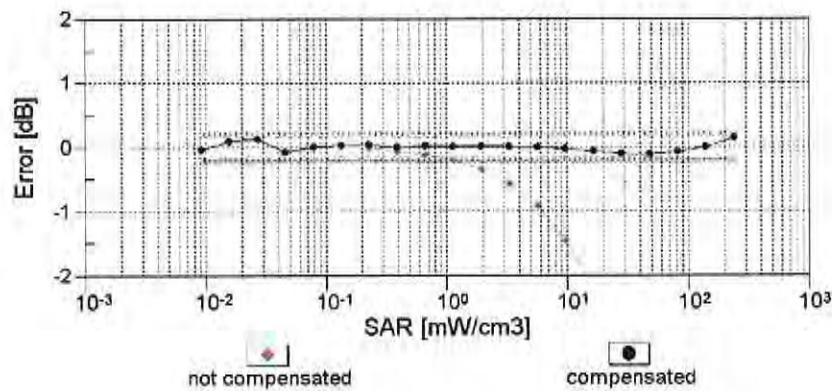
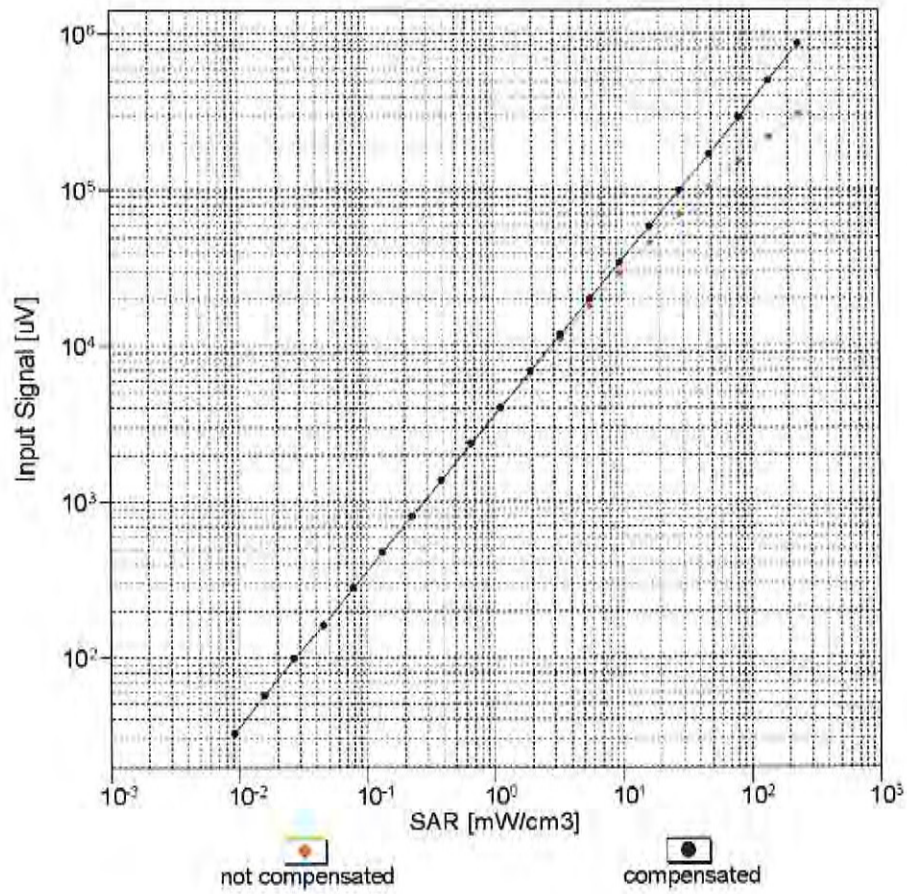


Receiving Pattern ( $\phi$ ),  $\vartheta = 0^\circ$



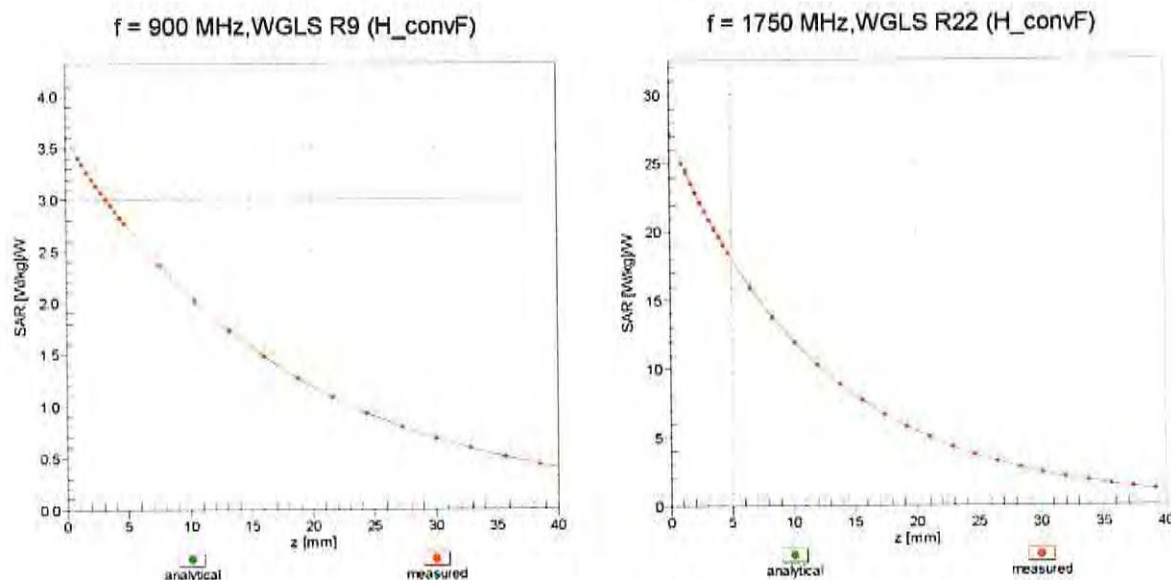
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# **Dynamic Range $f(\text{SAR}_{\text{head}})$** (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$ )



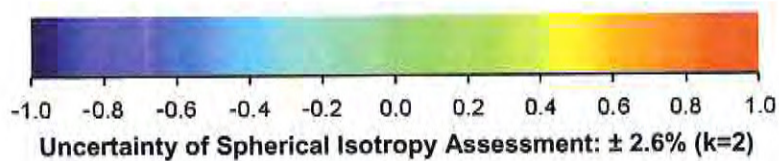
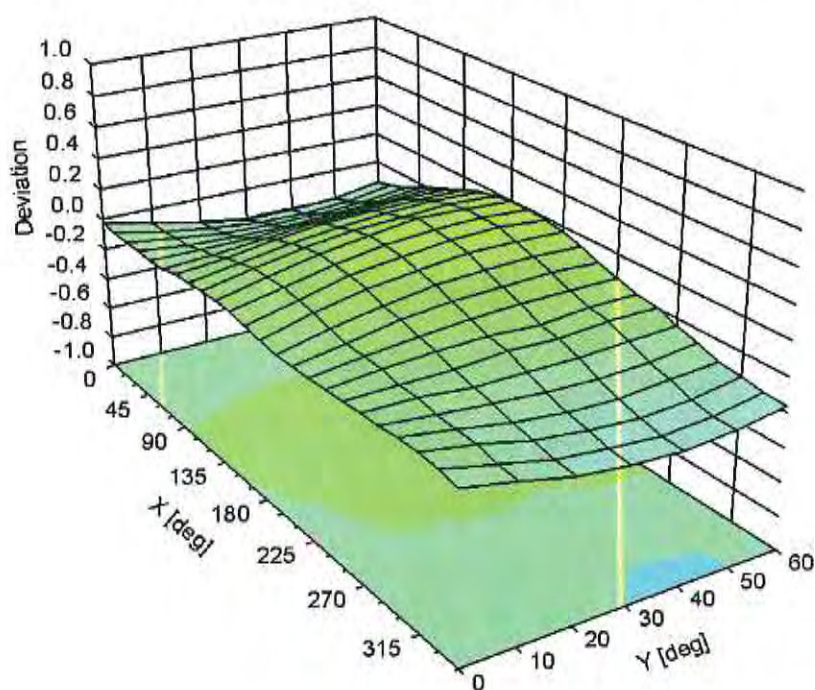
**Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )**

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\theta$ ),  $f = 900 \text{ MHz}$





