

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.35 | 66.71 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 66.33 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.70 | 16.37 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.39 | 66.95 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.56 | 16.19 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.91 | 16.46 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.53 | 67.16 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.78 | 16.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.62 | 67.14 | 16.60 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.45 | 67.33 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.92 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 67.28 | 16.71 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.18 | 66.40 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.14 | 66.03 | 15.63 |      | 130.0 |         |
|           |                                                                 | Z | 4.28 | 66.46 | 15.95 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.20 | 66.40 | 15.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.06 | 15.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.50 | 15.97 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.37 | 67.44 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 67.01 | 16.42 |      | 130.0 |         |
|           |                                                                 | Z | 4.44 | 67.38 | 16.70 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.10 | 66.14 | 15.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.06 | 65.79 | 15.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.20 | 66.22 | 15.73 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.35 | 66.71 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 66.33 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.70 | 16.37 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.39 | 66.95 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.56 | 16.19 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.91 | 16.46 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.53 | 67.16 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.78 | 16.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.62 | 67.14 | 16.60 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.45 | 67.33 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.92 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 67.28 | 16.71 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.18 | 66.40 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.14 | 66.03 | 15.63 |      | 130.0 |         |
|           |                                                                 | Z | 4.28 | 66.46 | 15.95 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.20 | 66.40 | 15.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.06 | 15.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.50 | 15.97 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.37 | 67.44 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 67.01 | 16.42 |      | 130.0 |         |
|           |                                                                 | Z | 4.44 | 67.38 | 16.70 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.10 | 66.14 | 15.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.06 | 65.79 | 15.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.20 | 66.22 | 15.73 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.52 | 66.84 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.46 | 66.46 | 16.24 |      | 130.0 |         |
|           |                                                       | Z | 4.59 | 66.79 | 16.49 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.62 | 67.09 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.57 | 66.73 | 16.36 |      | 130.0 |         |
|           |                                                       | Z | 4.70 | 67.07 | 16.61 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.54 | 66.96 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.48 | 66.59 | 16.20 |      | 130.0 |         |
|           |                                                       | Z | 4.62 | 66.95 | 16.47 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.59 | 67.15 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.54 | 66.78 | 16.38 |      | 130.0 |         |
|           |                                                       | Z | 4.68 | 67.13 | 16.64 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.55 | 67.13 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.50 | 66.75 | 16.29 |      | 130.0 |         |
|           |                                                       | Z | 4.64 | 67.11 | 16.55 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.48 | 67.05 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.43 | 66.69 | 16.26 |      | 130.0 |         |
|           |                                                       | Z | 4.57 | 67.07 | 16.54 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.43 | 66.92 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.38 | 66.55 | 16.10 |      | 130.0 |         |
|           |                                                       | Z | 4.52 | 66.94 | 16.39 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.44 | 67.20 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.38 | 66.80 | 16.39 |      | 130.0 |         |
|           |                                                       | Z | 4.52 | 67.17 | 16.66 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.20 | 67.24 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.18 | 67.00 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 5.27 | 67.24 | 16.74 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.26 | 67.48 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.28 | 67.39 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 5.36 | 67.57 | 16.88 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.22 | 67.44 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.19 | 67.20 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 5.27 | 67.38 | 16.80 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.25 | 67.28 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.26 | 67.13 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 67.37 | 16.71 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.31 | 67.54 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.31 | 67.39 | 16.83 |      | 130.0 |         |
|           |                                                       | Z | 5.42 | 67.67 | 17.00 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.18 | 67.09 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.17 | 66.89 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 5.30 | 67.26 | 16.77 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.25 | 67.33 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.25 | 67.17 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 67.43 | 16.86 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.07 | 66.89 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.06 | 66.68 | 16.29 |      | 130.0 |         |
|           |                                                       | Z | 5.15 | 66.91 | 16.45 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.37 | 66.21 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.31 | 65.78 | 15.88 |      | 130.0 |         |
|           |                                                   | Z | 4.44 | 66.16 | 16.15 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.48 | 66.49 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.43 | 66.08 | 16.01 |      | 130.0 |         |
|           |                                                   | Z | 4.57 | 66.48 | 16.29 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.38 | 66.32 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.33 | 65.90 | 15.82 |      | 130.0 |         |
|           |                                                   | Z | 4.47 | 66.31 | 16.11 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.44 | 66.50 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.38 | 66.09 | 16.00 |      | 130.0 |         |
|           |                                                   | Z | 4.52 | 66.48 | 16.28 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.35 | 66.27 | 16.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.29 | 65.86 | 15.83 |      | 130.0 |         |
|           |                                                   | Z | 4.43 | 66.28 | 16.13 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.32 | 66.35 | 16.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.27 | 65.96 | 15.85 |      | 130.0 |         |
|           |                                                   | Z | 4.42 | 66.40 | 16.16 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.32 | 66.16 | 15.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.27 | 65.77 | 15.69 |      | 130.0 |         |
|           |                                                   | Z | 4.42 | 66.21 | 16.00 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.31 | 66.45 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.25 | 66.02 | 15.97 |      | 130.0 |         |
|           |                                                   | Z | 4.39 | 66.45 | 16.26 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.33 | 66.09 | 15.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.28 | 65.68 | 15.58 |      | 130.0 |         |
|           |                                                   | Z | 4.43 | 66.11 | 15.90 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.00 | 66.41 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.96 | 66.09 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 5.08 | 66.43 | 16.32 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.02 | 66.47 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.20 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.54 | 16.35 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 4.94 | 66.56 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.90 | 66.23 | 16.17 |      | 130.0 |         |
|           |                                                   | Z | 5.03 | 66.61 | 16.40 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 4.98 | 66.45 | 16.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.95 | 66.17 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 5.05 | 66.46 | 16.26 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.02 | 66.37 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.00 | 66.10 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.43 | 16.29 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.05 | 66.54 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.01 | 66.21 | 16.27 |      | 130.0 |         |
|           |                                                   | Z | 5.12 | 66.55 | 16.47 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.03 | 66.60 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.30 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.63 | 16.51 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 4.93 | 66.19 | 16.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 4.89 | 65.86 | 15.94 |      | 130.0 |         |
|           |                                                    | Z | 5.01 | 66.20 | 16.16 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.12 | 66.43 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.08 | 66.13 | 16.15 |      | 130.0 |         |
|           |                                                    | Z | 5.20 | 66.46 | 16.35 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.22 | 66.64 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.19 | 66.35 | 16.33 |      | 130.0 |         |
|           |                                                    | Z | 5.28 | 66.57 | 16.47 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.35 | 66.41 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.11 | 16.07 |      | 130.0 |         |
|           |                                                    | Z | 5.41 | 66.44 | 16.27 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.55 | 66.98 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 66.80 | 16.40 |      | 130.0 |         |
|           |                                                    | Z | 5.63 | 67.04 | 16.54 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.33 | 66.36 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.29 | 66.07 | 15.96 |      | 130.0 |         |
|           |                                                    | Z | 5.40 | 66.42 | 16.16 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.45 | 66.63 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.44 | 66.42 | 16.13 |      | 130.0 |         |
|           |                                                    | Z | 5.51 | 66.62 | 16.26 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 5.58 | 67.21 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 67.16 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 5.72 | 67.46 | 16.68 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.60 | 67.42 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 67.20 | 16.72 |      | 130.0 |         |
|           |                                                    | Z | 5.70 | 67.52 | 16.90 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.58 | 67.27 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.58 | 67.08 | 16.68 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 67.24 | 16.78 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.35 | 66.43 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.13 | 16.03 |      | 130.0 |         |
|           |                                                    | Z | 5.43 | 66.50 | 16.23 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.39 | 66.68 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.35 | 66.35 | 16.19 |      | 130.0 |         |
|           |                                                    | Z | 5.46 | 66.70 | 16.38 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.23 | 65.85 | 15.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.20 | 65.57 | 15.51 |      | 130.0 |         |
|           |                                                    | Z | 5.31 | 65.95 | 15.74 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.79 | 66.75 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.48 | 16.18 |      | 130.0 |         |
|           |                                                    | Z | 5.85 | 66.79 | 16.35 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 5.87 | 66.98 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 66.78 | 16.32 |      | 130.0 |         |
|           |                                                    | Z | 5.96 | 67.08 | 16.48 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 5.93 | 67.13 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 66.89 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.99 | 67.17 | 16.50 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 5.87   | 66.97  | 16.39 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.84   | 66.71  | 16.30 |       | 130.0 |         |
|           |                                                        | Z | 5.94   | 67.03  | 16.47 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 5.80   | 66.76  | 16.23 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.78   | 66.52  | 16.15 |       | 130.0 |         |
|           |                                                        | Z | 5.89   | 66.90  | 16.36 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 5.92   | 66.91  | 16.32 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.92   | 66.73  | 16.28 |       | 130.0 |         |
|           |                                                        | Z | 6.00   | 67.00  | 16.43 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 5.94   | 67.12  | 16.60 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.91   | 66.86  | 16.51 |       | 130.0 |         |
|           |                                                        | Z | 6.02   | 67.19  | 16.68 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 5.78   | 66.77  | 16.31 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.76   | 66.54  | 16.24 |       | 130.0 |         |
|           |                                                        | Z | 5.87   | 66.88  | 16.43 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 5.83   | 66.93  | 16.41 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.81   | 66.68  | 16.33 |       | 130.0 |         |
|           |                                                        | Z | 5.92   | 67.05  | 16.53 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 5.96   | 67.02  | 16.42 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.95   | 66.81  | 16.36 |       | 130.0 |         |
|           |                                                        | Z | 6.04   | 67.10  | 16.52 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 5.44   | 86.39  | 29.87 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.81   | 87.60  | 30.48 |       | 60.0  |         |
|           |                                                        | Z | 8.19   | 97.49  | 34.99 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 4.80   | 83.95  | 29.04 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.16   | 85.32  | 29.73 |       | 60.0  |         |
|           |                                                        | Z | 6.96   | 93.94  | 33.85 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.46   | 61.39  | 7.82  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.37   | 60.00  | 5.96  |       | 150.0 |         |
|           |                                                        | Z | 0.50   | 61.65  | 8.29  |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.12   | 66.28  | 15.70 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.02   | 65.66  | 15.43 |       | 80.0  |         |
|           |                                                        | Z | 3.33   | 67.03  | 16.40 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.68   | 65.65  | 16.11 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.61   | 65.21  | 15.95 |       | 80.0  |         |
|           |                                                        | Z | 3.84   | 66.09  | 16.56 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.72   | 65.26  | 16.17 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.65   | 64.85  | 16.03 |       | 80.0  |         |
|           |                                                        | Z | 3.85   | 65.65  | 16.58 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 3.80   | 65.15  | 16.21 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.73   | 64.76  | 16.08 |       | 80.0  |         |
|           |                                                        | Z | 3.92   | 65.55  | 16.60 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 4.75   | 72.59  | 13.37 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 4.19   | 71.13  | 12.85 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 107.57 | 23.92 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 22.00  | 88.58  | 17.14 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 3.94   | 73.01  | 12.37 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 108.47 | 23.27 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 102.05 | 19.10 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 1.41   | 67.41  | 8.85  |      | 80.0  |         |
|           |                             | Z | 100.00 | 113.17 | 24.00 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 106.07 | 19.76 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.27   | 60.00  | 4.29  |      | 100.0 |         |
|           |                             | Z | 100.00 | 121.09 | 26.01 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 125.21 | 25.72 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 8.44   | 216.63 | 6.72  |      | 120.0 |         |
|           |                             | Z | 100.00 | 139.04 | 31.03 |      | 120.0 |         |

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



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Client **Huawei-SZ (Auden)**

Certificate No: **EX3-7381\_Sep18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7381**

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: **September 28, 2018**

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       | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name          | Function              | Signature                  |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------------|
| Calibrated by:                                                                                                  | Michael Weber | Laboratory Technician |                            |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |                            |
|                                                                                                                 |               |                       | Issued: September 29, 2018 |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |               |                       |                            |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- 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:7381

|               |                    |
|---------------|--------------------|
| Manufactured: | April 13, 2015     |
| Repaired:     | September 20, 2018 |
| Calibrated:   | September 28, 2018 |

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.64     | 0.53     | 0.36     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 95.1     | 93.1     | 95.0     |               |

### 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    | 182.9    | $\pm 3.0 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 190.3    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 176.1    |                           |

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 | 35.70    | 266.3    | 35.57                       | 9.330                               | 0.900                               | 5.00     | 0.100                 | 0.005                 | 1.020 |
| Y | 40.50    | 334.6    | 44.32                       | 5.164                               | 0.417                               | 5.10     | 0.100                 | 0.600                 | 1.014 |
| Z | 52.87    | 417.1    | 39.84                       | 7.817                               | 0.237                               | 5.10     | 0.291                 | 0.427                 | 1.011 |

