

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.45 | 67.82 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.33 | 66.98 | 16.06 |      | 150.0 |         |
|           |                                                            | Z | 4.35 | 67.12 | 16.09 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.48 | 67.81 | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.38 | 67.00 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 4.40 | 67.13 | 16.19 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.50 | 66.88 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.39 | 66.07 | 15.76 |      | 150.0 |         |
|           |                                                            | Z | 4.41 | 66.21 | 15.79 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.65 | 67.22 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.53 | 66.39 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.55 | 66.53 | 15.93 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.58 | 67.20 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.45 | 66.35 | 15.83 |      | 150.0 |         |
|           |                                                            | Z | 4.48 | 66.49 | 15.86 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.59 | 67.21 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.47 | 66.37 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.51 | 15.89 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.59 | 67.21 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.47 | 66.37 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.51 | 15.89 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.57 | 67.29 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.45 | 66.43 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.47 | 66.57 | 15.89 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.44 | 67.16 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.32 | 66.28 | 15.78 |      | 150.0 |         |
|           |                                                            | Z | 4.34 | 66.42 | 15.82 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.60 | 67.29 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.48 | 66.43 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.50 | 66.57 | 15.89 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.13 | 67.13 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.03 | 66.47 | 15.96 |      | 150.0 |         |
|           |                                                            | Z | 5.04 | 66.59 | 15.97 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.19 | 67.31 | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.09 | 66.65 | 16.05 |      | 150.0 |         |
|           |                                                            | Z | 5.10 | 66.76 | 16.05 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.07 | 67.31 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.97 | 66.61 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 4.98 | 66.72 | 16.01 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.12 | 67.24 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.02 | 66.57 | 15.99 |      | 150.0 |         |
|           |                                                            | Z | 5.03 | 66.68 | 16.00 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.20 | 67.22 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 66.57 | 16.03 |      | 150.0 |         |
|           |                                                            | Z | 5.11 | 66.68 | 16.04 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.13 | 67.21 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.03 | 66.56 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 5.04 | 66.66 | 16.05 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.11 | 67.09 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.01 | 66.44 | 15.97 |      | 150.0 |         |
|           |                                                    | Z | 5.02 | 66.56 | 15.98 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.26 | 67.17 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.17 | 66.54 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.18 | 66.66 | 16.05 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.32 | 67.17 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.23 | 66.56 | 16.07 |      | 150.0 |         |
|           |                                                    | Z | 5.24 | 66.67 | 16.08 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.45 | 67.16 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.36 | 66.58 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.37 | 66.70 | 15.97 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.65 | 67.64 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 67.04 | 16.15 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 67.11 | 16.14 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.50 | 67.33 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.40 | 66.73 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.41 | 66.85 | 16.02 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.57 | 67.40 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.48 | 66.81 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.49 | 66.91 | 16.05 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.80 | 68.28 | 16.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 67.67 | 16.45 |      | 150.0 |         |
|           |                                                    | Z | 5.67 | 67.67 | 16.40 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.55 | 67.47 | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.46 | 66.86 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.94 | 16.08 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.52 | 67.37 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 66.79 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.44 | 66.89 | 16.02 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.46 | 67.26 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.65 | 15.94 |      | 150.0 |         |
|           |                                                    | Z | 5.38 | 66.78 | 15.96 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.53 | 67.23 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 66.65 | 15.98 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.78 | 15.99 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.87 | 67.48 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 66.94 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.78 | 67.05 | 16.06 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.99 | 67.78 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 67.23 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.89 | 67.32 | 16.18 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.02 | 67.86 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.93 | 67.30 | 16.21 |      | 150.0 |         |
|           |                                                    | Z | 5.92 | 67.39 | 16.21 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.97 | 67.72 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.88 | 67.16 | 16.17 |      | 150.0 |         |
|           |                                                    | Z | 5.88 | 67.27 | 16.17 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.01   | 67.87  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.92   | 67.31  | 16.26 |      | 150.0 |         |
|           |                                                                 | Z | 5.92   | 67.42  | 16.26 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.00   | 67.71  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91   | 67.17  | 16.22 |      | 150.0 |         |
|           |                                                                 | Z | 5.92   | 67.28  | 16.23 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.94   | 67.72  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.85   | 67.17  | 16.26 |      | 150.0 |         |
|           |                                                                 | Z | 5.85   | 67.26  | 16.25 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.02   | 67.98  | 16.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.93   | 67.43  | 16.39 |      | 150.0 |         |
|           |                                                                 | Z | 5.93   | 67.53  | 16.39 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.11   | 67.87  | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.03   | 67.36  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 6.01   | 67.42  | 16.30 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.84   | 67.60  | 16.86 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.76   | 66.94  | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 4.77   | 67.07  | 16.31 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.05   | 68.00  | 17.15 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.96   | 67.35  | 16.59 |      | 150.0 |         |
|           |                                                                 | Z | 4.98   | 67.47  | 16.60 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.89   | 67.87  | 16.99 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.80   | 67.18  | 16.40 |      | 150.0 |         |
|           |                                                                 | Z | 4.82   | 67.31  | 16.42 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.92   | 68.26  | 17.34 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83   | 67.55  | 16.75 |      | 150.0 |         |
|           |                                                                 | Z | 4.84   | 67.66  | 16.76 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.81   | 67.69  | 16.79 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.72   | 67.00  | 16.19 |      | 150.0 |         |
|           |                                                                 | Z | 4.74   | 67.13  | 16.23 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.90   | 68.45  | 17.47 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.80   | 67.71  | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.82   | 67.82  | 16.85 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.91   | 68.26  | 17.37 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.82   | 67.54  | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 4.84   | 67.65  | 16.78 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.39   | 68.54  | 18.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.22   | 65.10  | 15.55 |      | 130.0 |         |
|           |                                                                 | Z | 1.24   | 65.31  | 15.71 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.43   | 69.55  | 18.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.24   | 65.69  | 15.90 |      | 130.0 |         |
|           |                                                                 | Z | 1.26   | 65.89  | 16.05 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 159.88 | 44.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.62   | 87.08  | 22.76 |      | 130.0 |         |
|           |                                                                 | Z | 2.75   | 88.34  | 23.60 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 2.30   | 83.33  | 25.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.38   | 71.49  | 18.69 |      | 130.0 |         |
|           |                                                                 | Z | 1.40   | 71.55  | 18.82 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.65 | 67.47 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.56 | 66.80 | 16.37 |      | 130.0 |         |
|           |                                                                 | Z | 4.58 | 66.92 | 16.39 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.68 | 67.67 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.98 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 67.09 | 16.46 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.85 | 67.90 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 67.23 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.34 | 16.61 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.76 | 68.08 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.67 | 67.37 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 67.47 | 16.70 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.52 | 67.37 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 66.66 | 16.00 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.79 | 16.04 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.57 | 67.45 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.73 | 16.04 |      | 130.0 |         |
|           |                                                                 | Z | 4.51 | 66.87 | 16.08 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.68 | 68.20 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.44 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 67.55 | 16.66 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.46 | 67.16 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.38 | 66.43 | 15.80 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 66.59 | 15.85 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.65 | 67.47 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.56 | 66.80 | 16.37 |      | 130.0 |         |
|           |                                                                 | Z | 4.58 | 66.92 | 16.39 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.68 | 67.67 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.98 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.61 | 67.09 | 16.46 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.85 | 67.90 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 67.23 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.34 | 16.61 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.76 | 68.08 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.67 | 67.37 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 67.47 | 16.70 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.52 | 67.37 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 66.66 | 16.00 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.79 | 16.04 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.57 | 67.45 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.73 | 16.04 |      | 130.0 |         |
|           |                                                                 | Z | 4.51 | 66.87 | 16.08 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.68 | 68.20 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.44 | 16.65 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 67.55 | 16.66 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.46 | 67.16 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.38 | 66.43 | 15.80 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 66.59 | 15.85 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.79 | 67.49 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.72 | 66.87 | 16.48 |      | 130.0 |         |
|           |                                                       | Z | 4.73 | 66.98 | 16.49 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.93 | 67.82 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.85 | 67.18 | 16.61 |      | 130.0 |         |
|           |                                                       | Z | 4.87 | 67.29 | 16.62 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.85 | 67.72 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.77 | 67.07 | 16.48 |      | 130.0 |         |
|           |                                                       | Z | 4.79 | 67.19 | 16.50 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.91 | 67.89 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.83 | 67.24 | 16.64 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 67.35 | 16.65 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.88 | 67.89 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.79 | 67.21 | 16.54 |      | 130.0 |         |
|           |                                                       | Z | 4.81 | 67.33 | 16.56 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.81 | 67.89 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.73 | 67.20 | 16.54 |      | 130.0 |         |
|           |                                                       | Z | 4.75 | 67.32 | 16.56 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.76 | 67.77 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.68 | 67.08 | 16.41 |      | 130.0 |         |
|           |                                                       | Z | 4.70 | 67.20 | 16.43 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.75 | 67.99 | 17.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.66 | 67.29 | 16.66 |      | 130.0 |         |
|           |                                                       | Z | 4.68 | 67.40 | 16.67 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.46 | 67.90 | 17.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.39 | 67.38 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.39 | 67.43 | 16.70 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.60 | 68.37 | 17.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.53 | 67.84 | 16.93 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.83 | 16.88 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.48 | 68.09 | 17.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.41 | 67.56 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 5.41 | 67.60 | 16.78 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.61 | 68.27 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.54 | 67.71 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 5.54 | 67.78 | 16.79 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.68 | 68.53 | 17.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.96 | 17.06 |      | 130.0 |         |
|           |                                                       | Z | 5.59 | 68.00 | 17.03 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.56 | 68.19 | 17.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.48 | 67.64 | 16.88 |      | 130.0 |         |
|           |                                                       | Z | 5.47 | 67.67 | 16.85 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.59 | 68.28 | 17.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.53 | 67.75 | 16.94 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.78 | 16.90 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.33 | 67.56 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.26 | 67.02 | 16.42 |      | 130.0 |         |
|           |                                                       | Z | 5.26 | 67.10 | 16.42 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.65 | 66.90 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.55 | 66.17 | 16.10 |      | 130.0 |         |
|           |                                                   | Z | 4.57 | 66.30 | 16.12 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.82 | 67.28 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.71 | 66.54 | 16.26 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.66 | 16.27 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.71 | 67.14 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.61 | 66.38 | 16.09 |      | 130.0 |         |
|           |                                                   | Z | 4.63 | 66.51 | 16.11 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.76 | 67.30 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.66 | 66.54 | 16.25 |      | 130.0 |         |
|           |                                                   | Z | 4.67 | 66.66 | 16.27 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.68 | 67.11 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.57 | 66.35 | 16.10 |      | 130.0 |         |
|           |                                                   | Z | 4.59 | 66.48 | 16.12 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.69 | 67.30 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.58 | 66.50 | 16.15 |      | 130.0 |         |
|           |                                                   | Z | 4.60 | 66.63 | 16.17 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.68 | 67.12 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.57 | 66.35 | 16.01 |      | 130.0 |         |
|           |                                                   | Z | 4.59 | 66.48 | 16.04 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.64 | 67.32 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.53 | 66.53 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.54 | 66.65 | 16.25 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.68 | 66.97 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.57 | 66.20 | 15.88 |      | 130.0 |         |
|           |                                                   | Z | 4.59 | 66.34 | 15.92 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.28 | 67.16 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.20 | 66.58 | 16.30 |      | 130.0 |         |
|           |                                                   | Z | 5.21 | 66.68 | 16.30 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.36 | 67.40 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.28 | 66.80 | 16.39 |      | 130.0 |         |
|           |                                                   | Z | 5.28 | 66.87 | 16.38 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.26 | 67.44 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.17 | 66.81 | 16.40 |      | 130.0 |         |
|           |                                                   | Z | 5.17 | 66.89 | 16.40 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.26 | 67.20 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.17 | 66.59 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 5.18 | 66.68 | 16.23 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.34 | 67.21 | 16.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.62 | 16.30 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.71 | 16.30 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.34 | 67.32 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.75 | 16.48 |      | 130.0 |         |
|           |                                                   | Z | 5.27 | 66.83 | 16.47 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.35 | 67.46 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.28 | 66.93 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 5.27 | 66.98 | 16.53 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.23 | 66.99 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.15 | 66.41 | 16.18 |      | 130.0 |         |
|           |                                                    | Z | 5.16 | 66.53 | 16.18 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.42 | 67.20 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.34 | 66.64 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.35 | 66.73 | 16.35 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.63 | 67.73 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.58 | 67.24 | 16.71 |      | 130.0 |         |
|           |                                                    | Z | 5.57 | 67.31 | 16.69 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.60 | 67.16 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.64 | 16.27 |      | 130.0 |         |
|           |                                                    | Z | 5.52 | 66.74 | 16.27 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.85 | 67.83 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.77 | 67.28 | 16.56 |      | 130.0 |         |
|           |                                                    | Z | 5.75 | 67.31 | 16.52 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.61 | 67.20 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.53 | 66.67 | 16.19 |      | 130.0 |         |
|           |                                                    | Z | 5.54 | 66.78 | 16.19 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.70 | 67.32 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 66.78 | 16.24 |      | 130.0 |         |
|           |                                                    | Z | 5.62 | 66.87 | 16.23 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.07 | 68.67 | 17.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.00 | 68.13 | 16.92 |      | 130.0 |         |
|           |                                                    | Z | 5.94 | 68.05 | 16.83 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.97 | 68.45 | 17.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.89 | 67.90 | 16.98 |      | 130.0 |         |
|           |                                                    | Z | 5.88 | 67.93 | 16.94 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.82 | 67.90 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.74 | 67.35 | 16.73 |      | 130.0 |         |
|           |                                                    | Z | 5.72 | 67.37 | 16.68 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.68 | 67.41 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.60 | 66.87 | 16.32 |      | 130.0 |         |
|           |                                                    | Z | 5.60 | 66.97 | 16.31 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.66 | 67.41 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.57 | 66.87 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.58 | 66.98 | 16.37 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.53 | 66.73 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.45 | 66.20 | 15.78 |      | 130.0 |         |
|           |                                                    | Z | 5.46 | 66.34 | 15.80 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.03 | 67.50 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.95 | 67.01 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.95 | 67.10 | 16.36 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.18 | 67.89 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.10 | 67.40 | 16.55 |      | 130.0 |         |
|           |                                                    | Z | 6.09 | 67.46 | 16.52 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.18 | 67.87 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.10 | 67.37 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 6.09 | 67.44 | 16.49 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.14   | 67.77  | 16.94 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.06   | 67.27  | 16.50 |       | 130.0 |         |
|           |                                                        | Z | 6.06   | 67.36  | 16.49 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.14   | 67.79  | 16.90 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.06   | 67.28  | 16.45 |       | 130.0 |         |
|           |                                                        | Z | 6.06   | 67.37  | 16.45 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.21   | 67.77  | 16.91 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.13   | 67.28  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.12   | 67.34  | 16.45 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.22   | 67.93  | 17.15 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.15   | 67.45  | 16.72 |       | 130.0 |         |
|           |                                                        | Z | 6.14   | 67.53  | 16.70 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.08   | 67.68  | 16.93 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.00   | 67.18  | 16.48 |       | 130.0 |         |
|           |                                                        | Z | 6.00   | 67.26  | 16.47 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.18   | 67.98  | 17.10 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.10   | 67.49  | 16.66 |       | 130.0 |         |
|           |                                                        | Z | 6.10   | 67.58  | 16.65 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.32   | 68.06  | 17.10 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.25   | 67.59  | 16.68 |       | 130.0 |         |
|           |                                                        | Z | 6.22   | 67.60  | 16.62 |       | 130.0 |         |
| 10646-AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 100.00 | 154.11 | 50.71 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 85.82  | 146.30 | 47.76 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 151.52 | 49.47 |       | 60.0  |         |
| 10647-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 100.00 | 155.63 | 51.38 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 67.85  | 141.83 | 46.85 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 152.93 | 50.09 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 1.06   | 70.77  | 14.07 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.56   | 62.00  | 8.87  |       | 150.0 |         |
|           |                                                        | Z | 0.60   | 62.58  | 9.50  |       | 150.0 |         |
| 10652-AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 4.36   | 70.70  | 18.37 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.96   | 68.40  | 16.96 |       | 80.0  |         |
|           |                                                        | Z | 3.96   | 68.48  | 17.00 |       | 80.0  |         |
| 10653-AAD | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.65   | 68.82  | 18.04 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.44   | 67.50  | 17.11 |       | 80.0  |         |
|           |                                                        | Z | 4.44   | 67.58  | 17.12 |       | 80.0  |         |
| 10654-AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.59   | 68.27  | 17.98 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.42   | 67.11  | 17.12 |       | 80.0  |         |
|           |                                                        | Z | 4.42   | 67.19  | 17.13 |       | 80.0  |         |
| 10655-AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.64   | 68.14  | 17.98 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.48   | 67.05  | 17.15 |       | 80.0  |         |
|           |                                                        | Z | 4.49   | 67.14  | 17.17 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 100.00 | 116.19 | 29.17 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 114.83 | 28.64 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 116.26 | 29.35 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 114.21 | 27.33 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 111.64 | 26.23 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 113.42 | 27.07 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 115.66 | 26.72 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 109.80 | 24.16 |      | 80.0  |         |
|           |                             | Z | 100.00 | 112.50 | 25.39 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 122.78 | 28.50 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 109.73 | 22.95 |      | 100.0 |         |
|           |                             | Z | 100.00 | 114.21 | 24.92 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 153.24 | 38.77 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 108.44 | 20.84 |      | 120.0 |         |
|           |                             | Z | 100.00 | 118.57 | 25.05 |      | 120.0 |         |
| 10670-AAA | Bluetooth Low Energy        | X | 100.00 | 122.74 | 28.87 | 2.19 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 111.53 | 24.06 |      | 100.0 |         |
|           |                             | Z | 100.00 | 115.23 | 25.69 |      | 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.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-3837\_Mar18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3837**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,  
QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