**DASY/EASY - Parameters of Probe: EX3DV4 - SN:3995****Other Probe Parameters**

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 135.6      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB/μV | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00       | 1.00  | 0.00    | 202.5    | ± 3.5 %                          |
|               |                                               | Y | 0.00    | 0.00       | 1.00  |         | 196.1    |                                  |
|               |                                               | Z | 0.00    | 0.00       | 1.00  |         | 200.7    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 5.06    | 73.34      | 15.13 | 10.00   | 20.0     | ± 9.6 %                          |
|               |                                               | Y | 3.05    | 66.72      | 11.33 |         | 20.0     |                                  |
|               |                                               | Z | 3.50    | 68.68      | 12.50 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.28    | 71.12      | 17.63 | 0.00    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.17    | 70.64      | 17.15 |         | 150.0    |                                  |
|               |                                               | Z | 1.33    | 72.48      | 18.26 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.29    | 65.39      | 16.37 | 0.41    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.20    | 64.75      | 15.77 |         | 150.0    |                                  |
|               |                                               | Z | 1.25    | 65.45      | 16.40 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.02    | 66.83      | 17.23 | 1.46    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 4.73    | 66.77      | 16.88 |         | 150.0    |                                  |
|               |                                               | Z | 4.91    | 66.82      | 17.13 |         | 150.0    |                                  |
| 10021-<br>DAB | GSM-FDD (TDMA, GMSK)                          | X | 40.48   | 103.74     | 26.57 | 9.39    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 7.47    | 78.26      | 17.29 |         | 50.0     |                                  |
|               |                                               | Z | 16.04   | 89.12      | 21.40 |         | 50.0     |                                  |
| 10023-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 29.74   | 99.28      | 25.40 | 9.57    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 6.68    | 76.55      | 16.68 |         | 50.0     |                                  |
|               |                                               | Z | 13.12   | 86.31      | 20.56 |         | 50.0     |                                  |
| 10024-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 113.39     | 27.21 | 6.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 8.81    | 81.74      | 17.17 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 110.08     | 25.26 |         | 60.0     |                                  |
| 10025-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 16.00   | 105.63     | 40.67 | 12.57   | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 4.38    | 67.81      | 22.87 |         | 50.0     |                                  |
|               |                                               | Z | 12.57   | 98.72      | 37.70 |         | 50.0     |                                  |
| 10026-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 18.50   | 104.35     | 36.07 | 9.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 8.24    | 85.95      | 28.86 |         | 60.0     |                                  |
|               |                                               | Z | 14.88   | 99.95      | 34.44 |         | 60.0     |                                  |
| 10027-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.53     | 26.03 | 4.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 51.43   | 100.53     | 21.32 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 109.13     | 24.07 |         | 80.0     |                                  |
| 10028-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 113.11     | 25.60 | 3.55    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 107.55     | 22.30 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 109.59     | 23.61 |         | 100.0    |                                  |
| 10029-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 10.99   | 92.37      | 30.83 | 7.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 5.60    | 78.59      | 25.06 |         | 80.0     |                                  |
|               |                                               | Z | 8.82    | 88.33      | 29.24 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 111.81     | 26.00 | 5.30    | 70.0     | ± 9.6 %                          |
|               |                                               | Y | 6.32    | 78.50      | 15.43 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 108.31     | 23.99 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 114.90     | 25.01 | 1.88    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 106.75     | 20.72 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 110.27     | 22.63 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 122.94 | 27.36 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 114.52 | 23.01 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 118.47 | 25.06 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 16.88  | 96.81  | 26.16 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 4.38   | 75.56  | 17.30 |       | 70.0  |         |
|           |                                                     | Z | 10.32  | 88.70  | 22.92 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 6.52   | 86.61  | 21.99 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.40   | 72.55  | 15.14 |       | 100.0 |         |
|           |                                                     | Z | 5.11   | 83.00  | 20.16 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 4.02   | 81.47  | 20.20 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.00   | 71.99  | 14.88 |       | 100.0 |         |
|           |                                                     | Z | 3.60   | 80.03  | 19.13 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 22.49  | 101.53 | 27.59 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 4.87   | 77.20  | 17.98 |       | 70.0  |         |
|           |                                                     | Z | 13.01  | 92.35  | 24.12 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 6.16   | 85.87  | 21.71 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.22   | 71.70  | 14.78 |       | 100.0 |         |
|           |                                                     | Z | 4.72   | 82.01  | 19.79 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 4.15   | 82.24  | 20.57 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.03   | 72.39  | 15.16 |       | 100.0 |         |
|           |                                                     | Z | 3.72   | 80.79  | 19.51 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 2.96   | 78.93  | 19.44 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 4.12   | 83.85  | 19.49 |       | 150.0 |         |
|           |                                                     | Z | 4.10   | 84.22  | 20.90 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 112.36 | 26.96 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 5.94   | 76.11  | 15.34 |       | 50.0  |         |
|           |                                                     | Z | 19.50  | 90.23  | 20.30 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 104.13 | 0.78  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 103.17 | 0.38  |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 108.63 | 0.22  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 10.92  | 83.63  | 22.33 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 6.09   | 71.54  | 16.22 |       | 25.0  |         |
|           |                                                     | Z | 7.72   | 76.92  | 18.91 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 14.39  | 88.51  | 22.58 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 6.12   | 74.17  | 16.04 |       | 40.0  |         |
|           |                                                     | Z | 8.82   | 80.28  | 18.86 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 13.61  | 89.42  | 24.42 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 6.93   | 77.25  | 18.47 |       | 50.0  |         |
|           |                                                     | Z | 10.68  | 84.90  | 22.13 |       | 50.0  |         |
| 10058-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 7.78   | 85.43  | 27.56 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.42   | 74.77  | 22.88 |       | 100.0 |         |
|           |                                                     | Z | 6.38   | 82.04  | 26.16 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.41   | 67.25  | 17.24 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.24   | 65.73  | 16.17 |       | 110.0 |         |
|           |                                                     | Z | 1.35   | 67.07  | 17.14 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 133.52 | 34.32 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 8.10   | 98.20  | 25.37 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 133.86 | 34.17 |       | 110.0 |         |