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:7381

### 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                            | 10.66   | 10.66   | 10.66   | 0.40               | 0.92                    | ± 12.0 %  |
| 850                  | 41.5                               | 0.92                            | 10.30   | 10.30   | 10.30   | 0.34               | 0.98                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.79    | 8.79    | 8.79    | 0.38               | 0.84                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.32    | 8.32    | 8.32    | 0.34               | 0.87                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.15    | 8.15    | 8.15    | 0.34               | 0.85                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.95    | 7.95    | 7.95    | 0.35               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.61    | 7.61    | 7.61    | 0.25               | 1.18                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.35    | 7.35    | 7.35    | 0.29               | 1.15                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.67    | 5.67    | 5.67    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 5.04    | 5.04    | 5.04    | 0.40               | 1.80                    | ± 13.1 %  |
| 5800                 | 35.3                               | 5.27                            | 5.23    | 5.23    | 5.23    | 0.40               | 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:7381

### 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                            | 10.74   | 10.74   | 10.74   | 0.24               | 1.24                    | ± 12.0 %  |
| 850                  | 55.2                               | 0.99                            | 10.46   | 10.46   | 10.46   | 0.25               | 1.17                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.61    | 8.61    | 8.61    | 0.27               | 1.03                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.22    | 8.22    | 8.22    | 0.31               | 0.95                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 8.03    | 8.03    | 8.03    | 0.36               | 0.93                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.76    | 7.76    | 7.76    | 0.41               | 0.90                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.53    | 7.53    | 7.53    | 0.42               | 0.88                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.75    | 4.75    | 4.75    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.26    | 4.26    | 4.26    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.37    | 4.37    | 4.37    | 0.50               | 1.90                    | ± 13.1 %  |

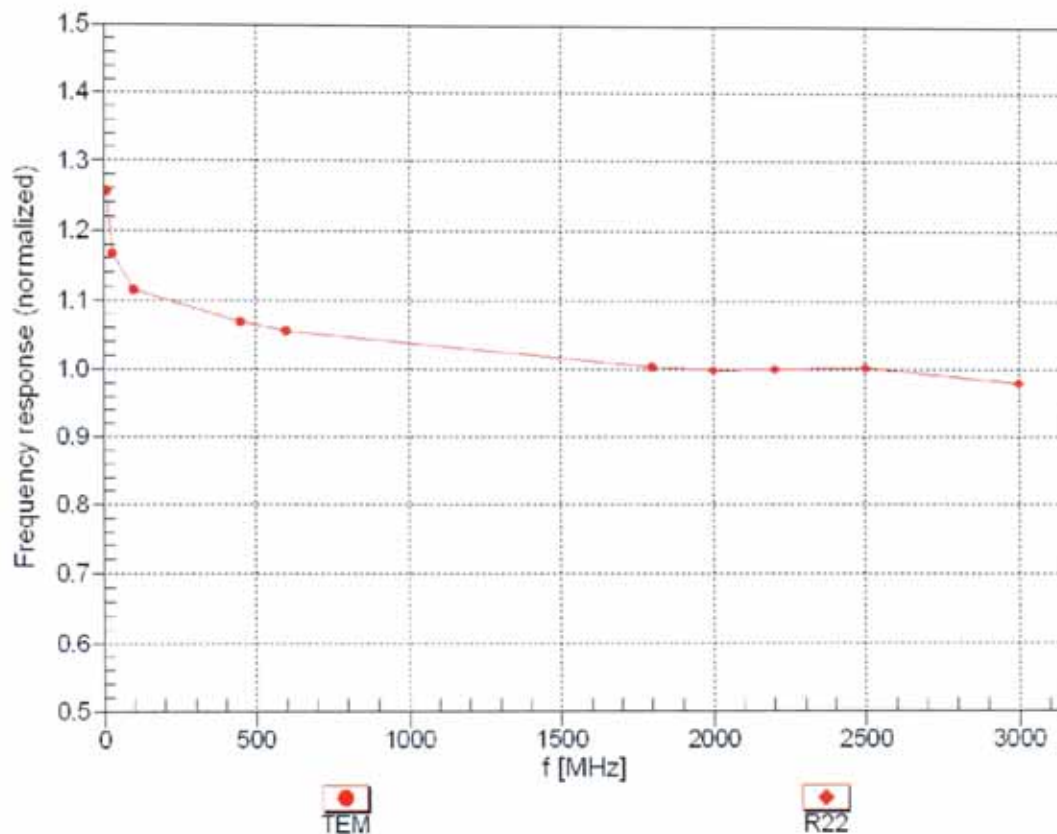
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 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

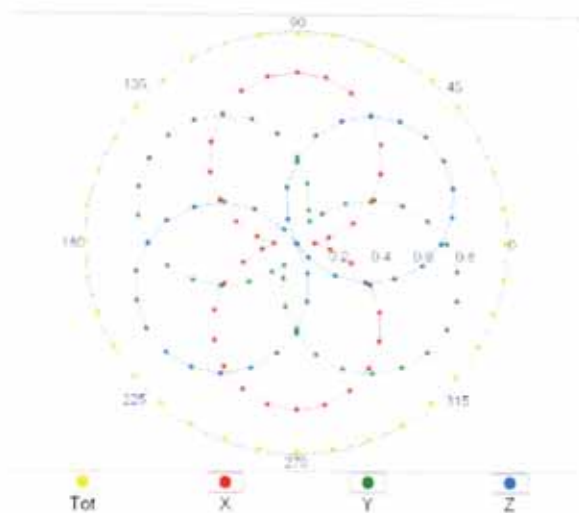
(TEM-Cell:ifi110 EXX, Waveguide: R22)



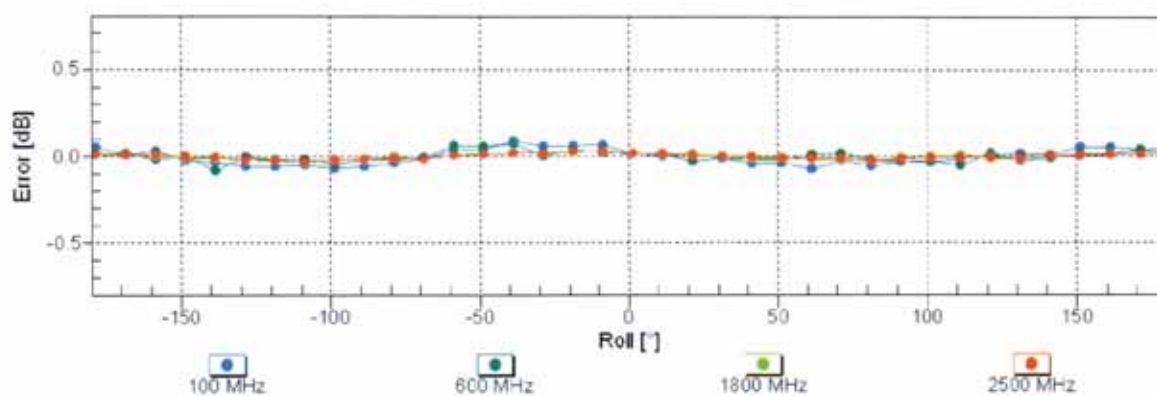
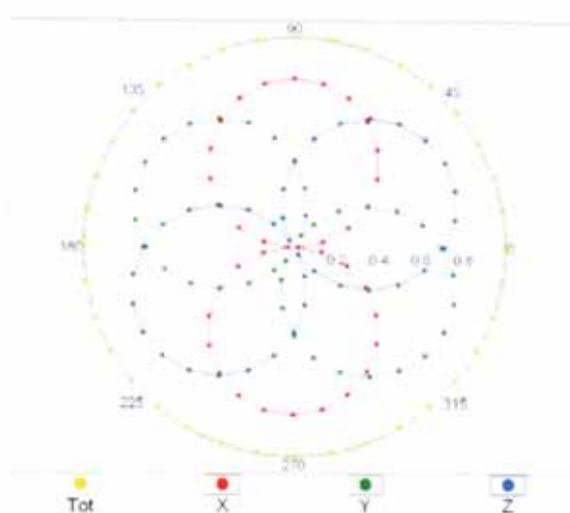
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz,TEM

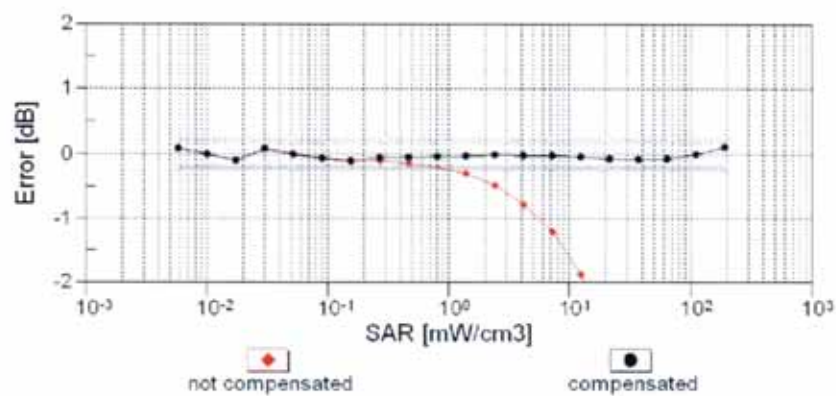
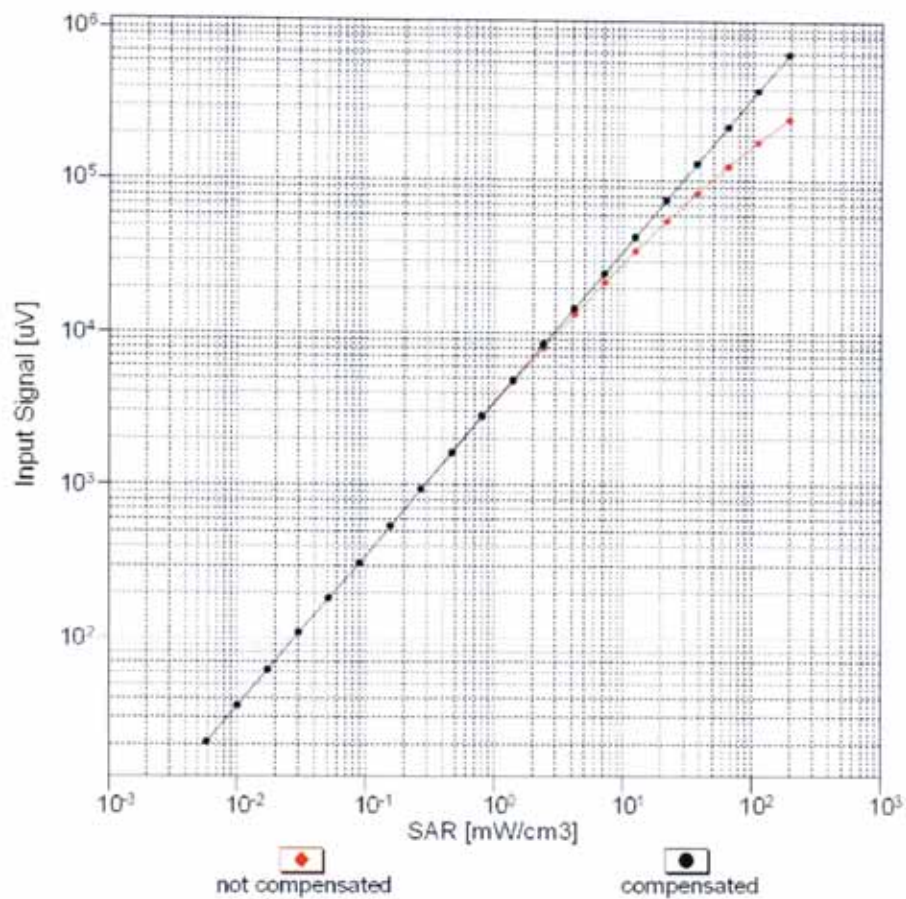


f=1800 MHz,R22



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

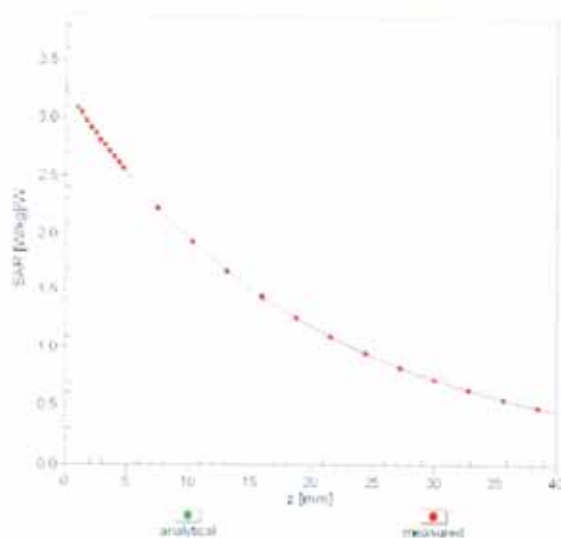
# Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$ )