SC ✓  
3/2/18

Calibration date: **March 16, 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 ( $22 \pm 3$ )°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-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| 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-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                |                |                       |           |
|----------------|----------------|-----------------------|-----------|
| Calibrated by: | Name           | Function              | Signature |
|                | Jeton Kastrati | Laboratory Technician |           |
| Approved by:   | Name           | Function              | Signature |
|                | Katja Pokovic  | Technical Manager     |           |

Issued: March 17, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Accreditation No.: **SCS 0108**

### 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 $\phi$      | $\phi$ 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  $E^2$ -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:3837

Manufactured: November 7, 2011  
Calibrated: March 16, 2018

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.46     | 0.46     | 0.24     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 100.0    | 95.0     | 91.4     |               |

### 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    | 133.6    | $\pm 2.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 132.0    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 134.4    |                           |

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 | 45.57    | 340.2    | 35.78                       | 10.62                                 | 0.398                                 | 5.043    | 1.258                 | 0.358                 | 1.006 |
| Y | 52.82    | 412.7    | 38.56                       | 10.70                                 | 0.721                                 | 5.066    | 0.000                 | 0.679                 | 1.010 |
| Z | 55.06    | 428.3    | 38.40                       | 7.269                                 | 0.741                                 | 5.034    | 0.000                 | 0.592                 | 1.006 |

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:3837

### 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) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 30                   | 55.0                               | 0.75                            | 14.25   | 14.25   | 14.25   | 0.00               | 1.00                    | ± 13.3 %  |
| 5250                 | 35.9                               | 4.71                            | 5.50    | 5.50    | 5.50    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.88    | 4.88    | 4.88    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.04    | 5.04    | 5.04    | 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:3837

### 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) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 5250                 | 48.9                               | 5.36                            | 4.84    | 4.84    | 4.84    | 0.45               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.13    | 4.13    | 4.13    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.43    | 4.43    | 4.43    | 0.50               | 1.90                    | ± 13.1 %  |

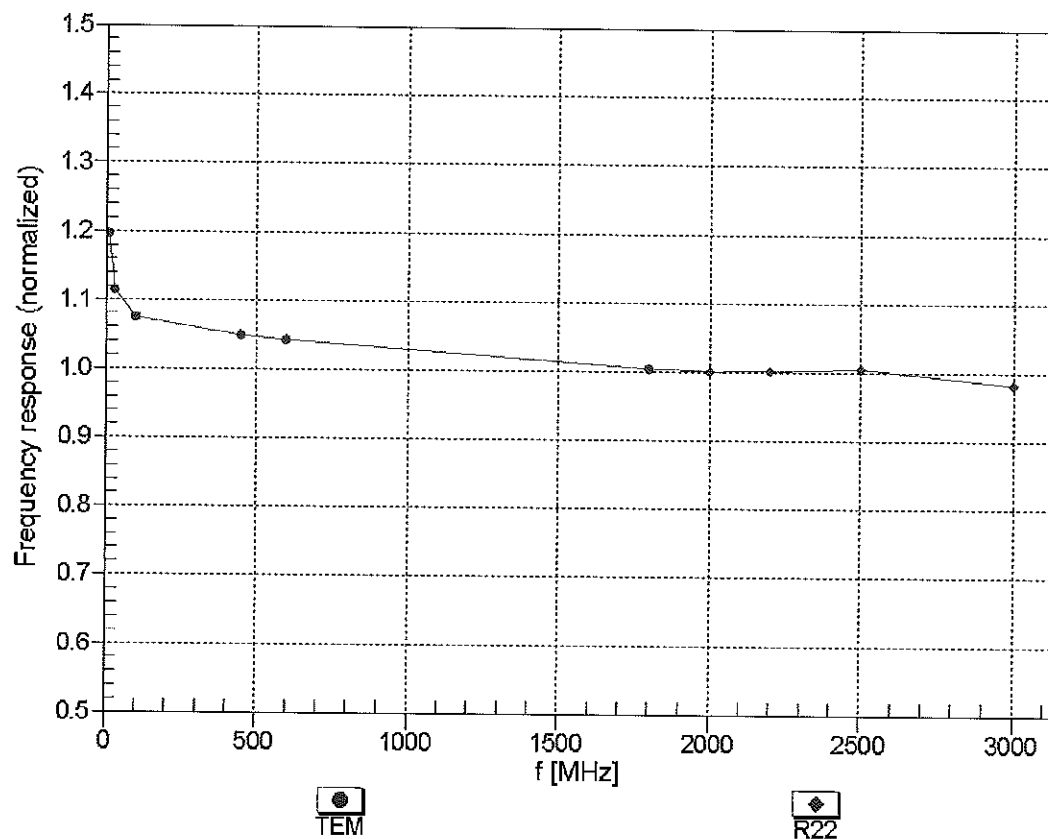
<sup>C</sup> Frequency validity above 300 MHz of  $\pm 100$  MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm 50$  MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm 10$ , 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  $\pm 110$  MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  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  $\pm 5\%$ . 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  $\pm 1\%$  for frequencies below 3 GHz and below  $\pm 2\%$  for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