|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 7.87 | 93.88 | 26.33 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 2.55 | 76.75 | 19.90 |      | 110.0 |         |
|           |                                                | Z | 5.62 | 89.12 | 24.65 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.82 | 66.83 | 16.70 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.55 | 66.89 | 16.49 |      | 100.0 |         |
|           |                                                | Z | 4.72 | 66.89 | 16.67 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.84 | 66.94 | 16.80 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.56 | 66.94 | 16.54 |      | 100.0 |         |
|           |                                                | Z | 4.74 | 66.97 | 16.75 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.16 | 67.23 | 17.03 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.81 | 67.12 | 16.70 |      | 100.0 |         |
|           |                                                | Z | 5.03 | 67.21 | 16.94 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.03 | 67.17 | 17.13 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.68 | 66.95 | 16.74 |      | 100.0 |         |
|           |                                                | Z | 4.90 | 67.12 | 17.02 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.06 | 67.22 | 17.30 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.69 | 66.92 | 16.84 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 67.14 | 17.17 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.35 | 67.29 | 17.69 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 67.10 | 17.23 |      | 100.0 |         |
|           |                                                | Z | 5.20 | 67.23 | 17.54 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.44 | 67.53 | 17.99 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.01 | 67.02 | 17.35 |      | 100.0 |         |
|           |                                                | Z | 5.27 | 67.35 | 17.77 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.52 | 67.46 | 18.15 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.08 | 67.03 | 17.52 |      | 100.0 |         |
|           |                                                | Z | 5.35 | 67.32 | 17.95 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.13 | 66.96 | 17.54 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.82 | 66.79 | 17.10 |      | 100.0 |         |
|           |                                                | Z | 5.01 | 66.90 | 17.40 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.15 | 67.40 | 17.79 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.79 | 67.04 | 17.26 |      | 100.0 |         |
|           |                                                | Z | 5.01 | 67.28 | 17.62 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.24 | 67.62 | 18.13 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 67.20 | 17.52 |      | 100.0 |         |
|           |                                                | Z | 5.08 | 67.47 | 17.92 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.23 | 67.58 | 18.31 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.87 | 67.13 | 17.64 |      | 100.0 |         |
|           |                                                | Z | 5.08 | 67.39 | 18.07 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.33 | 67.90 | 18.71 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.92 | 67.20 | 17.88 |      | 90.0  |         |
|           |                                                | Z | 5.15 | 67.61 | 18.41 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.32 | 67.64 | 18.79 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.96 | 67.09 | 18.03 |      | 90.0  |         |
|           |                                                | Z | 5.16 | 67.40 | 18.51 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.35 | 67.71 | 18.88 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.99 | 67.18 | 18.13 |      | 90.0  |         |
|           |                                                | Z | 5.19 | 67.47 | 18.60 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.24   | 71.34  | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.06   | 70.39  | 14.14 |      | 150.0 |         |
|           |                                                     | Z | 1.38   | 73.61  | 16.70 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 1.25   | 60.73  | 6.15  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.70   | 58.03  | 3.58  |      | 80.0  |         |
|           |                                                     | Z | 1.01   | 60.00  | 5.25  |      | 80.0  |         |
| 10090-DAB | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 113.44 | 27.25 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 8.57   | 81.41  | 17.08 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 110.12 | 25.30 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.00   | 69.16  | 16.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.02   | 70.42  | 16.99 |      | 150.0 |         |
|           |                                                     | Z | 2.05   | 70.09  | 17.23 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.97   | 69.16  | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.98   | 70.36  | 16.97 |      | 150.0 |         |
|           |                                                     | Z | 2.01   | 70.09  | 17.22 |      | 150.0 |         |
| 10099-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 18.50  | 104.29 | 36.04 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 8.27   | 85.97  | 28.85 |      | 60.0  |         |
|           |                                                     | Z | 14.91  | 99.93  | 34.42 |      | 60.0  |         |
| 10100-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.52   | 72.16  | 17.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.26   | 71.84  | 17.59 |      | 150.0 |         |
|           |                                                     | Z | 3.51   | 72.58  | 17.91 |      | 150.0 |         |
| 10101-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.43   | 68.36  | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.23   | 68.20  | 16.36 |      | 150.0 |         |
|           |                                                     | Z | 3.38   | 68.51  | 16.58 |      | 150.0 |         |
| 10102-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.53   | 68.23  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.34   | 68.20  | 16.46 |      | 150.0 |         |
|           |                                                     | Z | 3.48   | 68.40  | 16.63 |      | 150.0 |         |
| 10103-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 7.77   | 77.25  | 20.76 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.84   | 73.76  | 19.09 |      | 65.0  |         |
|           |                                                     | Z | 7.26   | 76.71  | 20.44 |      | 65.0  |         |
| 10104-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 7.72   | 75.83  | 21.08 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.04   | 72.56  | 19.35 |      | 65.0  |         |
|           |                                                     | Z | 7.09   | 74.85  | 20.56 |      | 65.0  |         |
| 10105-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 7.31   | 74.74  | 20.92 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.86   | 71.84  | 19.33 |      | 65.0  |         |
|           |                                                     | Z | 6.98   | 74.49  | 20.71 |      | 65.0  |         |
| 10108-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 3.08   | 71.29  | 17.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.82   | 71.16  | 17.46 |      | 150.0 |         |
|           |                                                     | Z | 3.06   | 71.75  | 17.76 |      | 150.0 |         |
| 10109-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 3.10   | 68.24  | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.89   | 68.31  | 16.36 |      | 150.0 |         |
|           |                                                     | Z | 3.05   | 68.48  | 16.59 |      | 150.0 |         |
| 10110-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.52   | 70.41  | 17.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.29   | 70.52  | 17.13 |      | 150.0 |         |
|           |                                                     | Z | 2.50   | 71.00  | 17.52 |      | 150.0 |         |
| 10111-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.83   | 69.15  | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.74   | 70.25  | 17.08 |      | 150.0 |         |
|           |                                                     | Z | 2.83   | 69.77  | 17.16 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.22 | 68.13 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.02 | 68.33 | 16.41 |      | 150.0 |         |
|           |                                                | Z | 3.17 | 68.38 | 16.59 |      | 150.0 |         |
| 10113-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.98 | 69.16 | 17.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.90 | 70.39 | 17.20 |      | 150.0 |         |
|           |                                                | Z | 2.97 | 69.79 | 17.22 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.23 | 67.35 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.03 | 67.46 | 16.58 |      | 150.0 |         |
|           |                                                | Z | 5.17 | 67.48 | 16.66 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.58 | 67.63 | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.28 | 67.50 | 16.60 |      | 150.0 |         |
|           |                                                | Z | 5.48 | 67.64 | 16.74 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.35 | 67.61 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.12 | 67.65 | 16.60 |      | 150.0 |         |
|           |                                                | Z | 5.28 | 67.70 | 16.69 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.22 | 67.34 | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.01 | 67.39 | 16.57 |      | 150.0 |         |
|           |                                                | Z | 5.15 | 67.38 | 16.62 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.65 | 67.79 | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.34 | 67.65 | 16.68 |      | 150.0 |         |
|           |                                                | Z | 5.56 | 67.82 | 16.83 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.32 | 67.55 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.10 | 67.62 | 16.60 |      | 150.0 |         |
|           |                                                | Z | 5.25 | 67.63 | 16.67 |      | 150.0 |         |
| 10140-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.57 | 68.23 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.36 | 68.19 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 3.52 | 68.40 | 16.55 |      | 150.0 |         |
| 10141-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.69 | 68.25 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.49 | 68.34 | 16.55 |      | 150.0 |         |
|           |                                                | Z | 3.64 | 68.44 | 16.68 |      | 150.0 |         |
| 10142-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.32 | 70.66 | 17.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.13 | 71.23 | 16.96 |      | 150.0 |         |
|           |                                                | Z | 2.33 | 71.54 | 17.51 |      | 150.0 |         |
| 10143-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.77 | 70.29 | 17.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.77 | 72.04 | 17.01 |      | 150.0 |         |
|           |                                                | Z | 2.82 | 71.30 | 17.29 |      | 150.0 |         |
| 10144-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.52 | 67.93 | 15.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.22 | 67.75 | 14.44 |      | 150.0 |         |
|           |                                                | Z | 2.47 | 68.34 | 15.40 |      | 150.0 |         |
| 10145-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.74 | 69.65 | 15.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.09 | 65.08 | 10.97 |      | 150.0 |         |
|           |                                                | Z | 1.68 | 69.82 | 14.65 |      | 150.0 |         |
| 10146-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 3.81 | 74.72 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.30 | 62.61 | 8.43  |      | 150.0 |         |
|           |                                                | Z | 2.56 | 69.84 | 13.60 |      | 150.0 |         |
| 10147-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 5.65 | 80.18 | 18.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.43 | 63.49 | 9.00  |      | 150.0 |         |
|           |                                                | Z | 3.58 | 74.09 | 15.51 |      | 150.0 |         |