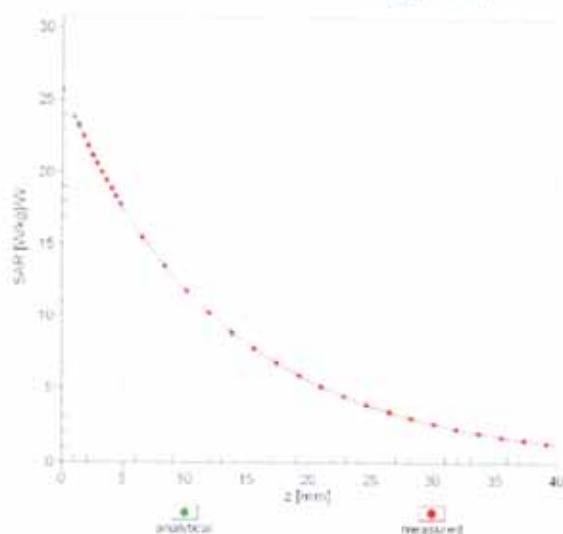
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment

$f = 850 \text{ MHz}$ , WGLS R9 (H\_convF)

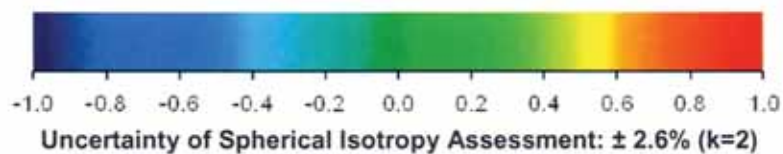
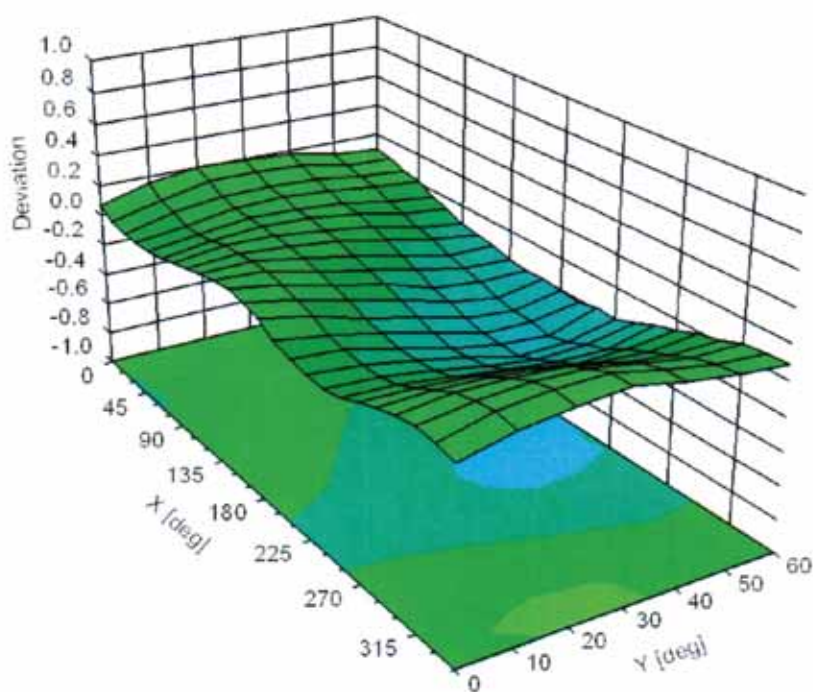


$f = 1750 \text{ MHz}$ , WGLS R22 (H\_convF)



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 131.3      |
| 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 $\mu$ V | 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    | 182.9    | $\pm 3.0 \%$                     |
|               |                                               | Y | 0.00    | 0.00            | 1.00   |         | 190.3    |                                  |
|               |                                               | Z | 0.00    | 0.00            | 1.00   |         | 176.1    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 11.00   | 70.00           | 30.00  | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.35    | 61.38           | 6.83   |         | 20.0     |                                  |
|               |                                               | Z | 1.92    | 65.21           | 9.46   |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.15    | 67.14           | 15.68  | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 216.99          | 69.51  |         | 150.0    |                                  |
|               |                                               | Z | 13.47   | 117.54          | 34.62  |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.32    | 63.81           | 15.29  | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 8.14    | 128.56          | 47.42  |         | 150.0    |                                  |
|               |                                               | Z | 1.30    | 68.66           | 19.76  |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.87    | 66.86           | 17.13  | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.04    | 69.28           | 20.04  |         | 150.0    |                                  |
|               |                                               | Z | 4.98    | 67.22           | 18.07  |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 118.25          | 30.34  | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.03          | 24.78  |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 115.56          | 27.47  |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 117.75          | 30.17  | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 109.01          | 24.39  |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 114.64          | 27.11  |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 120.69          | 30.13  | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 126.91          | 30.65  |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 125.28          | 30.48  |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 24.11   | 122.63          | 48.01  | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.60    | 78.41           | 33.03  |         | 50.0     |                                  |
|               |                                               | Z | 4.28    | 74.19           | 30.01  |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 9.91    | 93.59           | 33.79  | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 18.52   | 123.39          | 47.38  |         | 60.0     |                                  |
|               |                                               | Z | 9.47    | 98.14           | 37.01  |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 125.06          | 31.17  | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 479.59          | 170.55 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 147.30          | 38.75  |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 130.95          | 32.97  | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.12    | 60.00           | 30.00  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 195.98          | 57.32  |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 5.53    | 79.72           | 27.05  | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 6.59    | 94.20           | 36.35  |         | 80.0     |                                  |
|               |                                               | Z | 5.37    | 83.49           | 30.07  |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 120.91          | 29.62  | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 196.62          | 58.60  |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 130.24          | 32.03  |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 139.36          | 35.10  | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.07    | 60.00           | 30.00  |         | 100.0    |                                  |
|               |                                               | Z | 99.99   | 150.00          | 30.00  |         | 100.0    |                                  |

|           |                                                     |   |        |        |        |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|--------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 97.94  | 152.13 | 39.63  | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.06   | 60.00  | 30.00  |       | 100.0 |         |
|           |                                                     | Z | 0.05   | 60.00  | 30.00  |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 7.66   | 86.59  | 22.86  | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 149.72 | 43.17  |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 144.67 | 41.53  |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 2.79   | 75.44  | 17.50  | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 170.78 | 50.20  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 143.95 | 39.60  |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 2.09   | 72.81  | 16.27  | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 180.10 | 53.53  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 143.34 | 38.92  |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 9.07   | 89.46  | 23.88  | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 150.95 | 43.71  |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 145.42 | 41.88  |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 2.56   | 74.36  | 17.07  | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 172.04 | 50.66  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 144.18 | 39.64  |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 2.07   | 72.81  | 16.39  | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 183.38 | 54.93  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 144.60 | 39.47  |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.85   | 72.59  | 15.95  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 175.27 | 51.06  |       | 150.0 |         |
|           |                                                     | Z | 100.00 | 134.81 | 35.14  |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 117.39 | 29.00  | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 104.70 | 21.46  |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 112.98 | 25.44  |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.13   | 60.00  | 15.99  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 60.00  | 0.00   |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 128.20 | 45.27  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 28.69  | 95.37  | 25.31  | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 103.96 | 23.93  |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 108.81 | 26.14  |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 67.71  | 110.77 | 28.63  | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 106.44 | 23.68  |       | 40.0  |         |
|           |                                                     | Z | 260.43 | 123.05 | 28.63  |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 23.23  | 98.98  | 27.11  | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 126.19 | 33.96  |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 130.47 | 36.35  |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.23   | 74.26  | 23.86  | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.66   | 85.66  | 32.29  |       | 100.0 |         |
|           |                                                     | Z | 4.14   | 77.76  | 26.79  |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.34   | 64.54  | 15.70  | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 203.81 | 66.88  |       | 110.0 |         |
|           |                                                     | Z | 1.40   | 71.11  | 21.17  |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 2.40   | 81.52  | 22.07  | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 335.12 | 116.68 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 175.52 | 51.30  |       | 110.0 |         |

|           |                                                |   |        |        |       |      |       |         |
|-----------|------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 2.14   | 73.59  | 19.82 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 209.14 | 68.58 |      | 110.0 |         |
|           |                                                | Z | 100.00 | 164.99 | 49.53 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.67   | 66.83  | 16.58 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.94   | 69.77  | 19.74 |      | 100.0 |         |
|           |                                                | Z | 4.83   | 67.37  | 17.56 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.68   | 66.91  | 16.66 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97   | 69.94  | 19.88 |      | 100.0 |         |
|           |                                                | Z | 4.84   | 67.48  | 17.68 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.92   | 67.11  | 16.86 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.20   | 69.91  | 19.90 |      | 100.0 |         |
|           |                                                | Z | 5.15   | 67.73  | 17.88 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.80   | 66.96  | 16.93 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.05   | 69.80  | 20.06 |      | 100.0 |         |
|           |                                                | Z | 5.00   | 67.63  | 18.00 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.81   | 66.96  | 17.07 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.03   | 69.72  | 20.18 |      | 100.0 |         |
|           |                                                | Z | 5.01   | 67.62  | 18.17 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.11   | 67.25  | 17.56 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.28   | 69.64  | 20.42 |      | 100.0 |         |
|           |                                                | Z | 5.27   | 67.63  | 18.52 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.15   | 67.19  | 17.73 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.27   | 69.40  | 20.50 |      | 100.0 |         |
|           |                                                | Z | 5.32   | 67.71  | 18.76 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.22   | 67.25  | 17.93 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.32   | 69.35  | 20.65 |      | 100.0 |         |
|           |                                                | Z | 5.39   | 67.63  | 18.91 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.97   | 66.94  | 17.42 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.09   | 69.17  | 20.23 |      | 100.0 |         |
|           |                                                | Z | 5.06   | 67.25  | 18.35 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.93   | 67.18  | 17.61 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.09   | 69.69  | 20.59 |      | 100.0 |         |
|           |                                                | Z | 5.05   | 67.65  | 18.62 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.01   | 67.39  | 17.95 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.13   | 69.81  | 20.90 |      | 100.0 |         |
|           |                                                | Z | 5.08   | 67.74  | 18.93 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.03   | 67.37  | 18.12 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.08   | 69.54  | 20.94 |      | 100.0 |         |
|           |                                                | Z | 5.03   | 67.52  | 19.03 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.07   | 67.44  | 18.41 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.07   | 69.45  | 21.15 |      | 90.0  |         |
|           |                                                | Z | 5.05   | 67.62  | 19.36 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.12   | 67.36  | 18.60 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.05   | 69.03  | 21.16 |      | 90.0  |         |
|           |                                                | Z | 5.02   | 67.23  | 19.38 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.15   | 67.48  | 18.73 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.08   | 69.11  | 21.25 |      | 90.0  |         |
|           |                                                | Z | 5.04   | 67.26  | 19.46 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.98   | 67.39  | 13.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 268.60 | 86.44 |      | 150.0 |         |
|           |                                                     | Z | 100.00 | 140.60 | 36.25 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.96   | 61.09  | 6.58  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.08   | 145.72 | 12.60 |      | 80.0  |         |
|           |                                                     | Z | 2.70   | 64.54  | 4.89  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 120.61 | 30.11 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 127.43 | 30.91 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 125.37 | 30.55 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.96   | 68.20  | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 158.98 | 47.61 |      | 150.0 |         |
|           |                                                     | Z | 2.97   | 77.93  | 21.56 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.93   | 68.14  | 15.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 160.08 | 48.01 |      | 150.0 |         |
|           |                                                     | Z | 2.95   | 78.23  | 21.69 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 9.97   | 93.70  | 33.82 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 18.92  | 123.97 | 47.55 |      | 60.0  |         |
|           |                                                     | Z | 9.57   | 98.41  | 37.10 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.10   | 69.89  | 16.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 142.36 | 42.01 |      | 150.0 |         |
|           |                                                     | Z | 4.57   | 77.73  | 20.76 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.27   | 67.42  | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.41   | 81.04  | 24.37 |      | 150.0 |         |
|           |                                                     | Z | 3.67   | 70.29  | 18.08 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.37   | 67.42  | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.17   | 79.39  | 23.76 |      | 150.0 |         |
|           |                                                     | Z | 3.74   | 70.00  | 18.04 |      | 150.0 |         |
| 10103-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.34   | 75.72  | 20.70 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 11.34  | 93.43  | 29.74 |      | 65.0  |         |
|           |                                                     | Z | 6.86   | 79.59  | 23.23 |      | 65.0  |         |
| 10104-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 6.17   | 73.27  | 20.31 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.54   | 79.22  | 25.10 |      | 65.0  |         |
|           |                                                     | Z | 5.98   | 74.59  | 21.93 |      | 65.0  |         |
| 10105-CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 6.14   | 73.03  | 20.50 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.17   | 77.48  | 24.57 |      | 65.0  |         |
|           |                                                     | Z | 5.62   | 73.01  | 21.49 |      | 65.0  |         |
| 10108-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.70   | 69.19  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 147.33 | 43.88 |      | 150.0 |         |
|           |                                                     | Z | 4.03   | 77.32  | 20.88 |      | 150.0 |         |
| 10109-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.91   | 67.36  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 7.00   | 89.30  | 27.63 |      | 150.0 |         |
|           |                                                     | Z | 3.38   | 70.77  | 18.36 |      | 150.0 |         |
| 10110-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.20   | 68.47  | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 154.17 | 46.09 |      | 150.0 |         |
|           |                                                     | Z | 3.51   | 77.96  | 21.32 |      | 150.0 |         |
| 10111-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.63   | 68.40  | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 146.51 | 43.54 |      | 150.0 |         |
|           |                                                     | Z | 3.37   | 73.66  | 19.68 |      | 150.0 |         |