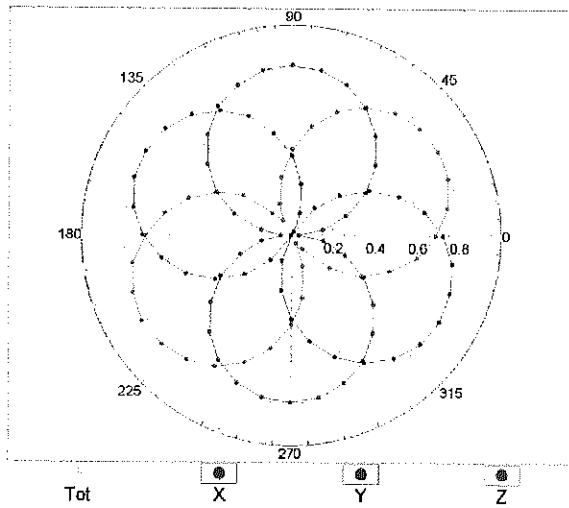
(TEM-Cell:ifi110 EXX, Waveguide: R22)



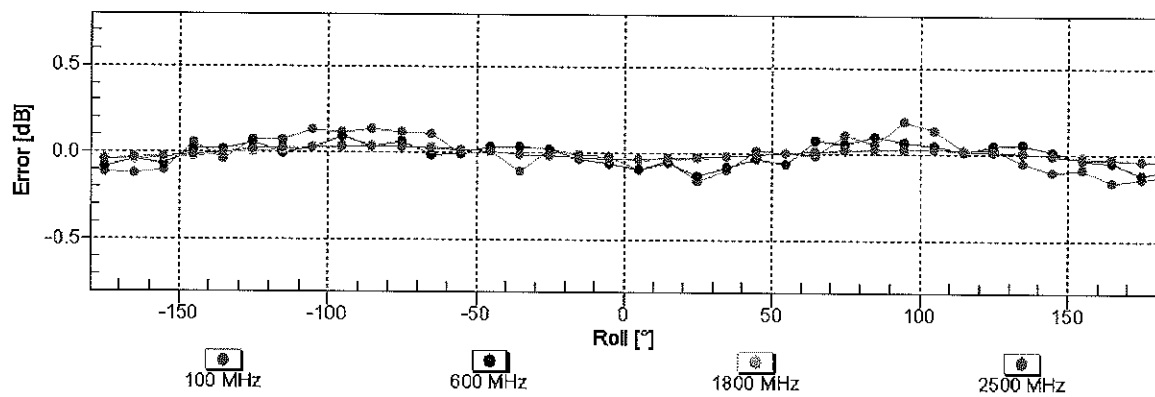
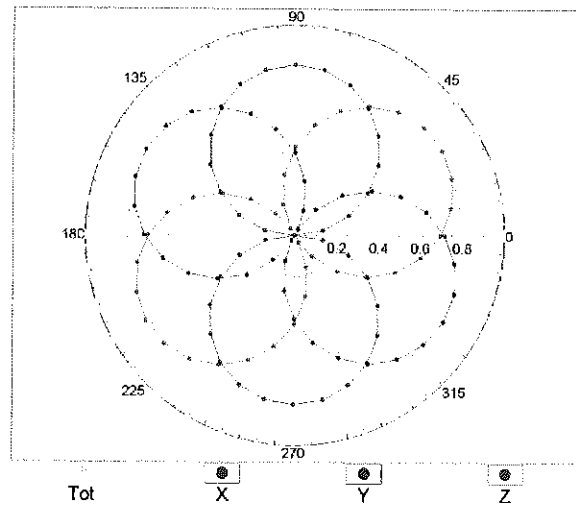
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz,TEM

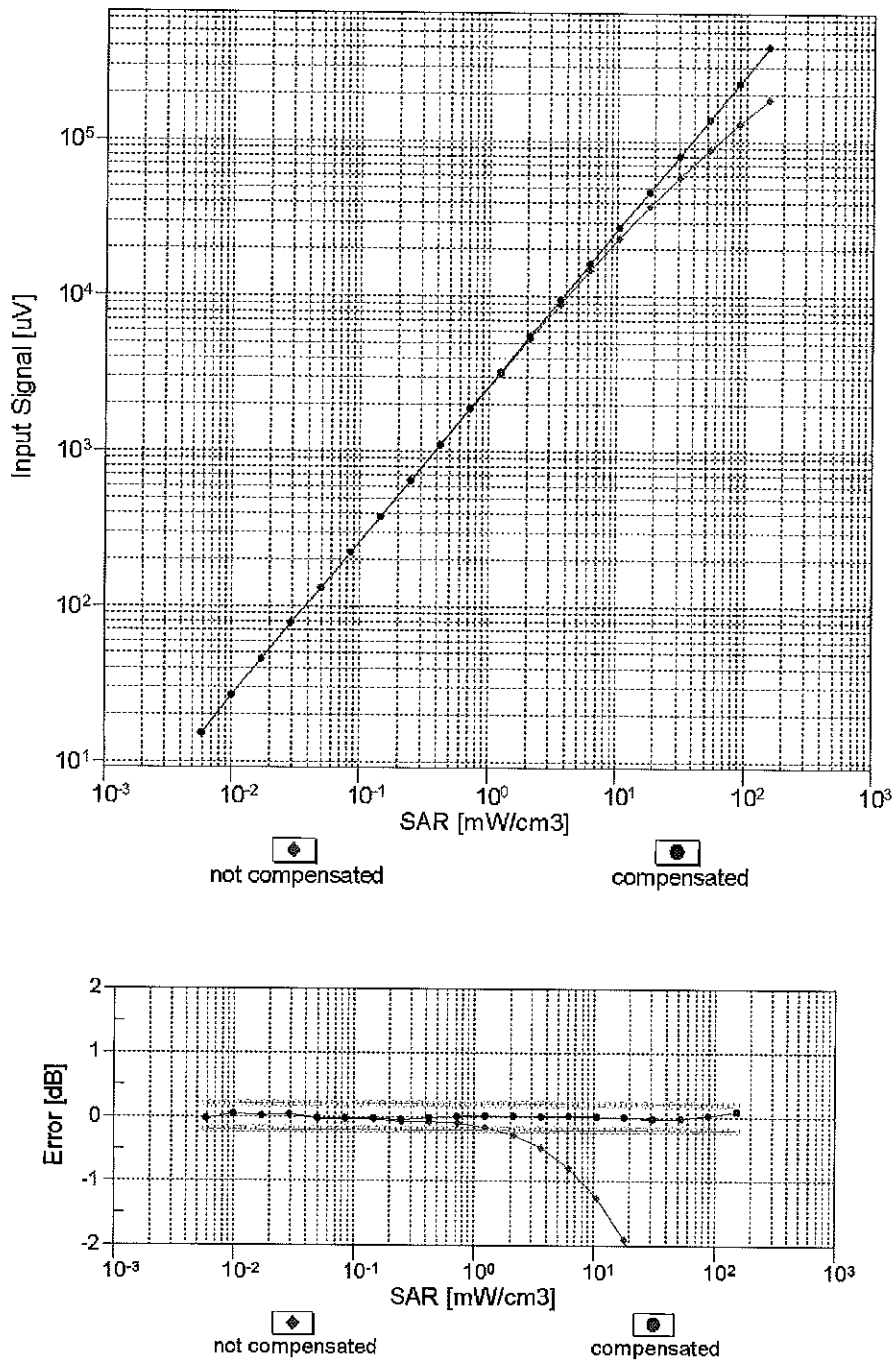


f=1800 MHz,R22



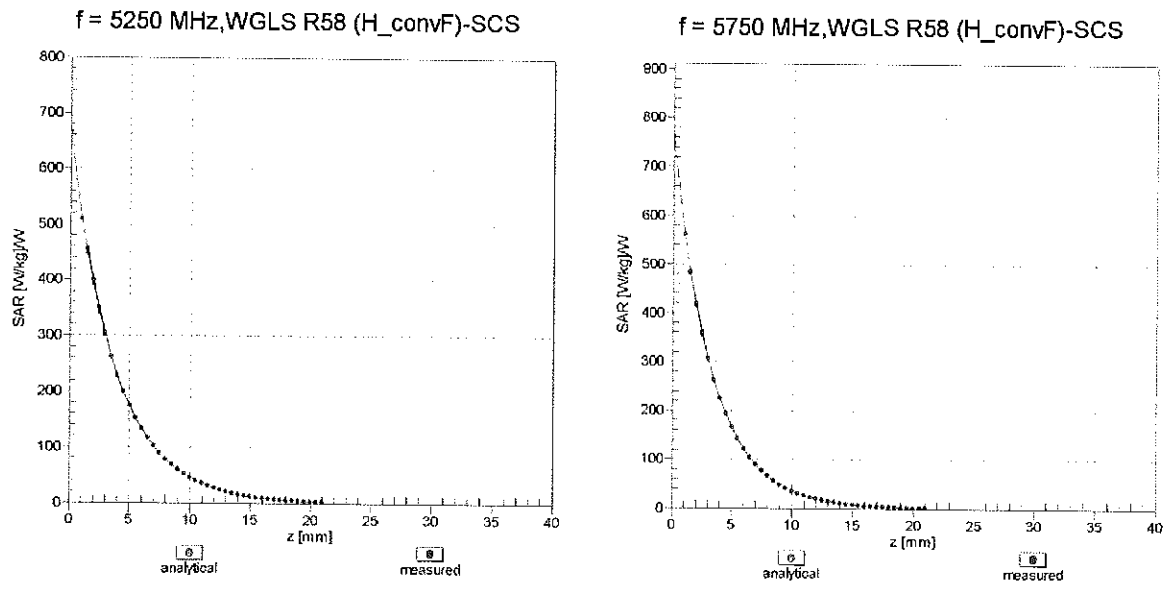
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

Dynamic Range f(SAR<sub>head</sub>)  
(TEM cell , f<sub>eval</sub>= 1900 MHz)