|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.11 | 68.31 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.91 | 68.40 | 16.42 |      | 150.0 |         |
|           |                                            | Z | 3.06 | 68.55 | 16.64 |      | 150.0 |         |
| 10150-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.22 | 68.18 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.03 | 68.41 | 16.47 |      | 150.0 |         |
|           |                                            | Z | 3.18 | 68.45 | 16.64 |      | 150.0 |         |
| 10151-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 8.33 | 79.75 | 21.84 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.11 | 75.97 | 19.99 |      | 65.0  |         |
|           |                                            | Z | 7.59 | 78.82 | 21.34 |      | 65.0  |         |
| 10152-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 7.31 | 75.95 | 20.90 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.52 | 72.25 | 18.81 |      | 65.0  |         |
|           |                                            | Z | 6.64 | 74.83 | 20.27 |      | 65.0  |         |
| 10153-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 7.69 | 76.76 | 21.59 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.95 | 73.44 | 19.71 |      | 65.0  |         |
|           |                                            | Z | 7.04 | 75.77 | 21.02 |      | 65.0  |         |
| 10154-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.59 | 70.94 | 17.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.37 | 71.16 | 17.49 |      | 150.0 |         |
|           |                                            | Z | 2.58 | 71.57 | 17.85 |      | 150.0 |         |
| 10155-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.84 | 69.15 | 16.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.75 | 70.29 | 17.10 |      | 150.0 |         |
|           |                                            | Z | 2.83 | 69.78 | 17.18 |      | 150.0 |         |
| 10156-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.22 | 71.24 | 17.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.03 | 71.83 | 16.88 |      | 150.0 |         |
|           |                                            | Z | 2.25 | 72.31 | 17.65 |      | 150.0 |         |
| 10157-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.41 | 68.97 | 15.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.13 | 68.82 | 14.62 |      | 150.0 |         |
|           |                                            | Z | 2.40 | 69.60 | 15.80 |      | 150.0 |         |
| 10158-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.99 | 69.22 | 17.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.91 | 70.51 | 17.27 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 69.86 | 17.28 |      | 150.0 |         |
| 10159-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.55 | 69.49 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.28 | 69.53 | 15.00 |      | 150.0 |         |
|           |                                            | Z | 2.54 | 70.22 | 16.15 |      | 150.0 |         |
| 10160-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.98 | 69.75 | 17.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.79 | 70.01 | 17.07 |      | 150.0 |         |
|           |                                            | Z | 2.95 | 70.19 | 17.27 |      | 150.0 |         |
| 10161-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.12 | 68.11 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.93 | 68.45 | 16.42 |      | 150.0 |         |
|           |                                            | Z | 3.08 | 68.43 | 16.61 |      | 150.0 |         |
| 10162-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.22 | 68.17 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.05 | 68.65 | 16.55 |      | 150.0 |         |
|           |                                            | Z | 3.18 | 68.52 | 16.68 |      | 150.0 |         |
| 10166-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.93 | 70.74 | 19.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.43 | 70.14 | 19.33 |      | 150.0 |         |
|           |                                            | Z | 3.68 | 70.34 | 19.58 |      | 150.0 |         |
| 10167-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 5.19 | 74.75 | 20.73 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.38 | 74.04 | 20.11 |      | 150.0 |         |
|           |                                            | Z | 4.72 | 74.04 | 20.33 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.81  | 77.17  | 22.08 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.26  | 77.99  | 22.19 |      | 150.0 |         |
|           |                                            | Z | 5.34  | 76.71  | 21.82 |      | 150.0 |         |
| 10169-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.56  | 72.28  | 20.57 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.86  | 69.54  | 19.08 |      | 150.0 |         |
|           |                                            | Z | 3.11  | 70.60  | 19.77 |      | 150.0 |         |
| 10170-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 6.00  | 81.84  | 24.06 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.61  | 79.06  | 22.87 |      | 150.0 |         |
|           |                                            | Z | 4.87  | 79.17  | 23.06 |      | 150.0 |         |
| 10171-AAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 4.54  | 75.84  | 20.71 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.31  | 72.09  | 18.82 |      | 150.0 |         |
|           |                                            | Z | 3.74  | 73.54  | 19.72 |      | 150.0 |         |
| 10172-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 25.14 | 108.10 | 32.97 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.74  | 82.52  | 24.00 |      | 65.0  |         |
|           |                                            | Z | 16.06 | 100.53 | 30.42 |      | 65.0  |         |
| 10173-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 44.78 | 112.38 | 32.02 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.96  | 86.94  | 23.54 |      | 65.0  |         |
|           |                                            | Z | 23.18 | 101.80 | 28.68 |      | 65.0  |         |
| 10174-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 25.93 | 101.57 | 28.50 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.84  | 76.89  | 19.58 |      | 65.0  |         |
|           |                                            | Z | 16.75 | 95.00  | 26.09 |      | 65.0  |         |
| 10175-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.50  | 71.88  | 20.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.81  | 69.12  | 18.77 |      | 150.0 |         |
|           |                                            | Z | 3.07  | 70.23  | 19.49 |      | 150.0 |         |
| 10176-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 6.02  | 81.87  | 24.07 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.62  | 79.09  | 22.88 |      | 150.0 |         |
|           |                                            | Z | 4.88  | 79.20  | 23.08 |      | 150.0 |         |
| 10177-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.54  | 72.08  | 20.40 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.84  | 69.31  | 18.88 |      | 150.0 |         |
|           |                                            | Z | 3.10  | 70.41  | 19.60 |      | 150.0 |         |
| 10178-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 5.90  | 81.47  | 23.89 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.55  | 78.74  | 22.71 |      | 150.0 |         |
|           |                                            | Z | 4.80  | 78.87  | 22.92 |      | 150.0 |         |
| 10179-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 5.19  | 78.62  | 22.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.85  | 75.18  | 20.61 |      | 150.0 |         |
|           |                                            | Z | 4.25  | 76.18  | 21.24 |      | 150.0 |         |
| 10180-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 4.51  | 75.72  | 20.64 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.30  | 71.99  | 18.76 |      | 150.0 |         |
|           |                                            | Z | 3.72  | 73.44  | 19.66 |      | 150.0 |         |
| 10181-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.53  | 72.05  | 20.39 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.83  | 69.29  | 18.87 |      | 150.0 |         |
|           |                                            | Z | 3.09  | 70.39  | 19.59 |      | 150.0 |         |
| 10182-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 5.89  | 81.44  | 23.88 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.54  | 78.70  | 22.70 |      | 150.0 |         |
|           |                                            | Z | 4.79  | 78.84  | 22.91 |      | 150.0 |         |
| 10183-AAA | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 4.50  | 75.68  | 20.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.29  | 71.97  | 18.75 |      | 150.0 |         |
|           |                                            | Z | 3.71  | 73.41  | 19.65 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.55 | 72.11 | 20.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.84 | 69.34 | 18.90 |      | 150.0 |         |
|           |                                               | Z | 3.11 | 70.44 | 19.62 |      | 150.0 |         |
| 10185-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 5.92 | 81.53 | 23.92 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.57 | 78.82 | 22.75 |      | 150.0 |         |
|           |                                               | Z | 4.82 | 78.94 | 22.95 |      | 150.0 |         |
| 10186-AAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 4.53 | 75.77 | 20.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.31 | 72.05 | 18.79 |      | 150.0 |         |
|           |                                               | Z | 3.74 | 73.50 | 19.69 |      | 150.0 |         |
| 10187-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.55 | 72.15 | 20.47 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.86 | 69.43 | 18.98 |      | 150.0 |         |
|           |                                               | Z | 3.12 | 70.50 | 19.68 |      | 150.0 |         |
| 10188-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 6.23 | 82.58 | 24.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.83 | 79.99 | 23.34 |      | 150.0 |         |
|           |                                               | Z | 5.04 | 79.88 | 23.43 |      | 150.0 |         |
| 10189-AAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 4.68 | 76.40 | 21.01 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.41 | 72.66 | 19.15 |      | 150.0 |         |
|           |                                               | Z | 3.85 | 74.07 | 20.02 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.65 | 66.81 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.45 | 67.11 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 4.58 | 66.95 | 16.42 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.85 | 67.16 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.60 | 67.36 | 16.47 |      | 150.0 |         |
|           |                                               | Z | 4.76 | 67.28 | 16.54 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.89 | 67.18 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.64 | 67.38 | 16.48 |      | 150.0 |         |
|           |                                               | Z | 4.80 | 67.30 | 16.55 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.67 | 66.90 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.44 | 67.13 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 4.59 | 67.02 | 16.45 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.86 | 67.18 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.61 | 67.37 | 16.48 |      | 150.0 |         |
|           |                                               | Z | 4.78 | 67.30 | 16.55 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.89 | 67.20 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.63 | 67.39 | 16.49 |      | 150.0 |         |
|           |                                               | Z | 4.81 | 67.32 | 16.57 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.62 | 66.92 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.39 | 67.17 | 16.32 |      | 150.0 |         |
|           |                                               | Z | 4.54 | 67.05 | 16.42 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.86 | 67.17 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.60 | 67.33 | 16.46 |      | 150.0 |         |
|           |                                               | Z | 4.77 | 67.27 | 16.54 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.90 | 67.12 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.64 | 67.32 | 16.47 |      | 150.0 |         |
|           |                                               | Z | 4.81 | 67.24 | 16.55 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.20 | 67.36 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.99 | 67.38 | 16.55 |      | 150.0 |         |
|           |                                               | Z | 5.12 | 67.40 | 16.62 |      | 150.0 |         |