|           |                                                |   |        |        |       |      |       |         |
|-----------|------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10112-CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.04   | 67.42  | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 6.33   | 86.22  | 26.47 |      | 150.0 |         |
|           |                                                | Z | 3.47   | 70.42  | 18.24 |      | 150.0 |         |
| 10113-CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.77   | 68.55  | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 145.16 | 43.16 |      | 150.0 |         |
|           |                                                | Z | 3.48   | 73.29  | 19.55 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.13   | 67.26  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.49   | 70.06  | 19.49 |      | 150.0 |         |
|           |                                                | Z | 5.32   | 67.96  | 17.43 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.38   | 67.34  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.80   | 70.16  | 19.48 |      | 150.0 |         |
|           |                                                | Z | 5.63   | 68.08  | 17.48 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.21   | 67.45  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.64   | 70.43  | 19.57 |      | 150.0 |         |
|           |                                                | Z | 5.45   | 68.24  | 17.49 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.12   | 67.21  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.47   | 69.94  | 19.45 |      | 150.0 |         |
|           |                                                | Z | 5.28   | 67.79  | 17.36 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.45   | 67.52  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 6.03   | 70.88  | 19.83 |      | 150.0 |         |
|           |                                                | Z | 5.79   | 68.53  | 17.71 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.21   | 67.44  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.72   | 70.73  | 19.73 |      | 150.0 |         |
|           |                                                | Z | 5.43   | 68.21  | 17.49 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.39   | 67.46  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.27   | 79.54  | 23.68 |      | 150.0 |         |
|           |                                                | Z | 3.78   | 69.96  | 17.93 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.52   | 67.59  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20   | 78.65  | 23.40 |      | 150.0 |         |
|           |                                                | Z | 3.88   | 69.88  | 18.01 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.98   | 68.60  | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 156.00 | 46.00 |      | 150.0 |         |
|           |                                                | Z | 3.90   | 81.59  | 22.46 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.47   | 69.21  | 15.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 143.49 | 41.14 |      | 150.0 |         |
|           |                                                | Z | 3.95   | 77.99  | 20.86 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.20   | 66.71  | 13.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 137.29 | 38.21 |      | 150.0 |         |
|           |                                                | Z | 3.05   | 72.40  | 17.90 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.17   | 64.72  | 11.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 137.82 | 35.15 |      | 150.0 |         |
|           |                                                | Z | 14.17  | 100.72 | 25.63 |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 9.35   | 88.35  | 20.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 121.34 | 29.35 |      | 150.0 |         |
|           |                                                | Z | 100.00 | 120.70 | 29.90 |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 100.00 | 118.16 | 28.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 123.93 | 30.58 |      | 150.0 |         |
|           |                                                | Z | 100.00 | 122.09 | 30.61 |      | 150.0 |         |

|           |                                            |   |        |        |       |      |       |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.92   | 67.41  | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.11   | 89.66  | 27.79 |      | 150.0 |         |
|           |                                            | Z | 3.39   | 70.87  | 18.42 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.04   | 67.47  | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.40   | 86.49  | 26.60 |      | 150.0 |         |
|           |                                            | Z | 3.48   | 70.50  | 18.29 |      | 150.0 |         |
| 10151-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.38   | 77.45  | 21.42 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 30.78  | 118.12 | 37.83 |      | 65.0  |         |
|           |                                            | Z | 7.72   | 84.02  | 25.22 |      | 65.0  |         |
| 10152-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.68   | 73.18  | 19.88 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.90   | 82.70  | 26.24 |      | 65.0  |         |
|           |                                            | Z | 5.64   | 75.17  | 21.99 |      | 65.0  |         |
| 10153-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 6.05   | 74.13  | 20.62 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.36   | 83.86  | 27.11 |      | 65.0  |         |
|           |                                            | Z | 5.95   | 75.97  | 22.70 |      | 65.0  |         |
| 10154-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.23   | 68.75  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 154.70 | 46.35 |      | 150.0 |         |
|           |                                            | Z | 3.72   | 79.10  | 21.86 |      | 150.0 |         |
| 10155-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.64   | 68.43  | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 146.60 | 43.58 |      | 150.0 |         |
|           |                                            | Z | 3.37   | 73.67  | 19.69 |      | 150.0 |         |
| 10156-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.81   | 68.60  | 15.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 158.65 | 46.50 |      | 150.0 |         |
|           |                                            | Z | 4.86   | 86.74  | 24.11 |      | 150.0 |         |
| 10157-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.04   | 67.24  | 13.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 138.28 | 38.00 |      | 150.0 |         |
|           |                                            | Z | 3.49   | 76.44  | 19.40 |      | 150.0 |         |
| 10158-CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.78   | 68.62  | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 145.31 | 43.23 |      | 150.0 |         |
|           |                                            | Z | 3.50   | 73.41  | 19.62 |      | 150.0 |         |
| 10159-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.12   | 67.57  | 14.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 138.27 | 38.10 |      | 150.0 |         |
|           |                                            | Z | 3.75   | 77.32  | 19.82 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.75   | 68.61  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 145.25 | 43.24 |      | 150.0 |         |
|           |                                            | Z | 3.71   | 74.81  | 20.04 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.93   | 67.45  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.41   | 90.31  | 27.93 |      | 150.0 |         |
|           |                                            | Z | 3.39   | 70.63  | 18.34 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.04   | 67.65  | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.27   | 89.25  | 27.52 |      | 150.0 |         |
|           |                                            | Z | 3.49   | 70.61  | 18.35 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.25   | 68.78  | 19.90 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.76   | 85.66  | 29.21 |      | 150.0 |         |
|           |                                            | Z | 3.95   | 72.47  | 21.60 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 3.43   | 70.84  | 20.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 13.83  | 102.81 | 33.84 |      | 150.0 |         |
|           |                                            | Z | 5.17   | 76.77  | 22.54 |      | 150.0 |         |

|           |                                            |   |        |        |       |      |       |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 3.73   | 72.85  | 21.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 29.00  | 120.66 | 39.75 |      | 150.0 |         |
|           |                                            | Z | 6.02   | 80.26  | 24.36 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.39   | 65.72  | 18.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.79   | 85.18  | 29.52 |      | 150.0 |         |
|           |                                            | Z | 3.29   | 72.66  | 21.97 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 2.43   | 68.34  | 20.24 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 31.37  | 128.86 | 43.10 |      | 150.0 |         |
|           |                                            | Z | 5.45   | 83.37  | 26.16 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.19   | 66.35  | 18.30 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 11.64  | 103.05 | 34.00 |      | 150.0 |         |
|           |                                            | Z | 4.06   | 76.52  | 22.29 |      | 150.0 |         |
| 10172-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 4.72   | 83.25  | 27.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 168.92 | 55.74 |      | 65.0  |         |
|           |                                            | Z | 20.60  | 118.40 | 39.79 |      | 65.0  |         |
| 10173-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 6.53   | 90.17  | 28.92 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 154.09 | 48.32 |      | 65.0  |         |
|           |                                            | Z | 100.00 | 143.61 | 43.42 |      | 65.0  |         |
| 10174-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 6.38   | 89.02  | 27.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 150.07 | 46.22 |      | 65.0  |         |
|           |                                            | Z | 100.00 | 140.29 | 41.73 |      | 65.0  |         |
| 10175-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.38   | 65.57  | 18.50 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.68   | 84.38  | 29.06 |      | 150.0 |         |
|           |                                            | Z | 3.23   | 72.21  | 21.65 |      | 150.0 |         |
| 10176-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 2.43   | 68.36  | 20.25 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 31.64  | 129.04 | 43.15 |      | 150.0 |         |
|           |                                            | Z | 5.46   | 83.41  | 26.18 |      | 150.0 |         |
| 10177-CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.39   | 65.66  | 18.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.73   | 84.67  | 29.20 |      | 150.0 |         |
|           |                                            | Z | 3.27   | 72.44  | 21.78 |      | 150.0 |         |
| 10178-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 2.42   | 68.28  | 20.19 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 29.59  | 127.38 | 42.66 |      | 150.0 |         |
|           |                                            | Z | 5.36   | 82.95  | 25.97 |      | 150.0 |         |
| 10179-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 2.30   | 67.45  | 19.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 20.22  | 116.68 | 38.77 |      | 150.0 |         |
|           |                                            | Z | 4.72   | 79.90  | 24.13 |      | 150.0 |         |
| 10180-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 2.19   | 66.34  | 18.28 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 11.48  | 102.68 | 33.86 |      | 150.0 |         |
|           |                                            | Z | 4.04   | 76.38  | 22.21 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.39   | 65.64  | 18.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.72   | 84.64  | 29.19 |      | 150.0 |         |
|           |                                            | Z | 3.26   | 72.41  | 21.77 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 2.42   | 68.26  | 20.18 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 29.40  | 127.23 | 42.62 |      | 150.0 |         |
|           |                                            | Z | 5.34   | 82.91  | 25.95 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 2.19   | 66.32  | 18.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 11.41  | 102.56 | 33.82 |      | 150.0 |         |
|           |                                            | Z | 4.03   | 76.34  | 22.20 |      | 150.0 |         |

|           |                                               |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.39  | 65.67  | 18.57 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.75  | 84.73  | 29.22 |      | 150.0 |         |
|           |                                               | Z | 3.28  | 72.47  | 21.80 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 2.43  | 68.31  | 20.21 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 29.95 | 127.65 | 42.74 |      | 150.0 |         |
|           |                                               | Z | 5.38  | 83.03  | 26.00 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 2.19  | 66.37  | 18.30 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 11.59 | 102.87 | 33.93 |      | 150.0 |         |
|           |                                               | Z | 4.06  | 76.45  | 22.25 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.40  | 65.71  | 18.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.77  | 84.88  | 29.34 |      | 150.0 |         |
|           |                                               | Z | 3.28  | 72.52  | 21.86 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 2.46  | 68.61  | 20.45 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 36.87 | 132.92 | 44.31 |      | 150.0 |         |
|           |                                               | Z | 5.68  | 84.25  | 26.59 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 2.22  | 66.60  | 18.50 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 12.77 | 105.22 | 34.79 |      | 150.0 |         |
|           |                                               | Z | 4.20  | 77.17  | 22.65 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.54  | 66.91  | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88  | 70.16  | 19.56 |      | 150.0 |         |
|           |                                               | Z | 4.69  | 67.38  | 17.19 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.68  | 67.14  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.05  | 70.39  | 19.65 |      | 150.0 |         |
|           |                                               | Z | 4.88  | 67.73  | 17.31 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.71  | 67.16  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.08  | 70.37  | 19.63 |      | 150.0 |         |
|           |                                               | Z | 4.92  | 67.74  | 17.32 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.52  | 66.90  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88  | 70.24  | 19.59 |      | 150.0 |         |
|           |                                               | Z | 4.70  | 67.48  | 17.23 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.69  | 67.15  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.06  | 70.40  | 19.65 |      | 150.0 |         |
|           |                                               | Z | 4.89  | 67.75  | 17.33 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.71  | 67.16  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.08  | 70.40  | 19.65 |      | 150.0 |         |
|           |                                               | Z | 4.92  | 67.77  | 17.33 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.48  | 66.94  | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.87  | 70.47  | 19.67 |      | 150.0 |         |
|           |                                               | Z | 4.66  | 67.53  | 17.22 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.68  | 67.11  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.04  | 70.33  | 19.63 |      | 150.0 |         |
|           |                                               | Z | 4.89  | 67.72  | 17.32 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.72  | 67.10  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.07  | 70.22  | 19.58 |      | 150.0 |         |
|           |                                               | Z | 4.93  | 67.67  | 17.31 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.09  | 67.19  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.44  | 69.94  | 19.44 |      | 150.0 |         |
|           |                                               | Z | 5.25  | 67.80  | 17.36 |      | 150.0 |         |