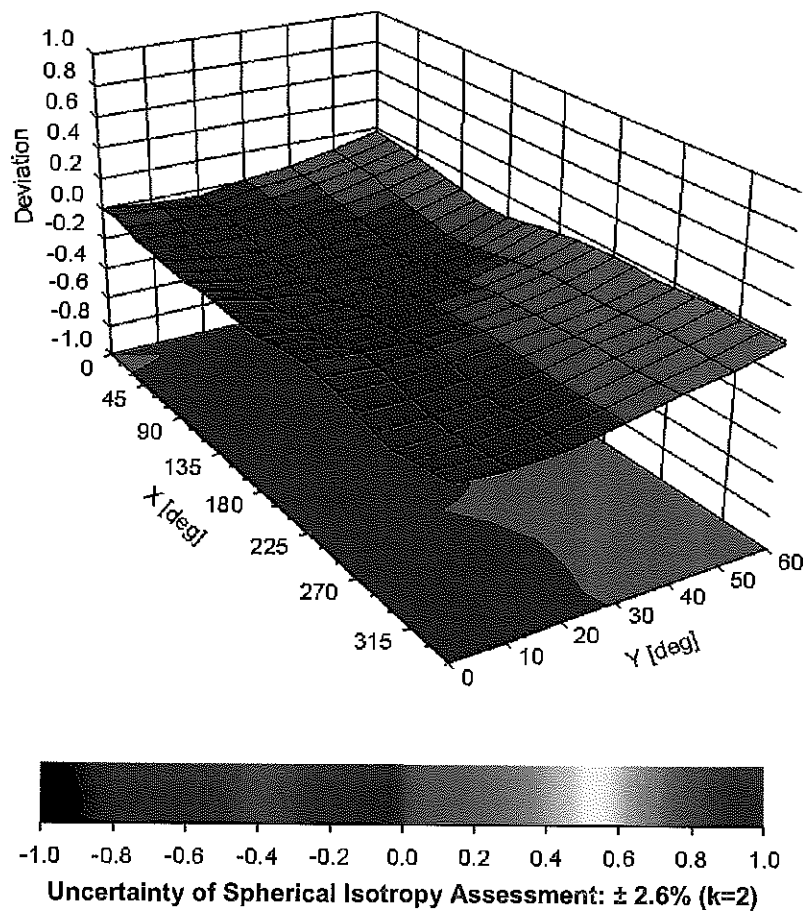
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 74.7       |
| 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 $\sqrt{\mu V}$ | 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    | 133.6    | $\pm 2.5 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 132.0    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 134.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.03    | 64.95                  | 9.51  | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.97    | 63.98                  | 9.16  |         | 20.0     |                                  |
|               |                                               | Z | 1.85    | 63.08                  | 8.50  |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.28    | 72.25                  | 18.00 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.93    | 66.60                  | 14.42 |         | 150.0    |                                  |
|               |                                               | Z | 1.13    | 70.25                  | 16.68 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.18    | 64.97                  | 16.30 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.06    | 63.26                  | 14.90 |         | 150.0    |                                  |
|               |                                               | Z | 1.09    | 64.06                  | 15.74 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.83    | 66.83                  | 17.25 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.84    | 66.39                  | 17.06 |         | 150.0    |                                  |
|               |                                               | Z | 4.85    | 66.45                  | 17.14 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 110.75                 | 25.49 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 111.10                 | 25.91 |         | 50.0     |                                  |
|               |                                               | Z | 48.02   | 100.28                 | 22.67 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 110.33                 | 25.35 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.88                 | 25.86 |         | 50.0     |                                  |
|               |                                               | Z | 19.64   | 89.95                  | 19.98 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 110.84                 | 24.47 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 108.80                 | 23.72 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 106.11                 | 22.30 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 5.45    | 80.17                  | 31.75 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 3.93    | 68.30                  | 24.95 |         | 50.0     |                                  |
|               |                                               | Z | 3.54    | 65.29                  | 22.96 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 9.53    | 95.10                  | 34.35 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 8.87    | 91.37                  | 32.43 |         | 60.0     |                                  |
|               |                                               | Z | 7.83    | 88.30                  | 31.08 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.83                 | 24.58 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 107.21                 | 22.22 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 104.35                 | 20.69 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 116.67                 | 25.52 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 105.18                 | 20.65 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 102.00                 | 19.00 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 5.56    | 82.09                  | 28.08 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.61    | 81.11                  | 27.31 |         | 80.0     |                                  |
|               |                                               | Z | 5.04    | 78.94                  | 26.34 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 109.70                 | 23.52 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 106.53                 | 22.24 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 103.90                 | 20.83 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 117.25                 | 24.30 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.36    | 61.16                  | 5.47  |         | 100.0    |                                  |
|               |                                               | Z | 0.24    | 60.00                  | 4.36  |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 142.46 | 32.89 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.19   | 60.00  | 3.50  |       | 100.0 |         |
|           |                                                     | Z | 47.65  | 61.02  | 1.54  |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 75.36  | 125.33 | 33.61 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 17.26  | 101.58 | 27.60 |       | 70.0  |         |
|           |                                                     | Z | 12.23  | 96.92  | 26.29 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 9.06   | 94.35  | 24.05 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.87   | 77.35  | 18.29 |       | 100.0 |         |
|           |                                                     | Z | 3.15   | 79.89  | 19.62 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 4.40   | 85.21  | 20.99 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.80   | 71.96  | 15.84 |       | 100.0 |         |
|           |                                                     | Z | 2.08   | 75.09  | 17.57 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 130.25 | 34.85 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 31.85  | 111.50 | 30.35 |       | 70.0  |         |
|           |                                                     | Z | 21.04  | 105.76 | 28.87 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 7.39   | 91.62  | 23.22 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.68   | 76.50  | 17.93 |       | 100.0 |         |
|           |                                                     | Z | 2.89   | 78.82  | 19.19 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 4.58   | 86.18  | 21.46 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.83   | 72.50  | 16.18 |       | 100.0 |         |
|           |                                                     | Z | 2.15   | 75.86  | 18.00 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 4.21   | 84.26  | 20.24 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.58   | 69.80  | 14.38 |       | 150.0 |         |
|           |                                                     | Z | 2.61   | 77.09  | 17.86 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 107.13 | 23.10 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 106.13 | 22.81 |       | 50.0  |         |
|           |                                                     | Z | 5.57   | 76.12  | 14.29 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.01   | 119.48 | 4.98  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.20   | 127.74 | 0.55  |       | 150.0 |         |
|           |                                                     | Z | 0.17   | 132.08 | 12.71 |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 35.57  | 95.27  | 22.61 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 13.44  | 83.93  | 20.02 |       | 25.0  |         |
|           |                                                     | Z | 6.71   | 73.54  | 16.05 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 100.00 | 109.17 | 25.17 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 18.00  | 89.53  | 20.64 |       | 40.0  |         |
|           |                                                     | Z | 6.88   | 76.63  | 16.02 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00 | 123.08 | 32.78 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 23.83  | 100.47 | 27.19 |       | 50.0  |         |
|           |                                                     | Z | 16.38  | 93.88  | 24.93 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.26   | 76.58  | 24.95 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.34   | 76.15  | 24.46 |       | 100.0 |         |
|           |                                                     | Z | 3.96   | 74.54  | 23.77 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.22   | 66.27  | 17.02 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.10   | 64.38  | 15.54 |       | 110.0 |         |
|           |                                                     | Z | 1.11   | 65.15  | 16.35 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 145.56 | 38.66 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 79.31  | 131.95 | 33.33 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 140.55 | 36.12 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 4.10 | 89.25 | 26.11 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 2.95 | 82.10 | 22.86 |      | 110.0 |         |
|           |                                                | Z | 2.81 | 82.64 | 23.42 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.65 | 66.90 | 16.74 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.65 | 66.39 | 16.48 |      | 100.0 |         |
|           |                                                | Z | 4.69 | 66.55 | 16.65 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.66 | 66.98 | 16.83 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 66.49 | 16.58 |      | 100.0 |         |
|           |                                                | Z | 4.70 | 66.63 | 16.74 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.94 | 67.22 | 17.03 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 66.79 | 16.84 |      | 100.0 |         |
|           |                                                | Z | 5.01 | 66.93 | 16.98 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.80 | 67.09 | 17.12 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.83 | 66.69 | 16.93 |      | 100.0 |         |
|           |                                                | Z | 4.86 | 66.80 | 17.05 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.81 | 67.10 | 17.28 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.85 | 66.72 | 17.10 |      | 100.0 |         |
|           |                                                | Z | 4.87 | 66.80 | 17.20 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.09 | 67.23 | 17.69 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.14 | 66.84 | 17.53 |      | 100.0 |         |
|           |                                                | Z | 5.14 | 66.84 | 17.56 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.13 | 67.22 | 17.88 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 66.96 | 17.79 |      | 100.0 |         |
|           |                                                | Z | 5.20 | 66.96 | 17.81 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.20 | 67.22 | 18.06 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.28 | 66.93 | 17.97 |      | 100.0 |         |
|           |                                                | Z | 5.28 | 66.90 | 17.97 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.91 | 66.88 | 17.53 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.93 | 66.48 | 17.36 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 66.50 | 17.42 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.88 | 67.19 | 17.74 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.92 | 66.83 | 17.59 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 66.83 | 17.62 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.93 | 67.31 | 18.05 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 66.97 | 17.90 |      | 100.0 |         |
|           |                                                | Z | 4.96 | 66.91 | 17.89 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.91 | 67.18 | 18.17 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.94 | 66.83 | 18.04 |      | 100.0 |         |
|           |                                                | Z | 4.91 | 66.74 | 18.01 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.93 | 67.25 | 18.46 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.98 | 66.98 | 18.37 |      | 90.0  |         |
|           |                                                | Z | 4.95 | 66.88 | 18.32 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.94 | 67.02 | 18.57 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.98 | 66.70 | 18.45 |      | 90.0  |         |
|           |                                                | Z | 4.93 | 66.56 | 18.37 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.96 | 67.08 | 18.66 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.00 | 66.75 | 18.54 |      | 90.0  |         |
|           |                                                | Z | 4.95 | 66.60 | 18.45 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.22   | 72.11  | 15.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.71   | 64.23  | 11.07 |      | 150.0 |         |
|           |                                                     | Z | 0.94   | 68.15  | 13.57 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.46   | 58.22  | 3.03  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 2.52   | 64.99  | 5.75  |      | 80.0  |         |
|           |                                                     | Z | 17.73  | 69.69  | 6.27  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 110.88 | 24.51 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 108.92 | 23.80 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 106.22 | 22.37 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.03   | 70.22  | 17.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.72   | 66.96  | 15.21 |      | 150.0 |         |
|           |                                                     | Z | 1.88   | 68.77  | 16.45 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.99   | 70.21  | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.68   | 66.91  | 15.17 |      | 150.0 |         |
|           |                                                     | Z | 1.84   | 68.75  | 16.42 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 9.62   | 95.30  | 34.41 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 8.94   | 91.50  | 32.47 |      | 60.0  |         |
|           |                                                     | Z | 7.88   | 88.41  | 31.12 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.39   | 72.22  | 17.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.04   | 69.79  | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 3.32   | 71.43  | 17.27 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.31   | 68.32  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.18   | 67.17  | 15.74 |      | 150.0 |         |
|           |                                                     | Z | 3.30   | 67.92  | 16.28 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.41   | 68.23  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.29   | 67.15  | 15.86 |      | 150.0 |         |
|           |                                                     | Z | 3.40   | 67.86  | 16.37 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.20   | 76.40  | 20.96 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.84   | 74.64  | 20.13 |      | 65.0  |         |
|           |                                                     | Z | 5.59   | 74.11  | 19.90 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.98   | 73.69  | 20.61 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.92   | 72.87  | 20.21 |      | 65.0  |         |
|           |                                                     | Z | 5.64   | 72.17  | 19.91 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.57   | 72.09  | 20.19 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.84   | 72.51  | 20.38 |      | 65.0  |         |
|           |                                                     | Z | 5.27   | 70.68  | 19.54 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.95   | 71.50  | 17.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.66   | 69.08  | 16.17 |      | 150.0 |         |
|           |                                                     | Z | 2.91   | 70.73  | 17.16 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.97   | 68.35  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.84   | 67.00  | 15.64 |      | 150.0 |         |
|           |                                                     | Z | 2.97   | 67.87  | 16.26 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.41   | 70.87  | 17.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.15   | 68.17  | 15.76 |      | 150.0 |         |
|           |                                                     | Z | 2.37   | 69.92  | 16.86 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.76   | 69.84  | 17.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.54   | 67.71  | 15.87 |      | 150.0 |         |
|           |                                                     | Z | 2.72   | 68.98  | 16.76 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.09 | 68.29 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.97 | 66.99 | 15.71 |      | 150.0 |         |
|           |                                                | Z | 3.09 | 67.79 | 16.30 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.91 | 69.90 | 17.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.70 | 67.86 | 16.03 |      | 150.0 |         |
|           |                                                | Z | 2.87 | 69.05 | 16.86 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.12 | 67.46 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.11 | 66.96 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.16 | 67.19 | 16.62 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.39 | 67.52 | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.44 | 67.21 | 16.54 |      | 150.0 |         |
|           |                                                | Z | 5.52 | 67.50 | 16.78 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.21 | 67.64 | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.22 | 16.46 |      | 150.0 |         |
|           |                                                | Z | 5.29 | 67.47 | 16.68 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.08 | 67.30 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.08 | 66.84 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.14 | 67.11 | 16.59 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.47 | 67.73 | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.54 | 67.49 | 16.69 |      | 150.0 |         |
|           |                                                | Z | 5.61 | 67.75 | 16.91 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.20 | 67.59 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 67.16 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.26 | 67.41 | 16.66 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.44 | 68.23 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.33 | 67.14 | 15.77 |      | 150.0 |         |
|           |                                                | Z | 3.44 | 67.84 | 16.28 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.56 | 68.31 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.45 | 67.25 | 15.95 |      | 150.0 |         |