|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.54  | 67.59  | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.26  | 67.54  | 16.64 |      | 150.0 |         |
|           |                                           | Z | 5.42  | 67.54  | 16.71 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.25  | 67.46  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.03  | 67.50  | 16.54 |      | 150.0 |         |
|           |                                           | Z | 5.17  | 67.51  | 16.61 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.96  | 66.64  | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.78  | 67.08  | 15.64 |      | 150.0 |         |
|           |                                           | Z | 2.91  | 66.94  | 15.98 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 49.87 | 114.44 | 32.67 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.68  | 88.31  | 24.09 |      | 65.0  |         |
|           |                                           | Z | 25.54 | 103.60 | 29.29 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 33.90 | 106.04 | 29.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.75  | 85.50  | 22.54 |      | 65.0  |         |
|           |                                           | Z | 19.85 | 97.73  | 26.96 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 31.74 | 112.92 | 34.42 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.55  | 85.09  | 25.00 |      | 65.0  |         |
|           |                                           | Z | 16.92 | 101.85 | 30.92 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 44.97 | 112.44 | 32.05 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.04  | 87.06  | 23.59 |      | 65.0  |         |
|           |                                           | Z | 23.35 | 101.91 | 28.72 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 31.27 | 104.55 | 29.32 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.17  | 84.37  | 22.09 |      | 65.0  |         |
|           |                                           | Z | 18.37 | 96.37  | 26.48 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 29.46 | 111.34 | 33.89 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.25  | 84.16  | 24.59 |      | 65.0  |         |
|           |                                           | Z | 15.87 | 100.52 | 30.43 |      | 65.0  |         |
| 10232-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 44.99 | 112.46 | 32.05 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.02  | 87.05  | 23.59 |      | 65.0  |         |
|           |                                           | Z | 23.33 | 101.91 | 28.72 |      | 65.0  |         |
| 10233-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 31.28 | 104.57 | 29.32 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.15  | 84.35  | 22.08 |      | 65.0  |         |
|           |                                           | Z | 18.35 | 96.36  | 26.48 |      | 65.0  |         |
| 10234-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 27.34 | 109.68 | 33.32 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.00  | 83.30  | 24.16 |      | 65.0  |         |
|           |                                           | Z | 14.93 | 99.18  | 29.91 |      | 65.0  |         |
| 10235-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 45.19 | 112.55 | 32.08 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.02  | 87.07  | 23.60 |      | 65.0  |         |
|           |                                           | Z | 23.39 | 101.96 | 28.73 |      | 65.0  |         |
| 10236-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 31.68 | 104.75 | 29.37 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.22  | 84.45  | 22.11 |      | 65.0  |         |
|           |                                           | Z | 18.56 | 96.52  | 26.52 |      | 65.0  |         |
| 10237-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 29.77 | 111.57 | 33.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 6.25  | 84.18  | 24.60 |      | 65.0  |         |
|           |                                           | Z | 15.96 | 100.66 | 30.48 |      | 65.0  |         |
| 10238-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 44.99 | 112.47 | 32.05 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.99  | 87.01  | 23.57 |      | 65.0  |         |
|           |                                           | Z | 23.29 | 101.89 | 28.71 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 31.26 | 104.58 | 29.33 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.13  | 84.32  | 22.07 |      | 65.0 |         |
|           |                                            | Z | 18.31 | 96.35  | 26.47 |      | 65.0 |         |
| 10240-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 29.64 | 111.50 | 33.94 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.24  | 84.16  | 24.58 |      | 65.0 |         |
|           |                                            | Z | 15.90 | 100.60 | 30.46 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 10.98 | 85.42  | 26.88 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.75  | 80.32  | 24.08 |      | 65.0 |         |
|           |                                            | Z | 9.43  | 83.16  | 25.70 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 9.67  | 82.65  | 25.70 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.10  | 78.62  | 23.30 |      | 65.0 |         |
|           |                                            | Z | 8.88  | 81.85  | 25.09 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 7.59  | 79.03  | 25.14 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.76  | 75.20  | 22.77 |      | 65.0 |         |
|           |                                            | Z | 7.01  | 78.24  | 24.54 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 8.27  | 79.08  | 20.17 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.11  | 69.13  | 14.03 |      | 65.0 |         |
|           |                                            | Z | 6.34  | 75.17  | 17.90 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 8.11  | 78.53  | 19.91 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.05  | 68.72  | 13.80 |      | 65.0 |         |
|           |                                            | Z | 6.21  | 74.64  | 17.63 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 8.01  | 81.63  | 21.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.88  | 71.52  | 15.66 |      | 65.0 |         |
|           |                                            | Z | 6.40  | 78.48  | 19.46 |      | 65.0 |         |
| 10247-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 6.66  | 76.36  | 19.82 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.30  | 70.43  | 15.91 |      | 65.0 |         |
|           |                                            | Z | 5.77  | 74.50  | 18.59 |      | 65.0 |         |
| 10248-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 6.65  | 75.86  | 19.60 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.30  | 70.01  | 15.71 |      | 65.0 |         |
|           |                                            | Z | 5.75  | 74.01  | 18.38 |      | 65.0 |         |
| 10249-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 9.14  | 83.95  | 22.71 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.14  | 75.83  | 18.53 |      | 65.0 |         |
|           |                                            | Z | 7.78  | 81.82  | 21.55 |      | 65.0 |         |
| 10250-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 7.55  | 78.41  | 21.94 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.53  | 74.28  | 19.50 |      | 65.0 |         |
|           |                                            | Z | 6.81  | 77.21  | 21.22 |      | 65.0 |         |
| 10251-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 7.15  | 76.27  | 20.79 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.22  | 72.17  | 18.22 |      | 65.0 |         |
|           |                                            | Z | 6.45  | 75.09  | 20.03 |      | 65.0 |         |
| 10252-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 8.99  | 82.99  | 23.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.99  | 77.64  | 20.45 |      | 65.0 |         |
|           |                                            | Z | 8.02  | 81.75  | 22.40 |      | 65.0 |         |
| 10253-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 7.11  | 75.31  | 20.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.45  | 71.89  | 18.59 |      | 65.0 |         |
|           |                                            | Z | 6.48  | 74.28  | 20.04 |      | 65.0 |         |
| 10254-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 7.48  | 76.11  | 21.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.82  | 72.92  | 19.36 |      | 65.0 |         |
|           |                                            | Z | 6.86  | 75.16  | 20.73 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 7.99 | 79.26 | 21.89 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.90 | 75.53 | 19.97 |      | 65.0 |         |
|           |                                             | Z | 7.27 | 78.32 | 21.37 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 6.90 | 75.94 | 18.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.08 | 65.41 | 11.15 |      | 65.0 |         |
|           |                                             | Z | 4.92 | 71.22 | 15.25 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 6.71 | 75.19 | 17.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.05 | 65.03 | 10.88 |      | 65.0 |         |
|           |                                             | Z | 4.82 | 70.61 | 14.90 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 6.51 | 78.02 | 19.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.87 | 67.13 | 12.71 |      | 65.0 |         |
|           |                                             | Z | 4.84 | 73.92 | 16.88 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 7.01 | 77.08 | 20.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.77 | 71.89 | 17.22 |      | 65.0 |         |
|           |                                             | Z | 6.18 | 75.51 | 19.54 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 7.03 | 76.82 | 20.48 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.81 | 71.69 | 17.14 |      | 65.0 |         |
|           |                                             | Z | 6.20 | 75.25 | 19.45 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 8.64 | 82.79 | 22.63 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.30 | 76.01 | 19.09 |      | 65.0 |         |
|           |                                             | Z | 7.51 | 81.03 | 21.65 |      | 65.0 |         |
| 10262-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 7.54 | 78.36 | 21.91 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.51 | 74.20 | 19.45 |      | 65.0 |         |
|           |                                             | Z | 6.80 | 77.15 | 21.17 |      | 65.0 |         |
| 10263-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 7.15 | 76.26 | 20.78 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.21 | 72.15 | 18.22 |      | 65.0 |         |
|           |                                             | Z | 6.44 | 75.07 | 20.03 |      | 65.0 |         |
| 10264-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 8.91 | 82.82 | 23.00 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.93 | 77.44 | 20.35 |      | 65.0 |         |
|           |                                             | Z | 7.95 | 81.56 | 22.31 |      | 65.0 |         |
| 10265-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 7.31 | 75.95 | 20.91 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.52 | 72.26 | 18.81 |      | 65.0 |         |
|           |                                             | Z | 6.63 | 74.84 | 20.27 |      | 65.0 |         |
| 10266-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 7.68 | 76.75 | 21.58 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.94 | 73.43 | 19.70 |      | 65.0 |         |
|           |                                             | Z | 7.03 | 75.76 | 21.02 |      | 65.0 |         |
| 10267-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 8.32 | 79.72 | 21.82 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.10 | 75.94 | 19.97 |      | 65.0 |         |
|           |                                             | Z | 7.57 | 78.78 | 21.32 |      | 65.0 |         |
| 10268-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 7.82 | 75.54 | 21.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.22 | 72.59 | 19.47 |      | 65.0 |         |
|           |                                             | Z | 7.22 | 74.65 | 20.60 |      | 65.0 |         |
| 10269-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 7.75 | 75.10 | 20.99 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.23 | 72.29 | 19.39 |      | 65.0 |         |
|           |                                             | Z | 7.17 | 74.24 | 20.50 |      | 65.0 |         |
| 10270-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 7.89 | 76.97 | 20.90 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.19 | 74.14 | 19.46 |      | 65.0 |         |
|           |                                             | Z | 7.28 | 76.18 | 20.47 |      | 65.0 |         |



|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.72   | 67.06  | 15.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.63   | 67.77  | 15.74 |      | 150.0 |         |
|           |                                                                    | Z | 2.71   | 67.52  | 16.01 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.86   | 70.21  | 17.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.75   | 70.45  | 16.88 |      | 150.0 |         |
|           |                                                                    | Z | 1.89   | 71.11  | 17.46 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 3.59   | 65.02  | 10.53 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.63   | 61.96  | 7.61  |      | 50.0  |         |
|           |                                                                    | Z | 3.01   | 63.28  | 8.92  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 7.06   | 76.72  | 18.47 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.81   | 66.84  | 12.26 |      | 50.0  |         |
|           |                                                                    | Z | 5.17   | 71.74  | 15.52 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 7.23   | 76.98  | 18.60 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.88   | 67.01  | 12.38 |      | 50.0  |         |
|           |                                                                    | Z | 5.29   | 71.99  | 15.67 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.15   | 74.03  | 17.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.80   | 72.93  | 15.21 |      | 150.0 |         |
|           |                                                                    | Z | 2.43   | 76.43  | 17.77 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.20   | 70.91  | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.01   | 69.88  | 13.90 |      | 150.0 |         |
|           |                                                                    | Z | 1.32   | 73.03  | 16.44 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.99   | 79.55  | 19.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.74   | 90.90  | 21.82 |      | 150.0 |         |
|           |                                                                    | Z | 3.56   | 88.64  | 22.63 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 4.12   | 91.41  | 24.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 134.36 | 33.26 |      | 150.0 |         |
|           |                                                                    | Z | 27.01  | 120.32 | 31.94 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 8.78   | 81.99  | 23.06 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 7.31   | 77.22  | 19.24 |      | 50.0  |         |
|           |                                                                    | Z | 8.03   | 80.13  | 21.60 |      | 50.0  |         |
| 10297-AAA | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 3.09   | 71.40  | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.84   | 71.31  | 17.55 |      | 150.0 |         |
|           |                                                                    | Z | 3.07   | 71.88  | 17.84 |      | 150.0 |         |
| 10298-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 2.05   | 71.23  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.66   | 70.00  | 14.70 |      | 150.0 |         |
|           |                                                                    | Z | 2.08   | 72.31  | 16.72 |      | 150.0 |         |
| 10299-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 4.37   | 76.48  | 17.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.14   | 67.58  | 12.15 |      | 150.0 |         |
|           |                                                                    | Z | 3.52   | 73.84  | 16.30 |      | 150.0 |         |
| 10300-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.79   | 69.15  | 14.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.52   | 63.11  | 9.22  |      | 150.0 |         |
|           |                                                                    | Z | 2.22   | 66.81  | 12.44 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.19   | 66.62  | 18.24 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.48   | 65.33  | 17.22 |      | 50.0  |         |
|           |                                                                    | Z | 4.82   | 65.73  | 17.68 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.65   | 67.13  | 18.91 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.06   | 66.36  | 18.12 |      | 50.0  |         |
|           |                                                                    | Z | 5.40   | 66.77  | 18.64 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.43 | 66.97 | 18.87 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.84 | 66.06 | 17.97 |       | 50.0  |         |
|           |                                                                     | Z | 5.17 | 66.52 | 18.54 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.17 | 66.58 | 18.21 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.64 | 65.98 | 17.52 |       | 50.0  |         |
|           |                                                                     | Z | 4.94 | 66.26 | 17.96 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 5.52 | 71.81 | 22.19 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.73 | 69.64 | 20.06 |       | 35.0  |         |
|           |                                                                     | Z | 5.06 | 70.43 | 21.24 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 5.38 | 68.23 | 20.22 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.81 | 67.72 | 19.36 |       | 35.0  |         |
|           |                                                                     | Z | 5.10 | 68.20 | 20.20 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 5.45 | 69.70 | 21.05 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.74 | 68.00 | 19.38 |       | 35.0  |         |
|           |                                                                     | Z | 5.07 | 68.67 | 20.31 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 5.45 | 70.04 | 21.24 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.74 | 68.30 | 19.56 |       | 35.0  |         |
|           |                                                                     | Z | 5.07 | 68.99 | 20.51 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 5.47 | 68.54 | 20.40 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.83 | 67.82 | 19.46 |       | 35.0  |         |
|           |                                                                     | Z | 5.18 | 68.47 | 20.37 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 5.42 | 69.27 | 20.90 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.78 | 67.88 | 19.39 |       | 35.0  |         |
|           |                                                                     | Z | 5.08 | 68.38 | 20.23 |       | 35.0  |         |
| 10311-AAA | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.47 | 70.61 | 17.15 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.22 | 70.46 | 17.12 |       | 150.0 |         |
|           |                                                                     | Z | 3.46 | 71.02 | 17.38 |       | 150.0 |         |
| 10313-AAA | IDEN 1:3                                                            | X | 5.55 | 75.66 | 17.16 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 3.06 | 69.43 | 14.19 |       | 70.0  |         |
|           |                                                                     | Z | 4.26 | 72.77 | 15.69 |       | 70.0  |         |
| 10314-AAA | IDEN 1:6                                                            | X | 7.21 | 81.98 | 22.11 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 4.34 | 74.86 | 18.94 |       | 30.0  |         |
|           |                                                                     | Z | 5.62 | 78.53 | 20.52 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.17 | 65.15 | 16.29 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.12 | 64.94 | 15.96 |       | 150.0 |         |
|           |                                                                     | Z | 1.15 | 65.39 | 16.45 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.72 | 66.85 | 16.49 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 66.93 | 16.31 |       | 150.0 |         |
|           |                                                                     | Z | 4.63 | 66.93 | 16.48 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.72 | 66.85 | 16.49 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 66.93 | 16.31 |       | 150.0 |         |
|           |                                                                     | Z | 4.63 | 66.93 | 16.48 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.85 | 67.23 | 16.51 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.57 | 67.36 | 16.43 |       | 150.0 |         |
|           |                                                                     | Z | 4.76 | 67.33 | 16.54 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.48 | 67.25 | 16.56 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.21 | 67.16 | 16.40 |       | 150.0 |         |
|           |                                                                     | Z | 5.42 | 67.38 | 16.60 |       | 150.0 |         |