|           |                                           |   |        |        |       |      |       |         |
|-----------|-------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.36   | 67.39  | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.79   | 70.24  | 19.55 |      | 150.0 |         |
|           |                                           | Z | 5.58   | 68.01  | 17.47 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.13   | 67.31  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.50   | 70.13  | 19.45 |      | 150.0 |         |
|           |                                           | Z | 5.31   | 67.93  | 17.35 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.82   | 66.39  | 15.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.39   | 83.22  | 25.04 |      | 150.0 |         |
|           |                                           | Z | 3.10   | 68.52  | 17.43 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 6.82   | 91.13  | 29.34 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 154.35 | 48.49 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 143.89 | 43.61 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 7.64   | 92.49  | 29.17 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 150.17 | 46.35 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 140.23 | 41.76 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 5.03   | 84.39  | 28.13 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 171.17 | 56.77 |      | 65.0  |         |
|           |                                           | Z | 36.11  | 132.10 | 43.75 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 6.57   | 90.27  | 28.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 154.02 | 48.30 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 143.56 | 43.42 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 7.22   | 91.34  | 28.71 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 150.07 | 46.27 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 140.03 | 41.62 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 4.90   | 83.79  | 27.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 170.98 | 56.64 |      | 65.0  |         |
|           |                                           | Z | 31.84  | 129.00 | 42.83 |      | 65.0  |         |
| 10232-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 6.56   | 90.24  | 28.95 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 154.06 | 48.32 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 143.59 | 43.42 |      | 65.0  |         |
| 10233-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 7.19   | 91.28  | 28.70 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 150.12 | 46.29 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 140.06 | 41.63 |      | 65.0  |         |
| 10234-CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 4.81   | 83.37  | 27.58 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 170.48 | 56.34 |      | 65.0  |         |
|           |                                           | Z | 29.21  | 126.68 | 42.05 |      | 65.0  |         |
| 10235-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 6.56   | 90.26  | 28.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 154.09 | 48.33 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 143.62 | 43.44 |      | 65.0  |         |
| 10236-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 7.30   | 91.54  | 28.78 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 149.96 | 46.22 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 139.96 | 41.59 |      | 65.0  |         |
| 10237-CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 4.89   | 83.82  | 27.85 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 171.08 | 56.68 |      | 65.0  |         |
|           |                                           | Z | 32.39  | 129.46 | 42.96 |      | 65.0  |         |
| 10238-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 6.54   | 90.21  | 28.94 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 154.11 | 48.34 |      | 65.0  |         |
|           |                                           | Z | 100.00 | 143.62 | 43.44 |      | 65.0  |         |

|           |                                            |   |        |        |       |      |      |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10239-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 7.16   | 91.22  | 28.68 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 150.18 | 46.31 |      | 65.0 |         |
|           |                                            | Z | 100.00 | 140.11 | 41.65 |      | 65.0 |         |
| 10240-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 4.89   | 83.79  | 27.85 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 171.14 | 56.70 |      | 65.0 |         |
|           |                                            | Z | 32.07  | 129.26 | 42.91 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 6.89   | 80.86  | 26.48 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 15.14  | 102.74 | 36.01 |      | 65.0 |         |
|           |                                            | Z | 7.96   | 83.07  | 27.57 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.80   | 80.72  | 26.37 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 14.33  | 101.02 | 35.18 |      | 65.0 |         |
|           |                                            | Z | 7.38   | 81.22  | 26.68 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.93   | 77.53  | 25.75 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.95   | 88.70  | 32.02 |      | 65.0 |         |
|           |                                            | Z | 5.71   | 76.44  | 25.56 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 6.09   | 77.33  | 19.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 128.91 | 35.76 |      | 65.0 |         |
|           |                                            | Z | 12.63  | 92.71  | 26.45 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 5.77   | 76.20  | 18.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 128.15 | 35.42 |      | 65.0 |         |
|           |                                            | Z | 11.34  | 90.40  | 25.59 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 4.45   | 74.40  | 17.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 136.14 | 38.09 |      | 65.0 |         |
|           |                                            | Z | 22.41  | 107.23 | 31.00 |      | 65.0 |         |
| 10247-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.56   | 71.86  | 17.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 73.33  | 128.51 | 37.19 |      | 65.0 |         |
|           |                                            | Z | 5.99   | 80.00  | 22.59 |      | 65.0 |         |
| 10248-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.51   | 71.27  | 16.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 26.38  | 109.01 | 31.99 |      | 65.0 |         |
|           |                                            | Z | 5.74   | 78.49  | 21.91 |      | 65.0 |         |
| 10249-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 5.66   | 78.41  | 20.44 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 142.87 | 42.05 |      | 65.0 |         |
|           |                                            | Z | 18.21  | 104.78 | 31.43 |      | 65.0 |         |
| 10250-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.61   | 74.95  | 20.41 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 13.54  | 100.79 | 32.79 |      | 65.0 |         |
|           |                                            | Z | 6.07   | 79.55  | 24.03 |      | 65.0 |         |
| 10251-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.38   | 73.15  | 19.26 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.77   | 89.12  | 28.04 |      | 65.0 |         |
|           |                                            | Z | 5.62   | 76.39  | 22.24 |      | 65.0 |         |
| 10252-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 6.27   | 79.36  | 22.01 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 147.00 | 45.24 |      | 65.0 |         |
|           |                                            | Z | 9.92   | 92.18  | 28.37 |      | 65.0 |         |
| 10253-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.61   | 72.83  | 19.63 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.66   | 81.73  | 25.73 |      | 65.0 |         |
|           |                                            | Z | 5.44   | 74.31  | 21.61 |      | 65.0 |         |
| 10254-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.93   | 73.65  | 20.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.09   | 82.86  | 26.51 |      | 65.0 |         |
|           |                                            | Z | 5.76   | 75.13  | 22.28 |      | 65.0 |         |

|           |                                             |   |        |        |       |      |      |         |
|-----------|---------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10255-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.13   | 76.89  | 21.33 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 22.24  | 111.88 | 36.31 |      | 65.0 |         |
|           |                                             | Z | 6.94   | 82.22  | 24.80 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.46   | 72.23  | 15.83 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 100.00 | 121.25 | 31.39 |      | 65.0 |         |
|           |                                             | Z | 11.37  | 89.76  | 24.19 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 4.16   | 70.86  | 15.07 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 100.00 | 119.86 | 30.76 |      | 65.0 |         |
|           |                                             | Z | 9.33   | 85.94  | 22.74 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 3.29   | 69.56  | 14.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 100.00 | 127.44 | 33.46 |      | 65.0 |         |
|           |                                             | Z | 15.22  | 98.84  | 27.43 |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 4.98   | 73.11  | 18.35 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 30.79  | 114.92 | 34.97 |      | 65.0 |         |
|           |                                             | Z | 6.02   | 79.75  | 23.07 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.00   | 72.84  | 18.22 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 21.82  | 107.57 | 32.81 |      | 65.0 |         |
|           |                                             | Z | 5.94   | 79.01  | 22.75 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 5.70   | 78.16  | 20.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 100.00 | 144.55 | 43.34 |      | 65.0 |         |
|           |                                             | Z | 11.30  | 95.48  | 28.98 |      | 65.0 |         |
| 10262-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.59   | 74.89  | 20.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 13.45  | 100.60 | 32.69 |      | 65.0 |         |
|           |                                             | Z | 6.07   | 79.51  | 23.99 |      | 65.0 |         |
| 10263-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.37   | 73.13  | 19.26 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.73   | 89.04  | 28.02 |      | 65.0 |         |
|           |                                             | Z | 5.61   | 76.36  | 22.23 |      | 65.0 |         |
| 10264-CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 6.22   | 79.19  | 21.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 100.00 | 146.87 | 45.17 |      | 65.0 |         |
|           |                                             | Z | 9.77   | 91.84  | 28.22 |      | 65.0 |         |
| 10265-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.68   | 73.18  | 19.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.90   | 82.70  | 26.25 |      | 65.0 |         |
|           |                                             | Z | 5.63   | 75.17  | 21.99 |      | 65.0 |         |
| 10266-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 6.04   | 74.11  | 20.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.35   | 83.84  | 27.09 |      | 65.0 |         |
|           |                                             | Z | 5.95   | 75.95  | 22.69 |      | 65.0 |         |
| 10267-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.37   | 77.41  | 21.40 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 30.19  | 117.69 | 37.71 |      | 65.0 |         |
|           |                                             | Z | 7.69   | 83.94  | 25.19 |      | 65.0 |         |
| 10268-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.34   | 73.27  | 20.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.53   | 78.38  | 24.77 |      | 65.0 |         |
|           |                                             | Z | 6.07   | 74.12  | 21.80 |      | 65.0 |         |
| 10269-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.35   | 72.95  | 20.28 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.35   | 77.23  | 24.28 |      | 65.0 |         |
|           |                                             | Z | 6.00   | 73.46  | 21.55 |      | 65.0 |         |
| 10270-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.38   | 75.20  | 20.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.50   | 89.19  | 28.55 |      | 65.0 |         |
|           |                                             | Z | 6.59   | 78.01  | 22.84 |      | 65.0 |         |

|           |                                                                    |   |        |        |        |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|--------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.67   | 67.00  | 15.36  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 10.84  | 98.97  | 30.38  |      | 150.0 |         |
|           |                                                                    | Z | 2.98   | 69.70  | 17.77  |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.70   | 67.97  | 15.87  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 167.59 | 50.63  |      | 150.0 |         |
|           |                                                                    | Z | 3.57   | 83.80  | 23.61  |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 2.97   | 63.64  | 8.94   | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.46   | 59.37  | 4.79   |      | 50.0  |         |
|           |                                                                    | Z | 1.77   | 61.03  | 6.66   |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 5.12   | 71.66  | 15.18  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.05   | 70.90  | 13.69  |      | 50.0  |         |
|           |                                                                    | Z | 39.09  | 105.24 | 26.82  |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 5.19   | 71.80  | 15.29  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.36   | 71.78  | 14.15  |      | 50.0  |         |
|           |                                                                    | Z | 38.18  | 104.98 | 26.85  |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.44   | 69.04  | 14.10  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 167.69 | 47.65  |      | 150.0 |         |
|           |                                                                    | Z | 100.00 | 132.24 | 33.89  |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.96   | 67.16  | 13.43  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 268.49 | 86.34  |      | 150.0 |         |
|           |                                                                    | Z | 100.00 | 140.46 | 36.17  |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.30   | 72.32  | 16.26  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 339.47 | 114.76 |      | 150.0 |         |
|           |                                                                    | Z | 100.00 | 148.22 | 39.44  |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.11   | 79.54  | 19.56  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 339.44 | 115.72 |      | 150.0 |         |
|           |                                                                    | Z | 100.00 | 153.47 | 41.91  |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 16.12  | 91.99  | 25.52  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 122.32 | 33.26  |      | 50.0  |         |
|           |                                                                    | Z | 39.98  | 116.52 | 34.87  |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.71   | 69.27  | 16.77  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 147.50 | 43.97  |      | 150.0 |         |
|           |                                                                    | Z | 4.07   | 77.55  | 20.99  |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.50   | 67.28  | 13.70  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 153.53 | 42.95  |      | 150.0 |         |
|           |                                                                    | Z | 9.87   | 97.83  | 26.35  |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 7.67   | 88.02  | 21.99  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 132.38 | 35.14  |      | 150.0 |         |
|           |                                                                    | Z | 70.95  | 120.54 | 31.58  |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.22   | 69.32  | 13.93  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 121.47 | 29.95  |      | 150.0 |         |
|           |                                                                    | Z | 4.30   | 76.94  | 17.78  |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.70   | 65.88  | 17.62  | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.31   | 70.07  | 20.92  |      | 50.0  |         |
|           |                                                                    | Z | 5.01   | 66.67  | 18.68  |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.22   | 66.65  | 18.43  | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.51   | 69.33  | 20.92  |      | 50.0  |         |
|           |                                                                    | Z | 5.36   | 66.61  | 19.00  |      | 50.0  |         |