|           |                                                | Z | 3.57 | 67.91 | 16.44 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.25 | 71.50 | 17.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.91 | 68.03 | 15.35 |      | 150.0 |         |
|           |                                                | Z | 2.16 | 70.17 | 16.69 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.76 | 71.42 | 17.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.39 | 68.25 | 15.48 |      | 150.0 |         |
|           |                                                | Z | 2.64 | 70.08 | 16.68 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.35 | 68.05 | 14.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.18 | 66.04 | 13.91 |      | 150.0 |         |
|           |                                                | Z | 2.34 | 67.23 | 14.80 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.36 | 67.30 | 12.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.12 | 64.08 | 11.11 |      | 150.0 |         |
|           |                                                | Z | 1.36 | 66.73 | 12.92 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.05 | 66.97 | 11.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.09 | 66.87 | 12.31 |      | 150.0 |         |
|           |                                                | Z | 2.14 | 67.42 | 12.70 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 2.62 | 69.79 | 13.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.51 | 69.23 | 13.56 |      | 150.0 |         |
|           |                                                | Z | 2.66 | 70.25 | 14.16 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.98 | 68.42 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.85 | 67.06 | 15.68 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 67.94 | 16.32 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.10 | 68.35 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.97 | 67.05 | 15.75 |      | 150.0 |         |
|           |                                            | Z | 3.10 | 67.86 | 16.35 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.73 | 79.63 | 22.36 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.22 | 77.38 | 21.36 |      | 65.0  |         |
|           |                                            | Z | 5.82 | 76.46 | 21.00 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.54 | 73.78 | 20.36 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.45 | 72.82 | 19.92 |      | 65.0  |         |
|           |                                            | Z | 5.18 | 72.08 | 19.62 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.91 | 74.77 | 21.16 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.80 | 73.76 | 20.72 |      | 65.0  |         |
|           |                                            | Z | 5.51 | 72.99 | 20.42 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.48 | 71.44 | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.20 | 68.63 | 16.05 |      | 150.0 |         |
|           |                                            | Z | 2.45 | 70.58 | 17.24 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.77 | 69.86 | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54 | 67.72 | 15.89 |      | 150.0 |         |
|           |                                            | Z | 2.72 | 68.98 | 16.76 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.16 | 72.20 | 17.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.76 | 68.05 | 15.09 |      | 150.0 |         |
|           |                                            | Z | 2.05 | 70.66 | 16.69 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.27 | 69.22 | 15.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.00 | 66.48 | 13.85 |      | 150.0 |         |
|           |                                            | Z | 2.21 | 68.13 | 15.00 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.92 | 69.98 | 17.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.71 | 67.92 | 16.08 |      | 150.0 |         |
|           |                                            | Z | 2.88 | 69.12 | 16.92 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.41 | 69.84 | 15.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.10 | 66.93 | 14.15 |      | 150.0 |         |
|           |                                            | Z | 2.35 | 68.72 | 15.36 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.89 | 70.19 | 17.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.70 | 68.35 | 16.09 |      | 150.0 |         |
|           |                                            | Z | 2.88 | 69.59 | 16.90 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.00 | 68.36 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87 | 66.97 | 15.67 |      | 150.0 |         |
|           |                                            | Z | 2.99 | 67.81 | 16.30 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.11 | 68.50 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.98 | 67.10 | 15.78 |      | 150.0 |         |
|           |                                            | Z | 3.10 | 67.90 | 16.38 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.72 | 70.89 | 19.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.67 | 69.70 | 19.28 |      | 150.0 |         |
|           |                                            | Z | 3.62 | 69.60 | 19.26 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.89 | 74.90 | 20.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.56 | 72.45 | 19.62 |      | 150.0 |         |
|           |                                            | Z | 4.46 | 72.29 | 19.59 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.65  | 78.00  | 22.32 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.11  | 74.92  | 21.06 |      | 150.0 |         |
|           |                                            | Z | 5.03  | 74.89  | 21.10 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.21  | 70.99  | 19.94 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.13  | 69.60  | 19.22 |      | 150.0 |         |
|           |                                            | Z | 3.04  | 69.55  | 19.25 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 5.20  | 79.96  | 23.31 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.44  | 75.73  | 21.57 |      | 150.0 |         |
|           |                                            | Z | 4.36  | 76.12  | 21.82 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.92  | 73.95  | 19.84 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.57  | 71.07  | 18.57 |      | 150.0 |         |
|           |                                            | Z | 3.42  | 70.98  | 18.56 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 8.65  | 93.75  | 29.69 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.02  | 90.08  | 28.24 |      | 65.0  |         |
|           |                                            | Z | 6.86  | 87.22  | 26.94 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 34.56 | 113.88 | 33.23 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 16.66 | 99.21  | 29.19 |      | 65.0  |         |
|           |                                            | Z | 12.68 | 94.37  | 27.34 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 17.89 | 100.71 | 28.93 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 11.68 | 91.66  | 26.27 |      | 65.0  |         |
|           |                                            | Z | 7.88  | 85.16  | 23.78 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.16  | 70.61  | 19.66 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.09  | 69.23  | 18.94 |      | 150.0 |         |
|           |                                            | Z | 2.99  | 69.15  | 18.95 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 5.21  | 80.00  | 23.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.45  | 75.76  | 21.59 |      | 150.0 |         |
|           |                                            | Z | 4.36  | 76.14  | 21.83 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.19  | 70.79  | 19.76 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.12  | 69.41  | 19.05 |      | 150.0 |         |
|           |                                            | Z | 3.02  | 69.35  | 19.07 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 5.14  | 79.69  | 23.18 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.39  | 75.47  | 21.44 |      | 150.0 |         |
|           |                                            | Z | 4.29  | 75.79  | 21.66 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.49  | 76.75  | 21.41 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.95  | 73.19  | 19.90 |      | 150.0 |         |
|           |                                            | Z | 3.82  | 73.28  | 19.99 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.91  | 73.86  | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.56  | 70.98  | 18.51 |      | 150.0 |         |
|           |                                            | Z | 3.41  | 70.87  | 18.49 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.18  | 70.77  | 19.75 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.11  | 69.39  | 19.04 |      | 150.0 |         |
|           |                                            | Z | 3.02  | 69.33  | 19.06 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 5.13  | 79.66  | 23.17 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.38  | 75.45  | 21.42 |      | 150.0 |         |
|           |                                            | Z | 4.29  | 75.77  | 21.64 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.90  | 73.83  | 19.77 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.55  | 70.96  | 18.50 |      | 150.0 |         |
|           |                                            | Z | 3.40  | 70.85  | 18.48 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.20 | 70.82 | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.12 | 69.44 | 19.07 |      | 150.0 |         |
|           |                                               | Z | 3.03 | 69.38 | 19.09 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 5.16 | 79.75 | 23.21 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 75.52 | 21.47 |      | 150.0 |         |
|           |                                               | Z | 4.31 | 75.85 | 21.69 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.92 | 73.91 | 19.81 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.57 | 71.02 | 18.54 |      | 150.0 |         |
|           |                                               | Z | 3.42 | 70.92 | 18.52 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.21 | 70.89 | 19.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.13 | 69.49 | 19.13 |      | 150.0 |         |
|           |                                               | Z | 3.04 | 69.42 | 19.15 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 5.40 | 80.72 | 23.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.57 | 76.31 | 21.90 |      | 150.0 |         |
|           |                                               | Z | 4.50 | 76.77 | 22.18 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 4.04 | 74.49 | 20.14 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.65 | 71.49 | 18.83 |      | 150.0 |         |
|           |                                               | Z | 3.51 | 71.43 | 18.84 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.52 | 66.93 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.49 | 66.31 | 16.09 |      | 150.0 |         |
|           |                                               | Z | 4.55 | 66.58 | 16.35 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.68 | 67.24 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.67 | 66.65 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.74 | 66.93 | 16.47 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.72 | 67.26 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.71 | 66.68 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.78 | 66.95 | 16.48 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.52 | 66.99 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.50 | 66.39 | 16.11 |      | 150.0 |         |
|           |                                               | Z | 4.56 | 66.67 | 16.38 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.70 | 67.25 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.68 | 66.67 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.76 | 66.95 | 16.48 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.73 | 67.28 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.72 | 66.70 | 16.24 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.97 | 16.49 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.47 | 67.02 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.45 | 66.40 | 16.07 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 66.69 | 16.34 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.69 | 67.22 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.68 | 66.65 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 66.93 | 16.48 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.73 | 67.20 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.72 | 66.63 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.90 | 16.48 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.06 | 67.31 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.05 | 66.85 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 5.12 | 67.12 | 16.59 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.36  | 67.52  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.37  | 67.09  | 16.50 |      | 150.0 |         |
|           |                                           | Z | 5.44  | 67.35  | 16.73 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.11  | 67.43  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.10  | 66.96  | 16.33 |      | 150.0 |         |
|           |                                           | Z | 5.16  | 67.22  | 16.57 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.84  | 66.92  | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.74  | 65.72  | 15.18 |      | 150.0 |         |
|           |                                           | Z | 2.83  | 66.35  | 15.73 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 40.01 | 116.73 | 34.09 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.15 | 100.91 | 29.81 |      | 65.0  |         |
|           |                                           | Z | 13.80 | 96.00  | 27.96 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 33.98 | 111.47 | 31.92 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.25 | 97.33  | 28.09 |      | 65.0  |         |
|           |                                           | Z | 12.25 | 92.38  | 26.18 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 12.76 | 101.92 | 32.39 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 11.08 | 97.03  | 30.67 |      | 65.0  |         |
|           |                                           | Z | 8.72  | 92.35  | 28.82 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 34.89 | 114.03 | 33.28 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.78 | 99.31  | 29.23 |      | 65.0  |         |
|           |                                           | Z | 12.79 | 94.48  | 27.39 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 29.80 | 109.06 | 31.18 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.07 | 95.92  | 27.58 |      | 65.0  |         |
|           |                                           | Z | 11.39 | 91.05  | 25.67 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 11.93 | 100.43 | 31.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.46 | 95.77  | 30.17 |      | 65.0  |         |
|           |                                           | Z | 8.25  | 91.19  | 28.34 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 34.85 | 114.02 | 33.28 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.75 | 99.30  | 29.23 |      | 65.0  |         |
|           |                                           | Z | 12.76 | 94.46  | 27.38 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 29.71 | 109.03 | 31.18 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.04 | 95.90  | 27.57 |      | 65.0  |         |
|           |                                           | Z | 11.37 | 91.03  | 25.66 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 11.28 | 99.11  | 31.30 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.96  | 94.62  | 29.67 |      | 65.0  |         |
|           |                                           | Z | 7.88  | 90.12  | 27.85 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 35.01 | 114.12 | 33.31 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.79 | 99.35  | 29.25 |      | 65.0  |         |
|           |                                           | Z | 12.78 | 94.51  | 27.39 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 30.34 | 109.34 | 31.25 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.23 | 96.08  | 27.62 |      | 65.0  |         |
|           |                                           | Z | 11.50 | 91.19  | 25.70 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 11.97 | 100.55 | 31.88 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.49 | 95.87  | 30.21 |      | 65.0  |         |
|           |                                           | Z | 8.27  | 91.27  | 28.37 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 34.79 | 114.01 | 33.27 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.72 | 99.28  | 29.22 |      | 65.0  |         |
|           |                                           | Z | 12.73 | 94.44  | 27.37 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 29.60 | 108.99 | 31.17 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 15.00 | 95.87  | 27.57 |      | 65.0 |         |
|           |                                            | Z | 11.33 | 91.00  | 25.65 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 11.93 | 100.49 | 31.86 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.45 | 95.81  | 30.19 |      | 65.0 |         |
|           |                                            | Z | 8.24  | 91.21  | 28.35 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 8.35  | 82.82  | 26.15 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.85  | 80.00  | 25.06 |      | 65.0 |         |
|           |                                            | Z | 7.12  | 78.08  | 24.14 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 7.34  | 80.10  | 24.97 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.01  | 77.55  | 23.95 |      | 65.0 |         |
|           |                                            | Z | 6.48  | 76.07  | 23.18 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.72  | 75.88  | 24.13 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.69  | 74.41  | 23.47 |      | 65.0 |         |
|           |                                            | Z | 5.34  | 73.16  | 22.77 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 5.95  | 76.49  | 18.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.01  | 76.53  | 19.26 |      | 65.0 |         |
|           |                                            | Z | 5.17  | 74.41  | 18.34 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 5.70  | 75.57  | 18.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.87  | 75.85  | 18.93 |      | 65.0 |         |
|           |                                            | Z | 5.09  | 73.88  | 18.06 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 6.32  | 81.66  | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.36  | 78.51  | 20.04 |      | 65.0 |         |
|           |                                            | Z | 4.95  | 77.75  | 19.89 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.91  | 74.53  | 18.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.72  | 73.31  | 18.63 |      | 65.0 |         |