|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.78   | 67.76  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.54   | 67.69  | 16.56 |      | 150.0 |         |
|           |                                                                                | Z | 5.69   | 67.77  | 16.65 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 2.15   | 74.03  | 17.23 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.80   | 72.93  | 15.21 |      | 115.0 |         |
|           |                                                                                | Z | 2.43   | 76.43  | 17.77 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 2.15   | 74.03  | 17.23 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.80   | 72.93  | 15.21 |      | 115.0 |         |
|           |                                                                                | Z | 2.43   | 76.43  | 17.77 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 100.00 | 122.21 | 30.92 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 114.59 | 26.52 |      | 100.0 |         |
|           |                                                                                | Z | 100.00 | 121.79 | 30.27 |      | 100.0 |         |
| 10410-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 0.97   | 60.00  | 4.80  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 66.33  | 60.91  | 1.56  |      | 80.0  |         |
|           |                                                                                | Z | 0.79   | 60.00  | 3.97  |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.05   | 63.95  | 15.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.04   | 64.28  | 15.62 |      | 150.0 |         |
|           |                                                                                | Z | 1.05   | 64.36  | 15.90 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.66   | 66.84  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.44   | 67.11  | 16.41 |      | 150.0 |         |
|           |                                                                                | Z | 4.59   | 66.99  | 16.49 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.66   | 66.84  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.44   | 67.11  | 16.41 |      | 150.0 |         |
|           |                                                                                | Z | 4.59   | 66.99  | 16.49 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.65   | 67.00  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.44   | 67.32  | 16.47 |      | 150.0 |         |
|           |                                                                                | Z | 4.58   | 67.16  | 16.51 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.67   | 66.95  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.46   | 67.25  | 16.45 |      | 150.0 |         |
|           |                                                                                | Z | 4.60   | 67.10  | 16.51 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.79   | 66.94  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.56   | 67.21  | 16.45 |      | 150.0 |         |
|           |                                                                                | Z | 4.72   | 67.08  | 16.51 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 4.98   | 67.31  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.70   | 67.48  | 16.54 |      | 150.0 |         |
|           |                                                                                | Z | 4.89   | 67.41  | 16.63 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.90   | 67.25  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.63   | 67.44  | 16.53 |      | 150.0 |         |
|           |                                                                                | Z | 4.81   | 67.37  | 16.61 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.46   | 67.51  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.22   | 67.56  | 16.63 |      | 150.0 |         |
|           |                                                                                | Z | 5.39   | 67.59  | 16.71 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.47   | 67.53  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.23   | 67.60  | 16.65 |      | 150.0 |         |
|           |                                                                                | Z | 5.39   | 67.60  | 16.71 |      | 150.0 |         |



|           |                                                                |   |       |       |       |      |       |         |
|-----------|----------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.49  | 67.53 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.22  | 67.49 | 16.59 |      | 150.0 |         |
|           |                                                                | Z | 5.41  | 67.60 | 16.71 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.42  | 70.87 | 18.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.77  | 74.46 | 19.71 |      | 150.0 |         |
|           |                                                                | Z | 4.46  | 71.80 | 18.85 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.39  | 67.47 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.10  | 67.83 | 16.43 |      | 150.0 |         |
|           |                                                                | Z | 4.30  | 67.67 | 16.58 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.67  | 67.32 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.40  | 67.58 | 16.49 |      | 150.0 |         |
|           |                                                                | Z | 4.59  | 67.47 | 16.59 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.91  | 67.30 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.65  | 67.48 | 16.55 |      | 150.0 |         |
|           |                                                                | Z | 4.82  | 67.41 | 16.63 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.56  | 71.79 | 18.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.17  | 76.23 | 19.92 |      | 150.0 |         |
|           |                                                                | Z | 4.65  | 72.96 | 18.97 |      | 150.0 |         |
| 10435-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 0.97  | 60.00 | 4.80  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 64.02 | 60.82 | 1.52  |      | 80.0  |         |
|           |                                                                | Z | 0.79  | 60.00 | 3.96  |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.73  | 67.68 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.41  | 68.04 | 15.66 |      | 150.0 |         |
|           |                                                                | Z | 3.64  | 67.97 | 16.11 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.22  | 67.26 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.96  | 67.63 | 16.31 |      | 150.0 |         |
|           |                                                                | Z | 4.14  | 67.47 | 16.45 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.47  | 67.16 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.24  | 67.43 | 16.41 |      | 150.0 |         |
|           |                                                                | Z | 4.40  | 67.32 | 16.51 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.65  | 67.07 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.44  | 67.28 | 16.42 |      | 150.0 |         |
|           |                                                                | Z | 4.58  | 67.20 | 16.50 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.66  | 68.04 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.27  | 68.09 | 15.12 |      | 150.0 |         |
|           |                                                                | Z | 3.57  | 68.31 | 15.83 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.32  | 68.09 | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.14  | 68.13 | 16.78 |      | 150.0 |         |
|           |                                                                | Z | 6.24  | 68.10 | 16.82 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.86  | 65.47 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.76  | 65.80 | 16.14 |      | 150.0 |         |
|           |                                                                | Z | 3.82  | 65.61 | 16.21 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.48  | 67.33 | 15.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.98  | 66.88 | 14.08 |      | 150.0 |         |
|           |                                                                | Z | 3.38  | 67.60 | 15.25 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.52  | 65.17 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.03  | 65.19 | 15.21 |      | 150.0 |         |
|           |                                                                | Z | 4.38  | 65.35 | 15.86 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.14   | 72.72  | 18.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 1.11   | 73.06  | 18.84 |      | 150.0 |         |
|           |                                                                   | Z | 1.24   | 74.89  | 19.95 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 122.38 | 31.17 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.58   | 74.19  | 16.31 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 120.11 | 29.61 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 12.52  | 83.88  | 17.66 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.88   | 60.00  | 7.00  |      | 80.0  |         |
|           |                                                                   | Z | 1.51   | 63.61  | 9.76  |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.57   | 70.44  | 12.88 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.90   | 60.00  | 6.50  |      | 80.0  |         |
|           |                                                                   | Z | 1.11   | 60.56  | 7.86  |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 120.00 | 29.91 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.86   | 70.01  | 14.14 |      | 80.0  |         |
|           |                                                                   | Z | 83.68  | 115.00 | 27.63 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.62   | 78.77  | 16.08 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.88   | 60.00  | 6.94  |      | 80.0  |         |
|           |                                                                   | Z | 1.39   | 62.80  | 9.33  |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.95   | 68.55  | 12.12 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.90   | 60.00  | 6.46  |      | 80.0  |         |
|           |                                                                   | Z | 1.07   | 60.20  | 7.64  |      | 80.0  |         |
| 10467-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 120.24 | 30.02 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.95   | 70.61  | 14.41 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 117.39 | 28.20 |      | 80.0  |         |
| 10468-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.51   | 79.92  | 16.44 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.87   | 60.00  | 6.96  |      | 80.0  |         |
|           |                                                                   | Z | 1.41   | 62.99  | 9.43  |      | 80.0  |         |
| 10469-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.97   | 68.61  | 12.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.90   | 60.00  | 6.46  |      | 80.0  |         |
|           |                                                                   | Z | 1.07   | 60.21  | 7.64  |      | 80.0  |         |
| 10470-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 120.26 | 30.02 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.94   | 70.60  | 14.39 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 117.40 | 28.20 |      | 80.0  |         |
| 10471-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 8.39   | 79.75  | 16.38 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.87   | 60.00  | 6.95  |      | 80.0  |         |
|           |                                                                   | Z | 1.40   | 62.93  | 9.39  |      | 80.0  |         |
| 10472-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.94   | 68.52  | 12.10 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.90   | 60.00  | 6.44  |      | 80.0  |         |
|           |                                                                   | Z | 1.06   | 60.17  | 7.61  |      | 80.0  |         |
| 10473-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 120.22 | 30.00 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.94   | 70.56  | 14.37 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 117.36 | 28.18 |      | 80.0  |         |
| 10474-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 8.29   | 79.64  | 16.35 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.87   | 60.00  | 6.95  |      | 80.0  |         |
|           |                                                                   | Z | 1.40   | 62.90  | 9.38  |      | 80.0  |         |
| 10475-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.92   | 68.48  | 12.08 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.90   | 60.00  | 6.44  |      | 80.0  |         |
|           |                                                                   | Z | 1.06   | 60.16  | 7.60  |      | 80.0  |         |