|           |                                                                     |   |        |        |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.99   | 66.34  | 18.26 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.24   | 69.04  | 20.80 |       | 50.0  |         |
|           |                                                                     | Z | 5.09   | 66.24  | 18.85 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.78   | 66.12  | 17.70 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.17   | 69.49  | 20.64 |       | 50.0  |         |
|           |                                                                     | Z | 4.92   | 66.22  | 18.41 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.77   | 69.59  | 20.25 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.41   | 75.27  | 24.15 |       | 35.0  |         |
|           |                                                                     | Z | 4.44   | 68.01  | 20.57 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.91   | 67.94  | 19.68 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.18   | 71.41  | 22.58 |       | 35.0  |         |
|           |                                                                     | Z | 4.78   | 66.92  | 20.02 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.82   | 68.09  | 19.65 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.14   | 71.94  | 22.72 |       | 35.0  |         |
|           |                                                                     | Z | 4.68   | 67.17  | 20.04 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.82   | 68.38  | 19.84 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.19   | 72.52  | 23.06 |       | 35.0  |         |
|           |                                                                     | Z | 4.65   | 67.35  | 20.17 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.93   | 68.02  | 19.77 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.24   | 71.67  | 22.76 |       | 35.0  |         |
|           |                                                                     | Z | 4.85   | 67.23  | 20.21 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.88   | 68.05  | 19.70 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.17   | 71.72  | 22.69 |       | 35.0  |         |
|           |                                                                     | Z | 4.72   | 66.99  | 20.00 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.07   | 68.61  | 16.42 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 79.81  | 135.69 | 40.32 |       | 150.0 |         |
|           |                                                                     | Z | 4.40   | 75.62  | 20.03 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 4.61   | 77.72  | 19.35 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 134.35 | 35.76 |       | 70.0  |         |
|           |                                                                     | Z | 100.00 | 127.14 | 32.92 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 6.77   | 85.06  | 24.68 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 145.94 | 42.34 |       | 30.0  |         |
|           |                                                                     | Z | 100.00 | 139.62 | 39.85 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.23   | 63.78  | 15.26 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 48.91  | 185.97 | 63.30 |       | 150.0 |         |
|           |                                                                     | Z | 1.24   | 69.36  | 20.19 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.57   | 66.83  | 16.36 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.90   | 70.05  | 19.66 |       | 150.0 |         |
|           |                                                                     | Z | 4.74   | 67.44  | 17.35 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.57   | 66.83  | 16.36 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.90   | 70.05  | 19.66 |       | 150.0 |         |
|           |                                                                     | Z | 4.74   | 67.44  | 17.35 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.64   | 67.16  | 16.41 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.05   | 70.58  | 19.72 |       | 150.0 |         |
|           |                                                                     | Z | 4.88   | 67.82  | 17.32 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.31   | 67.01  | 16.43 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.74   | 69.83  | 19.29 |       | 150.0 |         |
|           |                                                                     | Z | 5.60   | 67.93  | 17.40 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.65   | 67.55  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.92   | 69.59  | 19.00 |      | 150.0 |         |
|           |                                                                                 | Z | 5.83   | 68.10  | 17.32 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 1.44   | 69.04  | 14.10 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 167.69 | 47.65 |      | 115.0 |         |
|           |                                                                                 | Z | 100.00 | 132.24 | 33.89 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 1.44   | 69.04  | 14.10 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 167.69 | 47.65 |      | 115.0 |         |
|           |                                                                                 | Z | 100.00 | 132.24 | 33.89 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 157.31 | 45.09 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 156.13 | 45.96 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 136.83 | 37.30 |      | 100.0 |         |
| 10410-AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 147.71 | 41.95 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 182.38 | 56.63 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 142.83 | 39.60 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.17   | 63.30  | 14.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 24.98  | 166.87 | 58.63 |      | 150.0 |         |
|           |                                                                                 | Z | 1.16   | 68.25  | 19.44 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.53   | 66.89  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.87   | 70.15  | 19.64 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 67.43  | 17.26 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.53   | 66.89  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.87   | 70.15  | 19.64 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 67.43  | 17.26 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.53   | 67.09  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.92   | 70.65  | 19.84 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 67.64  | 17.31 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.54   | 67.02  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.91   | 70.44  | 19.75 |      | 150.0 |         |
|           |                                                                                 | Z | 4.71   | 67.57  | 17.30 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.65   | 67.01  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.98   | 70.13  | 19.59 |      | 150.0 |         |
|           |                                                                                 | Z | 4.82   | 67.51  | 17.27 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.78   | 67.26  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.15   | 70.46  | 19.68 |      | 150.0 |         |
|           |                                                                                 | Z | 5.01   | 67.86  | 17.39 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.71   | 67.21  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.09   | 70.51  | 19.72 |      | 150.0 |         |
|           |                                                                                 | Z | 4.93   | 67.83  | 17.38 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.33   | 67.41  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.75   | 70.27  | 19.54 |      | 150.0 |         |
|           |                                                                                 | Z | 5.57   | 68.18  | 17.53 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.35   | 67.50  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.96   | 71.01  | 19.90 |      | 150.0 |         |
|           |                                                                                 | Z | 5.59   | 68.24  | 17.56 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.31   | 67.29  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.73   | 70.13  | 19.47 |      | 150.0 |         |
|           |                                                                | Z | 5.58   | 68.13  | 17.50 |      | 150.0 |         |
| 10430-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.19   | 71.23  | 18.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 16.02  | 102.21 | 31.95 |      | 150.0 |         |
|           |                                                                | Z | 4.91   | 74.11  | 20.54 |      | 150.0 |         |
| 10431-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.14   | 67.45  | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.98   | 73.42  | 20.89 |      | 150.0 |         |
|           |                                                                | Z | 4.46   | 68.44  | 17.52 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.47   | 67.30  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.99   | 71.46  | 20.12 |      | 150.0 |         |
|           |                                                                | Z | 4.72   | 68.03  | 17.43 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.72   | 67.24  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.11   | 70.54  | 19.74 |      | 150.0 |         |
|           |                                                                | Z | 4.94   | 67.87  | 17.40 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.26   | 72.03  | 17.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 86.61  | 134.15 | 39.78 |      | 150.0 |         |
|           |                                                                | Z | 5.32   | 75.97  | 20.91 |      | 150.0 |         |
| 10435-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 147.37 | 41.79 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 182.03 | 56.46 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 142.57 | 39.48 |      | 80.0  |         |
| 10447-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.39   | 67.36  | 15.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.31   | 81.96  | 23.56 |      | 150.0 |         |
|           |                                                                | Z | 3.88   | 69.36  | 17.36 |      | 150.0 |         |
| 10448-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.01   | 67.25  | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.84   | 73.40  | 20.90 |      | 150.0 |         |
|           |                                                                | Z | 4.29   | 68.25  | 17.41 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.31   | 67.12  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.84   | 71.52  | 20.19 |      | 150.0 |         |
|           |                                                                | Z | 4.52   | 67.91  | 17.37 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.52   | 67.03  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.91   | 70.51  | 19.74 |      | 150.0 |         |
|           |                                                                | Z | 4.70   | 67.68  | 17.30 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.21   | 67.28  | 14.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 9.18   | 88.88  | 25.28 |      | 150.0 |         |
|           |                                                                | Z | 3.88   | 70.03  | 17.20 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.25   | 67.96  | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.79   | 70.57  | 19.43 |      | 150.0 |         |
|           |                                                                | Z | 6.43   | 68.52  | 17.53 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.89   | 65.65  | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.04   | 68.61  | 19.47 |      | 150.0 |         |
|           |                                                                | Z | 3.89   | 66.00  | 17.02 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.78   | 70.72  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 100.00 | 135.03 | 39.05 |      | 150.0 |         |
|           |                                                                | Z | 4.92   | 75.32  | 20.38 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.84   | 68.36  | 17.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.74   | 77.14  | 23.30 |      | 150.0 |         |
|           |                                                                | Z | 5.46   | 69.90  | 19.56 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.02   | 67.53  | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 268.38 | 89.96 |      | 150.0 |         |
|           |                                                                   | Z | 100.00 | 165.50 | 47.42 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 30.29  | 128.32 | 38.39 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 227.54 | 75.96 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 156.67 | 45.76 |      | 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 | 132.43 | 34.11 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 189.47 | 58.20 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 128.13 | 32.45 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 125.96 | 31.09 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 181.08 | 54.22 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 120.08 | 28.81 |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 86.49  | 146.66 | 42.03 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 235.38 | 78.70 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 155.27 | 44.82 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 131.34 | 33.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 186.94 | 57.07 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.73 | 31.81 |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 124.72 | 30.55 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 176.97 | 52.47 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 118.66 | 28.18 |      | 80.0  |         |
| 10467-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 149.70 | 42.78 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 236.58 | 79.22 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 155.78 | 45.04 |      | 80.0  |         |
| 10468-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 131.79 | 33.80 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 188.21 | 57.62 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 127.23 | 32.03 |      | 80.0  |         |
| 10469-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 124.92 | 30.63 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 177.66 | 52.75 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 118.74 | 28.21 |      | 80.0  |         |
| 10470-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 149.81 | 42.82 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 237.48 | 79.57 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 155.98 | 45.11 |      | 80.0  |         |
| 10471-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 131.76 | 33.78 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 188.41 | 57.69 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 127.14 | 31.98 |      | 80.0  |         |
| 10472-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 124.86 | 30.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 177.88 | 52.83 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 118.64 | 28.16 |      | 80.0  |         |
| 10473-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 149.79 | 42.80 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 237.45 | 79.56 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 155.92 | 45.09 |      | 80.0  |         |
| 10474-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 131.79 | 33.79 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 188.70 | 57.80 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 127.19 | 32.00 |      | 80.0  |         |
| 10475-AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 124.90 | 30.61 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 178.11 | 52.92 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 118.68 | 28.17 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 131.48 | 33.65 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 188.07 | 57.51 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 126.79 | 31.81 |      | 80.0 |         |
| 10478-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 124.73 | 30.54 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 177.85 | 52.80 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 118.54 | 28.11 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 21.69  | 110.19 | 32.27 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 165.12 | 51.20 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 139.63 | 40.30 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 125.84 | 33.24 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 141.46 | 40.32 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 126.11 | 33.98 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 123.10 | 31.88 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 137.55 | 38.41 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 123.64 | 32.75 |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.17   | 67.58  | 14.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 149.15 | 42.74 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 131.37 | 35.78 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 10.85  | 87.56  | 21.98 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 133.92 | 37.04 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 125.29 | 33.83 |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.19   | 83.39  | 20.60 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 132.37 | 36.40 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 124.74 | 33.65 |      | 80.0 |         |
| 10485-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.64   | 69.84  | 16.61 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 154.16 | 46.03 |      | 80.0 |         |
|           |                                                                     | Z | 38.17  | 118.90 | 34.32 |      | 80.0 |         |
| 10486-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.67   | 66.93  | 14.51 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 135.10 | 38.01 |      | 80.0 |         |
|           |                                                                     | Z | 7.94   | 86.47  | 24.06 |      | 80.0 |         |
| 10487-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.67   | 66.60  | 14.31 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 133.67 | 37.44 |      | 80.0 |         |
|           |                                                                     | Z | 7.07   | 84.08  | 23.21 |      | 80.0 |         |
| 10488-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.05   | 69.91  | 17.60 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 150.55 | 45.87 |      | 80.0 |         |
|           |                                                                     | Z | 8.12   | 89.97  | 26.75 |      | 80.0 |         |
| 10489-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.21   | 67.77  | 16.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 141.09 | 42.34 |      | 80.0 |         |
|           |                                                                     | Z | 4.54   | 75.71  | 21.43 |      | 80.0 |         |
| 10490-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.29   | 67.69  | 16.41 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 139.78 | 41.89 |      | 80.0 |         |
|           |                                                                     | Z | 4.51   | 74.82  | 21.04 |      | 80.0 |         |
| 10491-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.40   | 69.16  | 17.47 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 144.25 | 43.91 |      | 80.0 |         |
|           |                                                                     | Z | 5.70   | 80.39  | 23.33 |      | 80.0 |         |
| 10492-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.60   | 67.37  | 16.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 11.08  | 94.67  | 30.08 |      | 80.0 |         |
|           |                                                                     | Z | 4.34   | 72.10  | 20.09 |      | 80.0 |         |

|           |                                                                      |   |        |        |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10493-AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.66   | 67.29  | 16.65 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 9.83   | 91.62  | 28.99 |      | 80.0 |         |
|           |                                                                      | Z | 4.36   | 71.66  | 19.89 |      | 80.0 |         |
| 10494-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.57   | 70.14  | 17.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 143.73 | 43.57 |      | 80.0 |         |
|           |                                                                      | Z | 7.48   | 85.35  | 24.92 |      | 80.0 |         |
| 10495-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.62   | 67.57  | 16.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 11.53  | 95.88  | 30.63 |      | 80.0 |         |
|           |                                                                      | Z | 4.46   | 72.87  | 20.46 |      | 80.0 |         |
| 10496-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.71   | 67.43  | 16.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 9.36   | 90.73  | 28.85 |      | 80.0 |         |
|           |                                                                      | Z | 4.43   | 72.03  | 20.10 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.56   | 63.60  | 11.39 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 137.64 | 36.75 |      | 80.0 |         |
|           |                                                                      | Z | 100.00 | 126.22 | 32.89 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.30   | 60.00  | 8.26  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 105.27 | 22.62 |      | 80.0 |         |
|           |                                                                      | Z | 8.37   | 83.55  | 19.67 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.32   | 60.00  | 8.09  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 102.17 | 21.24 |      | 80.0 |         |
|           |                                                                      | Z | 5.44   | 77.62  | 17.52 |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.80   | 69.82  | 16.99 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 151.96 | 45.66 |      | 80.0 |         |
|           |                                                                      | Z | 13.13  | 99.69  | 29.44 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.93   | 67.50  | 15.34 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 136.97 | 39.47 |      | 80.0 |         |
|           |                                                                      | Z | 5.76   | 80.70  | 22.57 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.97   | 67.38  | 15.21 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 135.40 | 38.81 |      | 80.0 |         |
|           |                                                                      | Z | 5.69   | 79.92  | 22.18 |      | 80.0 |         |
| 10503-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.03   | 69.77  | 17.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 150.48 | 45.82 |      | 80.0 |         |
|           |                                                                      | Z | 7.88   | 89.44  | 26.56 |      | 80.0 |         |
| 10504-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.20   | 67.70  | 16.40 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 140.97 | 42.28 |      | 80.0 |         |
|           |                                                                      | Z | 4.51   | 75.56  | 21.35 |      | 80.0 |         |
| 10505-AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.28   | 67.62  | 16.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 139.68 | 41.83 |      | 80.0 |         |
|           |                                                                      | Z | 4.47   | 74.67  | 20.96 |      | 80.0 |         |
| 10506-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.55   | 70.05  | 17.76 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 143.63 | 43.52 |      | 80.0 |         |
|           |                                                                      | Z | 7.35   | 85.02  | 24.79 |      | 80.0 |         |
| 10507-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.60   | 67.52  | 16.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 11.40  | 95.64  | 30.54 |      | 80.0 |         |
|           |                                                                      | Z | 4.44   | 72.79  | 20.41 |      | 80.0 |         |