|           |                                            | Z | 4.45  | 72.67  | 18.48 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.84  | 73.73  | 18.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.73  | 72.75  | 18.36 |      | 65.0 |         |
|           |                                            | Z | 4.48  | 72.15  | 18.22 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 7.86  | 85.71  | 23.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.42  | 81.53  | 22.10 |      | 65.0 |         |
|           |                                            | Z | 5.85  | 80.41  | 21.79 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.72  | 76.77  | 21.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.50  | 75.36  | 21.09 |      | 65.0 |         |
|           |                                            | Z | 5.18  | 74.52  | 20.81 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.38  | 74.33  | 20.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.26  | 73.19  | 19.77 |      | 65.0 |         |
|           |                                            | Z | 4.98  | 72.41  | 19.49 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.31  | 83.67  | 23.90 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.42  | 80.44  | 22.59 |      | 65.0 |         |
|           |                                            | Z | 5.91  | 79.28  | 22.20 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.42  | 73.21  | 20.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.32  | 72.22  | 19.66 |      | 65.0 |         |
|           |                                            | Z | 5.05  | 71.46  | 19.36 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.76  | 74.13  | 20.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.65  | 73.11  | 20.38 |      | 65.0 |         |
|           |                                            | Z | 5.37  | 72.34  | 20.09 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.31 | 78.67 | 22.21 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.88 | 76.59 | 21.28 |      | 65.0 |         |
|           |                                             | Z | 5.50 | 75.63 | 20.92 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.17 | 70.99 | 15.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.68 | 72.52 | 16.53 |      | 65.0 |         |
|           |                                             | Z | 4.05 | 70.72 | 15.69 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 3.99 | 70.02 | 14.54 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.53 | 71.65 | 16.05 |      | 65.0 |         |
|           |                                             | Z | 3.98 | 70.06 | 15.30 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 4.17 | 74.74 | 17.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.99 | 73.66 | 17.24 |      | 65.0 |         |
|           |                                             | Z | 3.75 | 73.28 | 17.24 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.25 | 75.45 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.04 | 74.09 | 19.53 |      | 65.0 |         |
|           |                                             | Z | 4.75 | 73.36 | 19.32 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.25 | 75.04 | 19.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.07 | 73.83 | 19.42 |      | 65.0 |         |
|           |                                             | Z | 4.79 | 73.13 | 19.23 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 7.02 | 83.49 | 23.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.03 | 80.05 | 21.95 |      | 65.0 |         |
|           |                                             | Z | 5.52 | 78.93 | 21.61 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.71 | 76.71 | 21.58 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.49 | 75.31 | 21.04 |      | 65.0 |         |
|           |                                             | Z | 5.17 | 74.48 | 20.77 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.37 | 74.30 | 20.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.25 | 73.17 | 19.76 |      | 65.0 |         |
|           |                                             | Z | 4.97 | 72.39 | 19.48 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 7.22 | 83.42 | 23.78 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.36 | 80.23 | 22.49 |      | 65.0 |         |
|           |                                             | Z | 5.85 | 79.08 | 22.10 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.54 | 73.78 | 20.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.45 | 72.82 | 19.93 |      | 65.0 |         |
|           |                                             | Z | 5.18 | 72.08 | 19.62 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.91 | 74.76 | 21.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.80 | 73.74 | 20.71 |      | 65.0 |         |
|           |                                             | Z | 5.51 | 72.97 | 20.41 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.72 | 79.57 | 22.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.21 | 77.33 | 21.33 |      | 65.0 |         |
|           |                                             | Z | 5.81 | 76.41 | 20.98 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.12 | 73.48 | 20.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.06 | 72.68 | 20.24 |      | 65.0 |         |
|           |                                             | Z | 5.79 | 71.98 | 19.95 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.09 | 73.02 | 20.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.03 | 72.24 | 20.11 |      | 65.0 |         |
|           |                                             | Z | 5.76 | 71.54 | 19.81 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.34 | 76.06 | 21.04 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.08 | 74.61 | 20.35 |      | 65.0 |         |
|           |                                             | Z | 5.76 | 73.86 | 20.04 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.66   | 67.57  | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.50   | 65.96  | 14.99 |      | 150.0 |         |
|           |                                                                    | Z | 2.60   | 66.71  | 15.61 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.84   | 70.99  | 17.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.51   | 67.19  | 14.97 |      | 150.0 |         |
|           |                                                                    | Z | 1.71   | 69.51  | 16.45 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.87   | 60.83  | 6.38  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.14   | 61.49  | 7.23  |      | 50.0  |         |
|           |                                                                    | Z | 2.09   | 61.24  | 7.00  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 4.51   | 72.29  | 15.08 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.92   | 73.27  | 16.01 |      | 50.0  |         |
|           |                                                                    | Z | 4.51   | 71.94  | 15.29 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 4.67   | 72.70  | 15.31 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.09   | 73.65  | 16.22 |      | 50.0  |         |
|           |                                                                    | Z | 4.68   | 72.33  | 15.51 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.16   | 74.98  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.28   | 66.95  | 12.79 |      | 150.0 |         |
|           |                                                                    | Z | 1.74   | 71.36  | 15.26 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.17   | 71.53  | 15.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.69   | 64.03  | 10.95 |      | 150.0 |         |
|           |                                                                    | Z | 0.91   | 67.77  | 13.37 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 4.42   | 90.78  | 22.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.85   | 67.35  | 12.97 |      | 150.0 |         |
|           |                                                                    | Z | 1.67   | 76.97  | 17.67 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 136.59 | 34.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.33   | 73.34  | 16.12 |      | 150.0 |         |
|           |                                                                    | Z | 8.78   | 100.96 | 25.89 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 11.43  | 89.42  | 25.13 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.12   | 84.99  | 23.86 |      | 50.0  |         |
|           |                                                                    | Z | 8.14   | 82.83  | 22.95 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.97   | 71.63  | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.68   | 69.19  | 16.24 |      | 150.0 |         |
|           |                                                                    | Z | 2.93   | 70.87  | 17.24 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.89   | 71.32  | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.46   | 66.65  | 13.41 |      | 150.0 |         |
|           |                                                                    | Z | 1.78   | 69.74  | 15.31 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 3.28   | 72.61  | 15.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.80   | 70.26  | 14.85 |      | 150.0 |         |
|           |                                                                    | Z | 2.86   | 70.82  | 15.21 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.02   | 65.69  | 11.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.07   | 65.40  | 11.81 |      | 150.0 |         |
|           |                                                                    | Z | 2.07   | 65.58  | 12.00 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.72   | 65.85  | 17.74 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.78   | 65.42  | 17.53 |      | 50.0  |         |
|           |                                                                    | Z | 4.74   | 65.16  | 17.51 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.13   | 66.14  | 18.27 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.22   | 65.77  | 18.07 |      | 50.0  |         |
|           |                                                                    | Z | 5.18   | 65.64  | 18.13 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.87 | 65.75 | 18.09 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.97 | 65.43 | 17.92 |       | 50.0  |         |
|           |                                                                     | Z | 4.93 | 65.28 | 17.98 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.70 | 65.69 | 17.62 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.76 | 65.25 | 17.39 |       | 50.0  |         |
|           |                                                                     | Z | 4.74 | 65.17 | 17.49 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.27 | 67.35 | 19.54 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 67.57 | 19.71 |       | 35.0  |         |
|           |                                                                     | Z | 4.33 | 66.90 | 19.56 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.60 | 66.41 | 19.14 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.75 | 66.45 | 19.22 |       | 35.0  |         |
|           |                                                                     | Z | 4.67 | 65.98 | 19.11 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.49 | 66.55 | 19.10 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 66.69 | 19.22 |       | 35.0  |         |
|           |                                                                     | Z | 4.58 | 66.22 | 19.12 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.47 | 66.75 | 19.25 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.63 | 66.87 | 19.34 |       | 35.0  |         |
|           |                                                                     | Z | 4.54 | 66.36 | 19.23 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.65 | 66.61 | 19.28 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.82 | 66.71 | 19.38 |       | 35.0  |         |
|           |                                                                     | Z | 4.74 | 66.25 | 19.28 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.54 | 66.47 | 19.12 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 66.52 | 19.20 |       | 35.0  |         |
|           |                                                                     | Z | 4.62 | 66.04 | 19.09 |       | 35.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.35 | 70.71 | 17.27 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.03 | 68.44 | 15.91 |       | 150.0 |         |
|           |                                                                     | Z | 3.29 | 69.99 | 16.82 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 4.14 | 76.66 | 17.56 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.85 | 70.75 | 14.87 |       | 70.0  |         |
|           |                                                                     | Z | 2.37 | 69.11 | 14.12 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 8.58 | 90.79 | 25.43 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 4.78 | 79.72 | 21.17 |       | 30.0  |         |
|           |                                                                     | Z | 4.55 | 79.07 | 20.77 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.10 | 65.06 | 16.35 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.98 | 63.13 | 14.77 |       | 150.0 |         |
|           |                                                                     | Z | 1.01 | 64.16 | 15.80 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.56 | 66.93 | 16.52 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.38 | 16.23 |       | 150.0 |         |
|           |                                                                     | Z | 4.60 | 66.58 | 16.44 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.56 | 66.93 | 16.52 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.38 | 16.23 |       | 150.0 |         |
|           |                                                                     | Z | 4.60 | 66.58 | 16.44 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.67 | 67.29 | 16.53 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.67 | 66.71 | 16.20 |       | 150.0 |         |
|           |                                                                     | Z | 4.74 | 66.99 | 16.46 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.37 | 67.39 | 16.65 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.39 | 66.99 | 16.43 |       | 150.0 |         |
|           |                                                                     | Z | 5.43 | 67.15 | 16.60 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.62   | 67.65  | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.63   | 67.27  | 16.42 |      | 150.0 |         |
|           |                                                                                 | Z | 5.70   | 67.53  | 16.64 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 2.16   | 74.98  | 16.58 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.28   | 66.95  | 12.79 |      | 115.0 |         |
|           |                                                                                 | Z | 1.74   | 71.36  | 15.26 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 2.16   | 74.98  | 16.58 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.28   | 66.95  | 12.79 |      | 115.0 |         |
|           |                                                                                 | Z | 1.74   | 71.36  | 15.26 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 119.17 | 29.16 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 47.04  | 112.86 | 29.01 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 124.79 | 31.86 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 123.22 | 30.54 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 123.25 | 30.93 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 121.48 | 29.86 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.03   | 64.28  | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.91   | 62.36  | 14.20 |      | 150.0 |         |
|           |                                                                                 | Z | 0.95   | 63.47  | 15.29 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.52   | 66.97  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.49   | 66.36  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.63  | 16.41 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.52   | 66.97  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.49   | 66.36  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.63  | 16.41 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.51   | 67.16  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.48   | 66.50  | 16.16 |      | 150.0 |         |
|           |                                                                                 | Z | 4.55   | 66.78  | 16.42 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.53   | 67.09  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.50   | 66.46  | 16.17 |      | 150.0 |         |
|           |                                                                                 | Z | 4.57   | 66.73  | 16.43 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.64   | 67.06  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.63   | 66.47  | 16.19 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 66.73  | 16.44 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.80   | 67.37  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.80   | 66.81  | 16.31 |      | 150.0 |         |
|           |                                                                                 | Z | 4.87   | 67.08  | 16.56 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.73   | 67.33  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.72   | 66.75  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 4.79   | 67.03  | 16.53 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.32   | 67.53  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.19  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 5.41   | 67.42  | 16.74 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.34   | 67.60  | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.21  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 5.42   | 67.44  | 16.74 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.34   | 67.55  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.36   | 67.16  | 16.50 |      | 150.0 |         |
|           |                                                                | Z | 5.42   | 67.39  | 16.71 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.45   | 72.34  | 18.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.23   | 70.61  | 18.19 |      | 150.0 |         |
|           |                                                                | Z | 4.46   | 71.63  | 18.92 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.21   | 67.67  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.18   | 66.90  | 16.13 |      | 150.0 |         |
|           |                                                                | Z | 4.27   | 67.27  | 16.47 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.50   | 67.44  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.48   | 66.79  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 4.56   | 67.10  | 16.50 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.74   | 67.37  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.73   | 66.79  | 16.30 |      | 150.0 |         |