|           |                                                                     |   |       |       |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10477-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 7.60  | 78.73 | 16.04 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.87  | 60.00 | 6.92  |      | 80.0 |         |
|           |                                                                     | Z | 1.37  | 62.73 | 9.28  |      | 80.0 |         |
| 10478-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 2.89  | 68.36 | 12.03 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.90  | 60.00 | 6.43  |      | 80.0 |         |
|           |                                                                     | Z | 1.06  | 60.13 | 7.58  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.52  | 62.93 | 9.18  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.25  | 60.00 | 4.37  |      | 80.0 |         |
|           |                                                                     | Z | 1.00  | 60.00 | 6.53  |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.39  | 60.00 | 6.84  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 87.52 | 57.74 | 1.24  |      | 80.0 |         |
|           |                                                                     | Z | 1.32  | 60.00 | 5.71  |      | 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  | 60.00 | 6.62  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 58.31 | 56.64 | 0.81  |      | 80.0 |         |
|           |                                                                     | Z | 1.37  | 60.00 | 5.48  |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.87  | 77.15 | 18.33 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.46  | 63.35 | 10.88 |      | 80.0 |         |
|           |                                                                     | Z | 3.38  | 72.70 | 16.07 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.82  | 78.21 | 18.53 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.54  | 61.01 | 9.00  |      | 80.0 |         |
|           |                                                                     | Z | 3.69  | 70.35 | 14.72 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.25  | 76.88 | 18.09 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.54  | 60.84 | 8.93  |      | 80.0 |         |
|           |                                                                     | Z | 3.52  | 69.57 | 14.44 |      | 80.0 |         |
| 10485-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.58  | 79.51 | 20.07 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.35  | 68.86 | 14.75 |      | 80.0 |         |
|           |                                                                     | Z | 4.43  | 76.79 | 18.70 |      | 80.0 |         |
| 10486-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.07  | 71.93 | 17.02 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.17  | 64.80 | 12.42 |      | 80.0 |         |
|           |                                                                     | Z | 3.42  | 70.02 | 15.76 |      | 80.0 |         |
| 10487-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.02  | 71.40 | 16.82 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.18  | 64.54 | 12.29 |      | 80.0 |         |
|           |                                                                     | Z | 3.38  | 69.54 | 15.57 |      | 80.0 |         |
| 10488-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.36  | 77.61 | 20.08 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.05  | 70.87 | 16.91 |      | 80.0 |         |
|           |                                                                     | Z | 4.57  | 75.92 | 19.28 |      | 80.0 |         |
| 10489-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.24  | 71.49 | 18.00 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.03  | 67.88 | 15.70 |      | 80.0 |         |
|           |                                                                     | Z | 3.82  | 70.54 | 17.38 |      | 80.0 |         |
| 10490-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.29  | 71.12 | 17.89 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.11  | 67.76 | 15.68 |      | 80.0 |         |
|           |                                                                     | Z | 3.88  | 70.25 | 17.30 |      | 80.0 |         |
| 10491-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.01  | 74.50 | 19.11 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.34  | 69.86 | 16.86 |      | 80.0 |         |
|           |                                                                     | Z | 4.43  | 73.31 | 18.53 |      | 80.0 |         |
| 10492-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.45  | 70.28 | 17.82 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.43  | 67.60 | 16.14 |      | 80.0 |         |
|           |                                                                     | Z | 4.09  | 69.54 | 17.35 |      | 80.0 |         |



|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.50 | 70.05 | 17.75 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.49 | 67.49 | 16.11 |      | 80.0 |         |
|           |                                                                      | Z | 4.14 | 69.34 | 17.29 |      | 80.0 |         |
| 10494-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.75 | 76.69 | 19.70 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.59 | 71.09 | 17.22 |      | 80.0 |         |
|           |                                                                      | Z | 5.00 | 75.22 | 19.05 |      | 80.0 |         |
| 10495-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.55 | 70.89 | 18.06 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.46 | 67.94 | 16.36 |      | 80.0 |         |
|           |                                                                      | Z | 4.15 | 70.05 | 17.58 |      | 80.0 |         |
| 10496-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.58 | 70.43 | 17.92 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.55 | 67.75 | 16.33 |      | 80.0 |         |
|           |                                                                      | Z | 4.20 | 69.66 | 17.47 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.04 | 70.81 | 15.06 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.02 | 60.00 | 7.87  |      | 80.0 |         |
|           |                                                                      | Z | 1.87 | 65.39 | 11.99 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.09 | 63.78 | 11.18 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.22 | 60.00 | 6.94  |      | 80.0 |         |
|           |                                                                      | Z | 1.45 | 60.48 | 8.72  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.03 | 63.20 | 10.78 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.24 | 60.00 | 6.81  |      | 80.0 |         |
|           |                                                                      | Z | 1.42 | 60.08 | 8.39  |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.24 | 78.06 | 19.88 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.64 | 69.78 | 15.69 |      | 80.0 |         |
|           |                                                                      | Z | 4.37 | 76.04 | 18.83 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.15 | 71.73 | 17.40 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.57 | 66.38 | 13.86 |      | 80.0 |         |
|           |                                                                      | Z | 3.62 | 70.38 | 16.46 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.17 | 71.42 | 17.24 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.60 | 66.18 | 13.71 |      | 80.0 |         |
|           |                                                                      | Z | 3.65 | 70.10 | 16.30 |      | 80.0 |         |
| 10503-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.27 | 77.33 | 19.96 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.00 | 70.63 | 16.79 |      | 80.0 |         |
|           |                                                                      | Z | 4.48 | 75.64 | 19.16 |      | 80.0 |         |
| 10504-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.21 | 71.38 | 17.94 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.01 | 67.75 | 15.63 |      | 80.0 |         |
|           |                                                                      | Z | 3.79 | 70.42 | 17.31 |      | 80.0 |         |
| 10505-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.27 | 71.02 | 17.83 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.09 | 67.65 | 15.61 |      | 80.0 |         |
|           |                                                                      | Z | 3.86 | 70.14 | 17.23 |      | 80.0 |         |
| 10506-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.69 | 76.49 | 19.62 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.55 | 70.91 | 17.13 |      | 80.0 |         |
|           |                                                                      | Z | 4.94 | 75.03 | 18.96 |      | 80.0 |         |
| 10507-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.53 | 70.82 | 18.02 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.45 | 67.86 | 16.31 |      | 80.0 |         |
|           |                                                                      | Z | 4.14 | 69.98 | 17.53 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.56 | 70.35 | 17.88 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.53 | 67.66 | 16.28 |      | 80.0  |         |
|           |                                                                     | Z | 4.19 | 69.58 | 17.42 |      | 80.0  |         |
| 10509-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.53 | 73.90 | 18.72 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.94 | 70.00 | 16.91 |      | 80.0  |         |
|           |                                                                     | Z | 4.97 | 72.85 | 18.22 |      | 80.0  |         |
| 10510-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.95 | 70.19 | 17.87 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.94 | 67.71 | 16.49 |      | 80.0  |         |
|           |                                                                     | Z | 4.57 | 69.46 | 17.46 |      | 80.0  |         |
| 10511-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.96 | 69.81 | 17.77 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.00 | 67.53 | 16.46 |      | 80.0  |         |
|           |                                                                     | Z | 4.60 | 69.13 | 17.39 |      | 80.0  |         |
| 10512-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.18 | 76.27 | 19.40 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.05 | 71.14 | 17.17 |      | 80.0  |         |
|           |                                                                     | Z | 5.44 | 74.89 | 18.79 |      | 80.0  |         |
| 10513-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.89 | 70.72 | 18.05 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.82 | 67.88 | 16.54 |      | 80.0  |         |
|           |                                                                     | Z | 4.49 | 69.87 | 17.61 |      | 80.0  |         |
| 10514-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.84 | 70.11 | 17.88 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.86 | 67.56 | 16.48 |      | 80.0  |         |
|           |                                                                     | Z | 4.48 | 69.34 | 17.46 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.02 | 64.23 | 15.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.01 | 64.55 | 15.75 |      | 150.0 |         |
|           |                                                                     | Z | 1.02 | 64.69 | 16.06 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.06 | 81.69 | 23.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.90 | 79.38 | 22.16 |      | 150.0 |         |
|           |                                                                     | Z | 1.44 | 88.61 | 25.95 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.92 | 67.36 | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.89 | 67.43 | 16.99 |      | 150.0 |         |
|           |                                                                     | Z | 0.93 | 68.24 | 17.65 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.65 | 66.93 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.44 | 67.21 | 16.41 |      | 150.0 |         |
|           |                                                                     | Z | 4.58 | 67.08 | 16.47 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.86 | 67.19 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.59 | 67.38 | 16.49 |      | 150.0 |         |
|           |                                                                     | Z | 4.77 | 67.30 | 16.58 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.71 | 67.18 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.45 | 67.34 | 16.43 |      | 150.0 |         |
|           |                                                                     | Z | 4.63 | 67.29 | 16.52 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.65 | 67.20 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.39 | 67.34 | 16.42 |      | 150.0 |         |
|           |                                                                     | Z | 4.56 | 67.30 | 16.52 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.70 | 67.21 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.44 | 67.45 | 16.51 |      | 150.0 |         |
|           |                                                                     | Z | 4.62 | 67.37 | 16.59 |      | 150.0 |         |