|           |                                                                     |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10508-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.70   | 67.38  | 16.80 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 9.23   | 90.42  | 28.73 |      | 80.0  |         |
|           |                                                                     | Z | 4.41   | 71.94  | 20.05 |      | 80.0  |         |
| 10509-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.01   | 69.47  | 17.53 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 53.57  | 125.53 | 38.61 |      | 80.0  |         |
|           |                                                                     | Z | 6.08   | 78.49  | 22.24 |      | 80.0  |         |
| 10510-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.10   | 67.43  | 16.97 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.91   | 81.81  | 25.51 |      | 80.0  |         |
|           |                                                                     | Z | 4.71   | 71.13  | 19.66 |      | 80.0  |         |
| 10511-AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.18   | 67.30  | 16.94 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.46   | 79.80  | 24.71 |      | 80.0  |         |
|           |                                                                     | Z | 4.68   | 70.51  | 19.41 |      | 80.0  |         |
| 10512-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.04   | 70.41  | 17.82 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 138.39 | 41.56 |      | 80.0  |         |
|           |                                                                     | Z | 7.77   | 83.71  | 24.02 |      | 80.0  |         |
| 10513-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.98   | 67.51  | 17.01 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 7.39   | 84.17  | 26.51 |      | 80.0  |         |
|           |                                                                     | Z | 4.68   | 71.90  | 20.02 |      | 80.0  |         |
| 10514-AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.03   | 67.25  | 16.94 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.57   | 81.06  | 25.32 |      | 80.0  |         |
|           |                                                                     | Z | 4.59   | 70.95  | 19.65 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.13   | 63.45  | 14.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 212.37 | 69.78 |      | 150.0 |         |
|           |                                                                     | Z | 1.15   | 69.27  | 20.00 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.71   | 67.89  | 16.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 99.96  | 250.00 | 60.00 |      | 150.0 |         |
|           |                                                                     | Z | 100.00 | 203.45 | 60.50 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.97   | 64.91  | 15.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 250.98 | 84.10 |      | 150.0 |         |
|           |                                                                     | Z | 1.77   | 85.15  | 26.99 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.52   | 66.99  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.90   | 70.44  | 19.72 |      | 150.0 |         |
|           |                                                                     | Z | 4.69   | 67.55  | 17.26 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.67   | 67.16  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.05   | 70.50  | 19.72 |      | 150.0 |         |
|           |                                                                     | Z | 4.89   | 67.78  | 17.36 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.52   | 67.09  | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.95   | 70.74  | 19.82 |      | 150.0 |         |
|           |                                                                     | Z | 4.75   | 67.81  | 17.33 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.46   | 67.05  | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.89   | 70.83  | 19.88 |      | 150.0 |         |
|           |                                                                     | Z | 4.69   | 67.84  | 17.34 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.51   | 67.16  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.97   | 71.03  | 20.00 |      | 150.0 |         |
|           |                                                                     | Z | 4.74   | 67.90  | 17.41 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.44 | 67.18 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.91 | 71.14 | 19.99 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 67.80 | 17.28 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.46 | 67.13 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.91 | 71.02 | 20.02 |      | 150.0 |         |
|           |                                                            | Z | 4.69 | 67.84 | 17.39 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.49 | 66.26 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.95 | 69.92 | 19.51 |      | 150.0 |         |
|           |                                                            | Z | 4.68 | 66.85 | 16.96 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.61 | 66.52 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.13 | 70.34 | 19.66 |      | 150.0 |         |
|           |                                                            | Z | 4.87 | 67.27 | 17.11 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.54 | 66.49 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.09 | 70.47 | 19.70 |      | 150.0 |         |
|           |                                                            | Z | 4.79 | 67.26 | 17.08 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.56 | 66.51 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.09 | 70.44 | 19.71 |      | 150.0 |         |
|           |                                                            | Z | 4.81 | 67.28 | 17.11 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.56 | 66.51 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.09 | 70.44 | 19.71 |      | 150.0 |         |
|           |                                                            | Z | 4.81 | 67.28 | 17.11 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.52 | 66.52 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 70.68 | 19.80 |      | 150.0 |         |
|           |                                                            | Z | 4.81 | 67.45 | 17.16 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.40 | 66.39 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.98 | 70.66 | 19.82 |      | 150.0 |         |
|           |                                                            | Z | 4.67 | 67.33 | 17.11 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.56 | 66.59 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.13 | 70.66 | 19.77 |      | 150.0 |         |
|           |                                                            | Z | 4.82 | 67.33 | 17.10 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.12 | 66.52 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.53 | 69.34 | 19.09 |      | 150.0 |         |
|           |                                                            | Z | 5.33 | 67.19 | 17.03 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.16 | 66.64 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.65 | 69.76 | 19.28 |      | 150.0 |         |
|           |                                                            | Z | 5.42 | 67.43 | 17.13 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.05 | 66.64 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.54 | 69.84 | 19.32 |      | 150.0 |         |
|           |                                                            | Z | 5.28 | 67.38 | 17.10 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.11 | 66.64 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.61 | 69.80 | 19.29 |      | 150.0 |         |
|           |                                                            | Z | 5.34 | 67.34 | 17.08 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.18 | 66.60 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.64 | 69.56 | 19.20 |      | 150.0 |         |
|           |                                                            | Z | 5.42 | 67.32 | 17.10 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.11 | 66.56 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.52 | 69.41 | 19.17 |      | 150.0 |         |
|           |                                                            | Z | 5.36 | 67.39 | 17.16 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.10 | 66.48 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.45 | 69.13 | 19.01 |      | 150.0 |         |
|           |                                                    | Z | 5.31 | 67.18 | 17.05 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.25 | 66.58 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 69.21 | 19.03 |      | 150.0 |         |
|           |                                                    | Z | 5.47 | 67.22 | 17.07 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.32 | 66.66 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.73 | 69.34 | 19.11 |      | 150.0 |         |
|           |                                                    | Z | 5.56 | 67.29 | 17.12 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.47 | 66.61 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 68.80 | 18.70 |      | 150.0 |         |
|           |                                                    | Z | 5.62 | 67.17 | 16.94 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.64 | 67.03 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.22 | 70.04 | 19.24 |      | 150.0 |         |
|           |                                                    | Z | 5.88 | 67.78 | 17.18 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.50 | 66.73 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 69.11 | 18.81 |      | 150.0 |         |
|           |                                                    | Z | 5.72 | 67.47 | 17.05 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.58 | 66.84 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.07 | 69.60 | 19.03 |      | 150.0 |         |
|           |                                                    | Z | 5.80 | 67.54 | 17.07 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.71 | 67.41 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.85 | 72.09 | 20.16 |      | 150.0 |         |
|           |                                                    | Z | 6.31 | 69.26 | 17.88 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.56 | 66.91 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.17 | 70.09 | 19.30 |      | 150.0 |         |
|           |                                                    | Z | 5.75 | 67.51 | 17.07 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.49 | 66.70 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 69.09 | 18.78 |      | 150.0 |         |
|           |                                                    | Z | 5.73 | 67.47 | 17.01 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.48 | 66.73 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.80 | 68.94 | 18.71 |      | 150.0 |         |
|           |                                                    | Z | 5.63 | 67.23 | 16.91 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.53 | 66.68 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 68.77 | 18.64 |      | 150.0 |         |
|           |                                                    | Z | 5.71 | 67.24 | 16.94 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.89 | 66.95 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.24 | 68.99 | 18.62 |      | 150.0 |         |
|           |                                                    | Z | 6.04 | 67.51 | 16.99 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.98 | 67.17 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.47 | 69.63 | 18.91 |      | 150.0 |         |
|           |                                                    | Z | 6.21 | 67.92 | 17.16 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.02 | 67.28 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.51 | 69.75 | 18.95 |      | 150.0 |         |
|           |                                                    | Z | 6.22 | 67.93 | 17.16 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.97 | 67.15 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.36 | 69.28 | 18.75 |      | 150.0 |         |
|           |                                                    | Z | 6.18 | 67.81 | 17.12 |      | 150.0 |         |