|           |                                                                | Z | 4.81   | 67.07  | 16.56 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.67   | 73.61  | 19.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.33   | 71.42  | 18.13 |      | 150.0 |         |
|           |                                                                | Z | 4.63   | 72.69  | 18.98 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 122.96 | 30.42 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 123.03 | 30.82 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 121.24 | 29.74 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.53   | 67.93  | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.46   | 66.82  | 15.40 |      | 150.0 |         |
|           |                                                                | Z | 3.58   | 67.41  | 15.91 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.05   | 67.46  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.01   | 66.66  | 15.98 |      | 150.0 |         |
|           |                                                                | Z | 4.10   | 67.04  | 16.33 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.32   | 67.29  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.29   | 66.60  | 16.11 |      | 150.0 |         |
|           |                                                                | Z | 4.36   | 66.93  | 16.41 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.51   | 67.16  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.48   | 66.53  | 16.14 |      | 150.0 |         |
|           |                                                                | Z | 4.55   | 66.83  | 16.41 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.43   | 68.17  | 15.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.35   | 66.96  | 14.99 |      | 150.0 |         |
|           |                                                                | Z | 3.50   | 67.67  | 15.58 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.19   | 68.04  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.21   | 67.72  | 16.67 |      | 150.0 |         |
|           |                                                                | Z | 6.27   | 67.93  | 16.85 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.78   | 65.60  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.73   | 64.97  | 15.86 |      | 150.0 |         |
|           |                                                                | Z | 3.77   | 65.24  | 16.13 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.28   | 72.82  | 18.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.93   | 70.47  | 17.43 |      | 150.0 |         |
|           |                                                                | Z | 4.19   | 71.65  | 18.27 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.16   | 69.26  | 18.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.12   | 68.34  | 18.30 |      | 150.0 |         |
|           |                                                                | Z | 5.26   | 68.82  | 18.73 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.22   | 75.04  | 19.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.79   | 67.36  | 15.18 |      | 150.0 |         |
|           |                                                                   | Z | 1.04   | 72.67  | 18.32 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 129.47 | 33.43 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 127.28 | 32.86 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 125.03 | 31.59 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.27   | 72.28  | 13.39 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.56   | 75.48  | 15.26 |      | 80.0  |         |
|           |                                                                   | Z | 1.47   | 64.20  | 10.41 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.15   | 62.24  | 8.85  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.75   | 65.10  | 10.83 |      | 80.0  |         |
|           |                                                                   | Z | 1.05   | 60.61  | 8.20  |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 126.26 | 31.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.34 | 31.34 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.62 | 29.86 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.21   | 68.61  | 12.00 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.08   | 71.39  | 13.77 |      | 80.0  |         |
|           |                                                                   | Z | 1.32   | 63.14  | 9.86  |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.07   | 61.51  | 8.46  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.57   | 63.98  | 10.28 |      | 80.0  |         |
|           |                                                                   | Z | 1.00   | 60.20  | 7.94  |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 126.63 | 31.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.65 | 31.47 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.95 | 30.00 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.42   | 69.48  | 12.34 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.36   | 72.31  | 14.12 |      | 80.0  |         |
|           |                                                                   | Z | 1.35   | 63.38  | 9.99  |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.07   | 61.53  | 8.46  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.57   | 64.00  | 10.29 |      | 80.0  |         |
|           |                                                                   | Z | 1.00   | 60.20  | 7.94  |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 126.66 | 31.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.68 | 31.48 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.97 | 30.00 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.38   | 69.29  | 12.26 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.31   | 72.16  | 14.05 |      | 80.0  |         |
|           |                                                                   | Z | 1.34   | 63.31  | 9.94  |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.06   | 61.47  | 8.42  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.55   | 63.94  | 10.24 |      | 80.0  |         |
|           |                                                                   | Z | 0.99   | 60.16  | 7.90  |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 126.62 | 31.92 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.64 | 31.46 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.92 | 29.98 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.35   | 69.21  | 12.23 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.28   | 72.07  | 14.02 |      | 80.0  |         |
|           |                                                                   | Z | 1.33   | 63.28  | 9.92  |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.05   | 61.45  | 8.41  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.55   | 63.91  | 10.23 |      | 80.0  |         |
|           |                                                                   | Z | 0.99   | 60.15  | 7.90  |      | 80.0  |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 2.18  | 68.48  | 11.93 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.05  | 71.31  | 13.72 |      | 80.0 |         |
|           |                                                                     | Z | 1.30  | 63.05  | 9.80  |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.05  | 61.39  | 8.37  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.54  | 63.84  | 10.19 |      | 80.0 |         |
|           |                                                                     | Z | 0.99  | 60.11  | 7.87  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 22.66 | 104.04 | 28.31 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.52 | 91.75  | 25.16 |      | 80.0 |         |
|           |                                                                     | Z | 7.12  | 85.84  | 23.15 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 18.76 | 93.01  | 22.77 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.38  | 84.15  | 20.83 |      | 80.0 |         |
|           |                                                                     | Z | 6.29  | 78.88  | 18.94 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 10.50 | 84.61  | 19.86 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.10  | 79.67  | 18.96 |      | 80.0 |         |
|           |                                                                     | Z | 4.94  | 75.07  | 17.20 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.07  | 77.55  | 18.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.75  | 71.25  | 16.55 |      | 80.0 |         |
|           |                                                                     | Z | 2.95  | 72.71  | 17.37 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.36  | 76.63  | 17.79 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.22  | 76.19  | 18.27 |      | 80.0 |         |
|           |                                                                     | Z | 4.21  | 73.47  | 17.21 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.71  | 74.71  | 17.09 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.77  | 74.70  | 17.72 |      | 80.0 |         |
|           |                                                                     | Z | 3.96  | 72.36  | 16.79 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.16  | 78.26  | 20.41 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.12  | 72.88  | 18.19 |      | 80.0 |         |
|           |                                                                     | Z | 3.23  | 73.87  | 18.78 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.46  | 71.60  | 17.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.98  | 68.63  | 15.94 |      | 80.0 |         |
|           |                                                                     | Z | 3.03  | 69.17  | 16.37 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.40  | 70.94  | 16.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.98  | 68.26  | 15.77 |      | 80.0 |         |
|           |                                                                     | Z | 3.03  | 68.76  | 16.19 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.89  | 75.14  | 20.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.40  | 72.05  | 18.54 |      | 80.0 |         |
|           |                                                                     | Z | 3.45  | 72.57  | 18.88 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.51  | 70.20  | 17.93 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.28  | 68.37  | 17.06 |      | 80.0 |         |
|           |                                                                     | Z | 3.27  | 68.52  | 17.26 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.58  | 69.92  | 17.81 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.38  | 68.21  | 17.01 |      | 80.0 |         |
|           |                                                                     | Z | 3.36  | 68.32  | 17.19 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.92  | 72.56  | 19.10 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.62  | 70.46  | 18.01 |      | 80.0 |         |
|           |                                                                     | Z | 3.62  | 70.74  | 18.23 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.77  | 68.93  | 17.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.64  | 67.67  | 17.05 |      | 80.0 |         |
|           |                                                                     | Z | 3.60  | 67.70  | 17.16 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.82 | 68.75 | 17.61 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.71 | 67.55 | 17.01 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 67.56 | 17.12 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.37 | 74.54 | 19.74 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.94 | 72.05 | 18.49 |      | 80.0 |         |
|           |                                                                      | Z | 3.99 | 72.51 | 18.77 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.81 | 69.34 | 17.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.67 | 68.08 | 17.25 |      | 80.0 |         |
|           |                                                                      | Z | 3.64 | 68.16 | 17.38 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.87 | 68.98 | 17.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.75 | 67.81 | 17.17 |      | 80.0 |         |
|           |                                                                      | Z | 3.72 | 67.85 | 17.28 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 2.51 | 70.53 | 15.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.89 | 66.41 | 13.46 |      | 80.0 |         |
|           |                                                                      | Z | 2.04 | 67.84 | 14.35 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.46 | 61.52 | 9.68  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.55 | 61.46 | 10.01 |      | 80.0 |         |
|           |                                                                      | Z | 1.62 | 62.12 | 10.57 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.40 | 60.84 | 9.17  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.52 | 61.02 | 9.63  |      | 80.0 |         |
|           |                                                                      | Z | 1.59 | 61.62 | 10.17 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.90 | 76.38 | 20.05 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.17 | 72.17 | 18.21 |      | 80.0 |         |
|           |                                                                      | Z | 3.23 | 72.85 | 18.65 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.50 | 71.10 | 17.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.12 | 68.58 | 16.40 |      | 80.0 |         |
|           |                                                                      | Z | 3.14 | 68.92 | 16.72 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.54 | 70.86 | 17.28 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.18 | 68.44 | 16.28 |      | 80.0 |         |
|           |                                                                      | Z | 3.20 | 68.76 | 16.60 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.83 | 74.89 | 19.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.36 | 71.83 | 18.43 |      | 80.0 |         |
|           |                                                                      | Z | 3.40 | 72.34 | 18.77 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.49 | 70.09 | 17.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.27 | 68.27 | 17.00 |      | 80.0 |         |
|           |                                                                      | Z | 3.25 | 68.42 | 17.20 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.56 | 69.81 | 17.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.36 | 68.11 | 16.95 |      | 80.0 |         |
|           |                                                                      | Z | 3.34 | 68.22 | 17.13 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.33 | 74.37 | 19.66 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.91 | 71.89 | 18.41 |      | 80.0 |         |
|           |                                                                      | Z | 3.95 | 72.35 | 18.69 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.79 | 69.27 | 17.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.66 | 68.02 | 17.21 |      | 80.0 |         |
|           |                                                                      | Z | 3.63 | 68.09 | 17.34 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.86 | 68.91 | 17.74 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.74 | 67.74 | 17.13 |      | 80.0  |         |
|           |                                                                     | Z | 3.71 | 67.78 | 17.24 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.53 | 72.39 | 18.83 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.22 | 70.56 | 17.87 |      | 80.0  |         |
|           |                                                                     | Z | 4.23 | 70.82 | 18.05 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.24 | 68.74 | 17.72 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.14 | 67.79 | 17.20 |      | 80.0  |         |
|           |                                                                     | Z | 4.11 | 67.81 | 17.28 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.28 | 68.44 | 17.62 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.19 | 67.53 | 17.14 |      | 80.0  |         |
|           |                                                                     | Z | 4.15 | 67.52 | 17.20 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.88 | 74.48 | 19.52 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.42 | 72.17 | 18.36 |      | 80.0  |         |
|           |                                                                     | Z | 4.47 | 72.62 | 18.62 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.13 | 69.07 | 17.87 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.03 | 68.07 | 17.31 |      | 80.0  |         |
|           |                                                                     | Z | 4.00 | 68.14 | 17.42 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.14 | 68.57 | 17.70 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.05 | 67.64 | 17.19 |      | 80.0  |         |
|           |                                                                     | Z | 4.01 | 67.67 | 17.27 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.99 | 64.60 | 15.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.87 | 62.53 | 14.23 |      | 150.0 |         |
|           |                                                                     | Z | 0.91 | 63.76 | 15.41 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.57 | 90.52 | 26.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.52 | 70.36 | 15.95 |      | 150.0 |         |
|           |                                                                     | Z | 1.41 | 88.12 | 24.00 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.90 | 68.15 | 17.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.72 | 64.40 | 14.65 |      | 150.0 |         |
|           |                                                                     | Z | 0.81 | 67.00 | 16.64 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.51 | 67.06 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.49 | 66.43 | 16.13 |      | 150.0 |         |
|           |                                                                     | Z | 4.55 | 66.71 | 16.39 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.69 | 67.26 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.68 | 66.69 | 16.26 |      | 150.0 |         |
|           |                                                                     | Z | 4.75 | 66.97 | 16.52 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.54 | 67.24 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.53 | 66.65 | 16.17 |      | 150.0 |         |
|           |                                                                     | Z | 4.61 | 66.95 | 16.45 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.48 | 67.24 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 66.64 | 16.15 |      | 150.0 |         |
|           |                                                                     | Z | 4.54 | 66.96 | 16.44 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.54 | 67.36 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.52 | 66.71 | 16.23 |      | 150.0 |         |