|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.57 | 67.10 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.36 | 67.43 | 16.42 |      | 150.0 |         |
|           |                                                            | Z | 4.50 | 67.26 | 16.45 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.65 | 67.15 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.39 | 67.39 | 16.49 |      | 150.0 |         |
|           |                                                            | Z | 4.56 | 67.30 | 16.56 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.61 | 66.19 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 66.51 | 16.12 |      | 150.0 |         |
|           |                                                            | Z | 4.55 | 66.35 | 16.16 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.81 | 66.59 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.55 | 66.81 | 16.24 |      | 150.0 |         |
|           |                                                            | Z | 4.73 | 66.73 | 16.30 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.73 | 66.57 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.48 | 66.79 | 16.19 |      | 150.0 |         |
|           |                                                            | Z | 4.65 | 66.71 | 16.26 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.74 | 66.59 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.49 | 66.81 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.72 | 16.29 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.74 | 66.59 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.49 | 66.81 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.72 | 16.29 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.75 | 66.73 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.47 | 66.86 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.85 | 16.31 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.60 | 66.80 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.35 | 66.73 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 4.52 | 66.71 | 16.25 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.76 | 66.62 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.50 | 66.89 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 4.68 | 66.77 | 16.28 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.25 | 66.68 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.03 | 66.74 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 5.18 | 66.75 | 16.28 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.32 | 66.82 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.08 | 66.89 | 16.28 |      | 150.0 |         |
|           |                                                            | Z | 5.25 | 66.92 | 16.35 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.19 | 66.82 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.97 | 66.90 | 16.27 |      | 150.0 |         |
|           |                                                            | Z | 5.12 | 66.90 | 16.33 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.25 | 66.78 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.02 | 66.85 | 16.25 |      | 150.0 |         |
|           |                                                            | Z | 5.18 | 66.85 | 16.31 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.36 | 66.82 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.09 | 66.82 | 16.27 |      | 150.0 |         |
|           |                                                            | Z | 5.27 | 66.86 | 16.35 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.27 | 66.79 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.02 | 66.80 | 16.28 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.88 | 16.38 |      | 150.0 |         |



|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.25 | 66.69 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.01 | 66.72 | 16.22 |      | 150.0 |         |
|           |                                                     | Z | 5.17 | 66.75 | 16.31 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.40 | 66.73 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.16 | 66.79 | 16.27 |      | 150.0 |         |
|           |                                                     | Z | 5.32 | 66.80 | 16.34 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.48 | 66.75 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.22 | 66.80 | 16.30 |      | 150.0 |         |
|           |                                                     | Z | 5.40 | 66.82 | 16.37 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.54 | 66.78 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.36 | 66.81 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.48 | 66.84 | 16.26 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 5.74 | 67.16 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.52 | 67.18 | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 5.67 | 67.22 | 16.39 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.63 | 67.04 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.40 | 66.94 | 16.22 |      | 150.0 |         |
|           |                                                     | Z | 5.55 | 67.06 | 16.33 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 5.72 | 67.11 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.47 | 67.00 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.62 | 67.09 | 16.33 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 5.96 | 68.02 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.61 | 67.63 | 16.53 |      | 150.0 |         |
|           |                                                     | Z | 5.84 | 67.94 | 16.73 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.65 | 67.01 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.44 | 67.04 | 16.28 |      | 150.0 |         |
|           |                                                     | Z | 5.57 | 67.06 | 16.34 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.66 | 67.07 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.41 | 66.94 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.59 | 67.12 | 16.33 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.57 | 66.86 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.38 | 66.92 | 16.19 |      | 150.0 |         |
|           |                                                     | Z | 5.50 | 66.93 | 16.24 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.66 | 66.91 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.43 | 66.88 | 16.20 |      | 150.0 |         |
|           |                                                     | Z | 5.58 | 66.95 | 16.28 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.94 | 67.14 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.77 | 67.11 | 16.24 |      | 150.0 |         |
|           |                                                     | Z | 5.88 | 67.18 | 16.33 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.08 | 67.45 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.87 | 67.35 | 16.34 |      | 150.0 |         |
|           |                                                     | Z | 6.01 | 67.47 | 16.44 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.09 | 67.48 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.90 | 67.42 | 16.37 |      | 150.0 |         |
|           |                                                     | Z | 6.03 | 67.52 | 16.46 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.08 | 67.43 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.86 | 67.33 | 16.34 |      | 150.0 |         |
|           |                                                     | Z | 6.00 | 67.44 | 16.44 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.13  | 67.60  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.89  | 67.44  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 6.05  | 67.60  | 16.54 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.13  | 67.45  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.90  | 67.33  | 16.39 |      | 150.0 |         |
|           |                                                                 | Z | 6.05  | 67.46  | 16.50 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 6.04  | 67.40  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.82  | 67.29  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 5.97  | 67.41  | 16.52 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.18  | 67.83  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.90  | 67.52  | 16.52 |      | 150.0 |         |
|           |                                                                 | Z | 6.09  | 67.79  | 16.71 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.51  | 68.35  | 16.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.97  | 67.39  | 16.42 |      | 150.0 |         |
|           |                                                                 | Z | 6.33  | 68.11  | 16.82 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.98  | 66.99  | 16.56 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74  | 67.14  | 16.46 |      | 150.0 |         |
|           |                                                                 | Z | 4.90  | 67.09  | 16.58 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.23  | 67.46  | 16.89 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95  | 67.58  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 5.13  | 67.54  | 16.89 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.06  | 67.33  | 16.71 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78  | 67.40  | 16.59 |      | 150.0 |         |
|           |                                                                 | Z | 4.97  | 67.40  | 16.72 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.09  | 67.73  | 17.06 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83  | 67.90  | 17.03 |      | 150.0 |         |
|           |                                                                 | Z | 5.00  | 67.82  | 17.09 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.97  | 67.07  | 16.47 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.67  | 67.07  | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 4.88  | 67.16  | 16.48 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.04  | 67.76  | 17.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.82  | 68.12  | 17.16 |      | 150.0 |         |
|           |                                                                 | Z | 4.96  | 67.90  | 17.13 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.08  | 67.60  | 17.03 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.82  | 67.88  | 17.04 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.74  | 17.07 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.30  | 66.16  | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.18  | 65.12  | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 1.26  | 66.12  | 16.68 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.33  | 66.88  | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.20  | 65.80  | 16.31 |      | 130.0 |         |
|           |                                                                 | Z | 1.29  | 66.86  | 17.12 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 23.97 | 125.48 | 34.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.95  | 92.63  | 25.78 |      | 130.0 |         |
|           |                                                                 | Z | 46.76 | 138.17 | 37.75 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.69  | 75.17  | 21.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.43  | 73.23  | 20.08 |      | 130.0 |         |
|           |                                                                 | Z | 1.65  | 75.63  | 21.32 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.76 | 66.76 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.50 | 66.82 | 16.39 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.82 | 16.56 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.79 | 66.92 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 67.04 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 67.00 | 16.63 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.02 | 67.24 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 67.28 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.91 | 67.29 | 16.80 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.91 | 67.41 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 67.49 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 67.47 | 16.91 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.68 | 66.76 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.35 | 66.55 | 15.94 |      | 130.0 |         |
|           |                                                                 | Z | 4.57 | 66.75 | 16.22 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.73 | 66.75 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.59 | 15.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.77 | 16.24 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.81 | 67.47 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 67.56 | 16.75 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 67.52 | 16.86 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.63 | 66.52 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.28 | 66.26 | 15.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.51 | 66.49 | 16.01 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.76 | 66.76 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.50 | 66.82 | 16.39 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.82 | 16.56 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.79 | 66.92 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 67.04 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 67.00 | 16.63 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.02 | 67.24 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 67.28 | 16.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.91 | 67.29 | 16.80 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.91 | 67.41 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 67.49 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 67.47 | 16.91 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.68 | 66.76 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.35 | 66.55 | 15.94 |      | 130.0 |         |
|           |                                                                 | Z | 4.57 | 66.75 | 16.22 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.73 | 66.75 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.59 | 15.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 66.77 | 16.24 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.81 | 67.47 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.53 | 67.56 | 16.75 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 67.52 | 16.86 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.63 | 66.52 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.28 | 66.26 | 15.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.51 | 66.49 | 16.01 |      | 130.0 |         |