|           |                                                                 |   |        |        |        |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|--------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.98   | 67.21  | 16.40  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.39   | 69.41  | 18.83  |      | 150.0 |         |
|           |                                                                 | Z | 6.24   | 68.02  | 17.24  |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.00   | 67.14  | 16.40  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.37   | 69.22  | 18.77  |      | 150.0 |         |
|           |                                                                 | Z | 6.21   | 67.77  | 17.16  |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.94   | 67.12  | 16.43  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.34   | 69.36  | 18.89  |      | 150.0 |         |
|           |                                                                 | Z | 6.14   | 67.80  | 17.21  |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 5.98   | 67.28  | 16.51  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.39   | 69.51  | 18.95  |      | 150.0 |         |
|           |                                                                 | Z | 6.32   | 68.34  | 17.48  |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.09   | 67.26  | 16.46  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 7.38   | 71.96  | 20.06  |      | 150.0 |         |
|           |                                                                 | Z | 6.72   | 69.10  | 17.80  |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.84   | 67.04  | 16.50  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.12   | 69.74  | 19.39  |      | 150.0 |         |
|           |                                                                 | Z | 5.00   | 67.48  | 17.32  |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.03   | 67.42  | 16.79  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.34   | 70.19  | 19.69  |      | 150.0 |         |
|           |                                                                 | Z | 5.25   | 67.95  | 17.64  |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.87   | 67.24  | 16.60  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.20   | 70.18  | 19.61  |      | 150.0 |         |
|           |                                                                 | Z | 5.09   | 67.84  | 17.49  |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.90   | 67.58  | 16.94  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.28   | 70.87  | 20.16  |      | 150.0 |         |
|           |                                                                 | Z | 5.13   | 68.31  | 17.89  |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.77   | 67.00  | 16.37  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.10   | 69.94  | 19.37  |      | 150.0 |         |
|           |                                                                 | Z | 4.99   | 67.60  | 17.25  |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.88   | 67.78  | 17.05  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.31   | 71.34  | 20.44  |      | 150.0 |         |
|           |                                                                 | Z | 5.08   | 68.42  | 17.97  |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.89   | 67.60  | 16.97  | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.28   | 70.91  | 20.21  |      | 150.0 |         |
|           |                                                                 | Z | 5.11   | 68.22  | 17.87  |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.29   | 64.06  | 15.41  | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 39.01  | 176.86 | 60.78  |      | 130.0 |         |
|           |                                                                 | Z | 1.31   | 69.79  | 20.44  |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.30   | 64.47  | 15.68  | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 206.48 | 67.90  |      | 130.0 |         |
|           |                                                                 | Z | 1.37   | 71.27  | 21.27  |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 1.13   | 72.95  | 19.31  | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 531.14 | 193.89 |      | 130.0 |         |
|           |                                                                 | Z | 100.00 | 192.03 | 57.17  |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.29   | 68.03  | 17.69  | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 237.32 | 79.79  |      | 130.0 |         |
|           |                                                                 | Z | 4.23   | 102.32 | 34.00  |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.61 | 66.75 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 69.69 | 19.60 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 67.29 | 17.42 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.64 | 66.95 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95 | 70.06 | 19.77 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 67.49 | 17.50 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.80 | 67.16 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.13 | 70.24 | 19.85 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 67.79 | 17.66 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.70 | 67.28 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09 | 70.76 | 20.18 |      | 130.0 |         |
|           |                                                                 | Z | 4.93 | 68.04 | 17.82 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.47 | 66.55 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 69.67 | 19.29 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.27 | 17.10 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.50 | 66.61 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 69.78 | 19.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.73 | 67.29 | 17.11 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.62 | 67.36 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.05 | 71.16 | 20.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.84 | 68.14 | 17.81 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.40 | 66.35 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.70 | 69.39 | 19.04 |      | 130.0 |         |
|           |                                                                 | Z | 4.63 | 67.01 | 16.87 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.61 | 66.75 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 69.69 | 19.60 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 67.29 | 17.42 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.64 | 66.95 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95 | 70.06 | 19.77 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 67.49 | 17.50 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.80 | 67.16 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.13 | 70.24 | 19.85 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 67.79 | 17.66 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.70 | 67.28 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09 | 70.76 | 20.18 |      | 130.0 |         |
|           |                                                                 | Z | 4.93 | 68.04 | 17.82 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.47 | 66.55 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 69.67 | 19.29 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.27 | 17.10 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.50 | 66.61 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 69.78 | 19.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.73 | 67.29 | 17.11 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.62 | 67.36 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.05 | 71.16 | 20.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.84 | 68.14 | 17.81 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.40 | 66.35 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.70 | 69.39 | 19.04 |      | 130.0 |         |
|           |                                                                 | Z | 4.63 | 67.01 | 16.87 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.77 | 66.84 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.01 | 69.51 | 19.56 |      | 130.0 |         |
|           |                                                       | Z | 4.92 | 67.30 | 17.48 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.89 | 67.12 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.17 | 69.92 | 19.71 |      | 130.0 |         |
|           |                                                       | Z | 5.09 | 67.67 | 17.62 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.81 | 67.00 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.10 | 69.86 | 19.61 |      | 130.0 |         |
|           |                                                       | Z | 5.02 | 67.60 | 17.51 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.86 | 67.16 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.16 | 70.08 | 19.80 |      | 130.0 |         |
|           |                                                       | Z | 5.07 | 67.77 | 17.67 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.83 | 67.15 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.15 | 70.14 | 19.75 |      | 130.0 |         |
|           |                                                       | Z | 5.04 | 67.74 | 17.58 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.76 | 67.11 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.09 | 70.21 | 19.81 |      | 130.0 |         |
|           |                                                       | Z | 4.98 | 67.77 | 17.60 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.71 | 66.99 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.04 | 70.07 | 19.66 |      | 130.0 |         |
|           |                                                       | Z | 4.93 | 67.68 | 17.49 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.70 | 67.18 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.05 | 70.51 | 20.07 |      | 130.0 |         |
|           |                                                       | Z | 4.92 | 67.97 | 17.79 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.45 | 67.31 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.92 | 70.28 | 19.80 |      | 130.0 |         |
|           |                                                       | Z | 5.63 | 67.84 | 17.64 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.54 | 67.64 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 6.41 | 71.93 | 20.55 |      | 130.0 |         |
|           |                                                       | Z | 5.89 | 68.70 | 18.04 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.45 | 67.44 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.92 | 70.44 | 19.87 |      | 130.0 |         |
|           |                                                       | Z | 5.71 | 68.21 | 17.81 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.54 | 67.48 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 6.08 | 70.62 | 19.84 |      | 130.0 |         |
|           |                                                       | Z | 5.80 | 68.19 | 17.71 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.61 | 67.75 | 17.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 6.25 | 71.29 | 20.32 |      | 130.0 |         |
|           |                                                       | Z | 5.86 | 68.45 | 17.97 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.49 | 67.39 | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 6.11 | 70.89 | 20.12 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.77 | 17.62 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.54 | 67.52 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 6.18 | 71.09 | 20.21 |      | 130.0 |         |
|           |                                                       | Z | 5.81 | 68.36 | 17.92 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.33 | 67.01 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.76 | 69.87 | 19.47 |      | 130.0 |         |
|           |                                                       | Z | 5.50 | 67.51 | 17.36 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.61 | 66.18 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 69.45 | 19.52 |      | 130.0 |         |
|           |                                                   | Z | 4.80 | 66.76 | 17.19 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.75 | 66.49 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.19 | 69.93 | 19.71 |      | 130.0 |         |
|           |                                                   | Z | 5.00 | 67.21 | 17.36 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.65 | 66.34 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.10 | 69.85 | 19.59 |      | 130.0 |         |
|           |                                                   | Z | 4.89 | 67.08 | 17.22 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.69 | 66.48 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.16 | 70.05 | 19.78 |      | 130.0 |         |
|           |                                                   | Z | 4.95 | 67.26 | 17.39 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.61 | 66.29 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.06 | 69.84 | 19.63 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 67.06 | 17.24 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.60 | 66.41 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.10 | 70.22 | 19.79 |      | 130.0 |         |
|           |                                                   | Z | 4.88 | 67.27 | 17.31 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.60 | 66.25 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.06 | 69.85 | 19.53 |      | 130.0 |         |
|           |                                                   | Z | 4.88 | 67.13 | 17.18 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.56 | 66.43 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.06 | 70.34 | 19.95 |      | 130.0 |         |
|           |                                                   | Z | 4.83 | 67.37 | 17.45 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.61 | 66.17 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.04 | 69.57 | 19.32 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.85 | 16.99 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.25 | 66.49 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.64 | 69.19 | 19.26 |      | 130.0 |         |
|           |                                                   | Z | 5.47 | 67.18 | 17.30 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.29 | 66.60 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.83 | 69.82 | 19.54 |      | 130.0 |         |
|           |                                                   | Z | 5.57 | 67.45 | 17.40 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.20 | 66.66 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.70 | 69.84 | 19.59 |      | 130.0 |         |
|           |                                                   | Z | 5.44 | 67.45 | 17.43 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.23 | 66.52 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.73 | 69.64 | 19.40 |      | 130.0 |         |
|           |                                                   | Z | 5.46 | 67.24 | 17.25 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.29 | 66.51 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.75 | 69.42 | 19.33 |      | 130.0 |         |
|           |                                                   | Z | 5.55 | 67.25 | 17.30 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.30 | 66.59 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.69 | 69.32 | 19.43 |      | 130.0 |         |
|           |                                                   | Z | 5.53 | 67.33 | 17.46 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.29 | 66.68 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.69 | 69.47 | 19.50 |      | 130.0 |         |
|           |                                                   | Z | 5.59 | 67.66 | 17.62 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.18 | 66.28 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.50 | 68.71 | 18.98 |      | 130.0 |         |
|           |                                                    | Z | 5.42 | 67.02 | 17.18 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.38 | 66.52 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.76 | 69.09 | 19.20 |      | 130.0 |         |
|           |                                                    | Z | 5.62 | 67.23 | 17.34 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.46 | 66.64 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.89 | 69.35 | 19.38 |      | 130.0 |         |
|           |                                                    | Z | 6.16 | 68.72 | 18.11 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.59 | 66.53 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 68.67 | 18.87 |      | 130.0 |         |
|           |                                                    | Z | 5.75 | 67.11 | 17.17 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.80 | 67.11 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.49 | 70.42 | 19.67 |      | 130.0 |         |
|           |                                                    | Z | 6.08 | 67.95 | 17.53 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.58 | 66.53 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 68.81 | 18.83 |      | 130.0 |         |
|           |                                                    | Z | 5.81 | 67.30 | 17.16 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.68 | 66.71 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.19 | 69.43 | 19.12 |      | 130.0 |         |
|           |                                                    | Z | 5.91 | 67.42 | 17.20 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 5.90 | 67.55 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 7.22 | 72.66 | 20.63 |      | 130.0 |         |
|           |                                                    | Z | 6.74 | 70.04 | 18.48 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.87 | 67.55 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.54 | 70.88 | 20.03 |      | 130.0 |         |
|           |                                                    | Z | 6.36 | 69.06 | 18.21 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.80 | 67.25 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.57 | 70.92 | 20.07 |      | 130.0 |         |
|           |                                                    | Z | 6.03 | 67.97 | 17.69 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.61 | 66.60 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 68.94 | 18.93 |      | 130.0 |         |
|           |                                                    | Z | 5.86 | 67.41 | 17.23 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.63 | 66.77 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.95 | 68.96 | 19.00 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 67.43 | 17.31 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.50 | 66.10 | 15.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.74 | 67.89 | 18.17 |      | 130.0 |         |
|           |                                                    | Z | 5.71 | 66.70 | 16.67 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.02 | 66.89 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.37 | 68.91 | 18.82 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 67.50 | 17.24 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.13 | 67.18 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.68 | 69.80 | 19.23 |      | 130.0 |         |
|           |                                                    | Z | 6.40 | 68.03 | 17.48 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.16 | 67.25 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.73 | 69.91 | 19.26 |      | 130.0 |         |
|           |                                                    | Z | 6.40 | 68.01 | 17.45 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.12   | 67.12  | 16.58 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.51   | 69.26  | 18.99 |       | 130.0 |         |
|           |                                                        | Z | 6.34   | 67.85  | 17.41 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.08   | 67.03  | 16.48 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.51   | 69.27  | 18.93 |       | 130.0 |         |
|           |                                                        | Z | 6.37   | 67.91  | 17.39 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.18   | 67.11  | 16.54 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.71   | 69.64  | 19.12 |       | 130.0 |         |
|           |                                                        | Z | 6.38   | 67.72  | 17.31 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.19   | 67.27  | 16.78 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.61   | 69.48  | 19.23 |       | 130.0 |         |
|           |                                                        | Z | 6.42   | 67.99  | 17.61 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.05   | 67.00  | 16.54 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.48   | 69.27  | 19.02 |       | 130.0 |         |
|           |                                                        | Z | 6.27   | 67.72  | 17.38 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.10   | 67.17  | 16.65 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.52   | 69.39  | 19.10 |       | 130.0 |         |
|           |                                                        | Z | 6.49   | 68.39  | 17.73 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.23   | 67.23  | 16.64 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 8.13   | 73.48  | 20.97 |       | 130.0 |         |
|           |                                                        | Z | 7.16   | 69.86  | 18.40 |       | 130.0 |         |
| 10646-AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 14.37  | 107.54 | 38.67 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 173.43 | 59.73 |       | 60.0  |         |
|           |                                                        | Z | 41.71  | 138.31 | 48.26 |       | 60.0  |         |
| 10647-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 11.83  | 103.39 | 37.49 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 175.64 | 60.71 |       | 60.0  |         |
|           |                                                        | Z | 31.40  | 131.83 | 46.69 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.78   | 64.45  | 11.55 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 100.00 | 252.99 | 79.22 |       | 150.0 |         |
|           |                                                        | Z | 100.00 | 133.79 | 33.09 |       | 150.0 |         |
| 10652-AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.52   | 66.54  | 16.16 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 8.14   | 87.06  | 27.02 |       | 80.0  |         |
|           |                                                        | Z | 3.95   | 69.55  | 18.84 |       | 80.0  |         |
| 10653-AAD | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.09   | 66.02  | 16.48 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 5.06   | 73.38  | 22.02 |       | 80.0  |         |
|           |                                                        | Z | 4.25   | 67.48  | 18.20 |       | 80.0  |         |
| 10654-AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.12   | 65.68  | 16.52 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.73   | 71.45  | 21.37 |       | 80.0  |         |
|           |                                                        | Z | 4.18   | 66.90  | 18.08 |       | 80.0  |         |
| 10655-AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.19   | 65.62  | 16.57 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.70   | 70.76  | 21.10 |       | 80.0  |         |
|           |                                                        | Z | 4.23   | 66.83  | 18.08 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 41.21  | 102.79 | 26.07 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 106.36 | 23.50 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 111.02 | 25.76 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 116.17 | 28.29 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 106.95 | 22.38 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 114.34 | 26.00 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 122.06 | 29.37 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 49.59  | 60.00  | 30.00 |      | 80.0  |         |
|           |                             | Z | 100.00 | 138.13 | 34.35 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 132.93 | 32.77 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.08   | 60.00  | 30.00 |      | 100.0 |         |
|           |                             | Z | 100.00 | 150.00 | 96.42 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 153.73 | 39.90 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 0.05   | 60.00  | 30.00 |      | 120.0 |         |
|           |                             | Z | 0.04   | 60.00  | 50.00 |      | 120.0 |         |
| 10670-AAA | Bluetooth Low Energy        | X | 100.00 | 134.60 | 33.73 | 2.19 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.10   | 60.00  | 30.00 |      | 100.0 |         |
|           |                             | Z | 100.00 | 250.27 | 77.09 |      | 100.0 |         |

<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.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Huawei-SZ (Auden)**

Certificate No: **EX3-3744\_Jul18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3744**

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

Calibration date: **July 25, 2018**

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       | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name            | Function              | Signature |
|-----------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------|
| Calibrated by:                                                                                                  | Claudio Leubler | Laboratory Technician |           |
| Approved by:                                                                                                    | Katja Pokovic   | Technical Manager     |           |
| Issued: July 28, 2018                                                                                           |                 |                       |           |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                 |                       |           |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- 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:3744

Manufactured: March 26, 2010  
Calibrated: July 25, 2018

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3744

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.47     | 0.48     | 0.40     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 97.6     | 99.6     | 113.8    |               |

### 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    | 156.2    | $\pm 3.0 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 156.0    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 170.2    |                           |

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:3744

### 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                            | 9.40    | 9.40    | 9.40    | 0.54               | 0.80                    | ± 12.0 %  |
| 850                  | 41.5                               | 0.92                            | 8.96    | 8.96    | 8.96    | 0.49               | 0.84                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.27    | 8.27    | 8.27    | 0.10               | 1.12                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 7.99    | 7.99    | 7.99    | 0.10               | 0.83                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 7.78    | 7.78    | 7.78    | 0.10               | 0.80                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.74    | 7.74    | 7.74    | 0.30               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.24    | 7.24    | 7.24    | 0.30               | 0.95                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 6.90    | 6.90    | 6.90    | 0.30               | 0.95                    | ± 12.0 %  |

<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.