|           |                                                                     | Z | 4.59 | 67.00 | 16.50 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.43 | 67.25 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.40 | 66.56 | 16.07 |      | 150.0 |         |
|           |                                                            | Z | 4.47 | 66.87 | 16.35 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.48 | 67.27 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.47 | 66.64 | 16.20 |      | 150.0 |         |
|           |                                                            | Z | 4.54 | 66.94 | 16.48 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.48 | 66.34 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.45 | 65.66 | 15.79 |      | 150.0 |         |
|           |                                                            | Z | 4.52 | 65.96 | 16.07 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.64 | 66.69 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.62 | 66.04 | 15.94 |      | 150.0 |         |
|           |                                                            | Z | 4.70 | 66.36 | 16.21 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.57 | 66.67 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.54 | 66.00 | 15.88 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 66.33 | 16.16 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.58 | 66.68 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.02 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.35 | 16.19 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.58 | 66.68 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.02 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.35 | 16.19 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.57 | 66.78 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.55 | 66.14 | 15.93 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.48 | 16.22 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.44 | 66.64 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 65.98 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.34 | 16.16 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.60 | 66.74 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.57 | 66.06 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.65 | 66.38 | 16.18 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.11 | 66.67 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 66.18 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.45 | 16.24 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.18 | 66.86 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.17 | 66.36 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.24 | 66.62 | 16.31 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.05 | 66.83 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.03 | 66.29 | 16.03 |      | 150.0 |         |
|           |                                                            | Z | 5.11 | 66.58 | 16.28 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.11 | 66.78 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 66.27 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.56 | 16.26 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.19 | 66.77 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.19 | 66.31 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.27 | 66.59 | 16.32 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.12 | 66.79 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.12 | 66.32 | 16.10 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.59 | 16.34 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.10 | 66.67 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.09 | 66.17 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.16 | 66.44 | 16.26 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.25 | 66.73 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.25 | 66.25 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.51 | 16.31 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.32 | 66.74 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.33 | 66.31 | 16.13 |      | 150.0 |         |
|           |                                                    | Z | 5.40 | 66.56 | 16.35 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.43 | 66.75 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.40 | 66.27 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.46 | 66.52 | 16.21 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.62 | 67.17 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 66.75 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.69 | 67.01 | 16.39 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.49 | 66.94 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.48 | 66.52 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.80 | 16.30 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.56 | 66.99 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.58 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.64 | 66.88 | 16.33 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.78 | 67.85 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.82 | 16.68 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 68.18 | 16.94 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.52 | 66.99 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.51 | 66.53 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.57 | 66.78 | 16.30 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.52 | 67.01 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.51 | 66.55 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.58 | 66.82 | 16.28 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.44 | 66.84 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.33 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.48 | 66.58 | 16.18 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.52 | 66.84 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.50 | 66.37 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.57 | 66.63 | 16.23 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.84 | 67.09 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 66.65 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.88 | 66.90 | 16.29 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.96 | 67.38 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.96 | 66.99 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 67.24 | 16.44 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.99 | 67.44 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 67.02 | 16.24 |      | 150.0 |         |
|           |                                                    | Z | 6.04 | 67.27 | 16.45 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.95 | 67.33 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 66.93 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 6.01 | 67.18 | 16.43 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.99  | 67.49  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.00  | 67.11  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 6.07  | 67.38  | 16.54 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.99  | 67.33  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.98  | 66.93  | 16.27 |      | 150.0 |         |
|           |                                                                 | Z | 6.05  | 67.18  | 16.48 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.91  | 67.31  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91  | 66.92  | 16.30 |      | 150.0 |         |
|           |                                                                 | Z | 5.97  | 67.17  | 16.51 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.02  | 67.64  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.06  | 67.37  | 16.53 |      | 150.0 |         |
|           |                                                                 | Z | 6.14  | 67.67  | 16.76 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.14  | 67.63  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.40  | 67.99  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 6.54  | 68.40  | 17.07 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.83  | 67.06  | 16.58 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81  | 66.51  | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 4.87  | 66.74  | 16.51 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.05  | 67.50  | 16.90 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.06  | 66.99  | 16.63 |      | 150.0 |         |
|           |                                                                 | Z | 5.12  | 67.24  | 16.86 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.88  | 67.35  | 16.72 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89  | 66.83  | 16.44 |      | 150.0 |         |
|           |                                                                 | Z | 4.95  | 67.08  | 16.66 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.92  | 67.77  | 17.10 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.91  | 67.24  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.52  | 17.05 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.79  | 67.12  | 16.48 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.79  | 66.58  | 16.18 |      | 150.0 |         |
|           |                                                                 | Z | 4.85  | 66.80  | 16.39 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.89  | 67.91  | 17.19 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86  | 67.30  | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.93  | 67.58  | 17.10 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.91  | 67.72  | 17.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.90  | 67.16  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 4.97  | 67.43  | 17.03 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.16  | 65.48  | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.04  | 63.66  | 15.10 |      | 130.0 |         |
|           |                                                                 | Z | 1.06  | 64.46  | 15.94 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.18  | 66.21  | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.05  | 64.22  | 15.46 |      | 130.0 |         |
|           |                                                                 | Z | 1.08  | 65.16  | 16.38 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 43.96 | 143.35 | 39.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.00  | 86.04  | 22.34 |      | 130.0 |         |
|           |                                                                 | Z | 20.42 | 126.57 | 34.62 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.46  | 74.85  | 21.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.15  | 70.20  | 18.44 |      | 130.0 |         |
|           |                                                                 | Z | 1.31  | 73.62  | 20.61 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.60 | 66.82 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.60 | 66.29 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.48 | 16.53 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.63 | 67.01 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.46 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.66 | 16.60 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.82 | 67.28 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.84 | 66.79 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.89 | 66.99 | 16.79 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.73 | 67.46 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.18 | 16.91 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.48 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.20 | 15.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.39 | 16.16 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.52 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.23 | 15.99 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.40 | 16.17 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.63 | 67.52 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.97 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.20 | 16.84 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.42 | 66.43 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 65.96 | 15.76 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.14 | 15.94 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.60 | 66.82 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.60 | 66.29 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.48 | 16.53 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.63 | 67.01 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.46 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.66 | 16.60 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.82 | 67.28 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.84 | 66.79 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.89 | 66.99 | 16.79 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.73 | 67.46 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.18 | 16.91 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.48 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.20 | 15.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.39 | 16.16 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.52 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.23 | 15.99 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.40 | 16.17 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.63 | 67.52 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.97 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.20 | 16.84 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.42 | 66.43 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 65.96 | 15.76 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.14 | 15.94 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.75 | 66.87 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.75 | 66.37 | 16.45 |      | 130.0 |         |
|           |                                                       | Z | 4.80 | 66.55 | 16.63 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.90 | 67.21 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.91 | 66.71 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 4.96 | 66.91 | 16.77 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.82 | 67.11 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.83 | 66.62 | 16.46 |      | 130.0 |         |
|           |                                                       | Z | 4.88 | 66.82 | 16.65 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.87 | 67.28 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.88 | 66.79 | 16.62 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 66.99 | 16.81 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.84 | 67.24 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.85 | 66.74 | 16.51 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 66.94 | 16.70 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.78 | 67.24 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.79 | 66.73 | 16.51 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 66.94 | 16.70 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.73 | 67.13 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.74 | 66.64 | 16.39 |      | 130.0 |         |
|           |                                                       | Z | 4.79 | 66.85 | 16.59 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.71 | 67.38 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.72 | 66.89 | 16.66 |      | 130.0 |         |
|           |                                                       | Z | 4.78 | 67.13 | 16.88 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.41 | 67.32 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.44 | 66.98 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.48 | 67.15 | 16.85 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.54 | 67.74 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.63 | 67.59 | 16.97 |      | 130.0 |         |
|           |                                                       | Z | 5.69 | 67.81 | 17.15 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.43 | 67.51 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.49 | 67.23 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 5.54 | 67.42 | 16.97 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.55 | 67.59 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.24 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.39 | 16.87 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.61 | 67.86 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.65 | 67.53 | 17.00 |      | 130.0 |         |
|           |                                                       | Z | 5.71 | 67.72 | 17.17 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.46 | 67.45 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.44 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.48 | 67.11 | 16.85 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.54 | 67.66 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.37 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.51 | 17.04 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.27 | 66.94 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.32 | 66.69 | 16.42 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 66.82 | 16.56 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.60 | 66.25 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.59 | 65.67 | 16.06 |      | 130.0 |         |
|           |                                                   | Z | 4.64 | 65.88 | 16.27 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.78 | 66.65 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 66.09 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 66.31 | 16.44 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.67 | 66.49 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 65.93 | 16.06 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.16 | 16.27 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.72 | 66.66 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.72 | 66.09 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.78 | 66.33 | 16.45 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.64 | 66.46 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.63 | 65.90 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.13 | 16.29 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.64 | 66.62 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.64 | 66.05 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.29 | 16.33 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.64 | 66.47 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.65 | 65.94 | 16.00 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.18 | 16.21 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.60 | 66.69 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.59 | 66.13 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.40 | 16.47 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.63 | 66.28 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.63 | 65.71 | 15.84 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 65.92 | 16.04 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.25 | 66.64 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.22 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.31 | 66.43 | 16.47 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.32 | 66.83 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.41 | 16.36 |      | 130.0 |         |
|           |                                                   | Z | 5.38 | 66.58 | 16.52 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.21 | 66.86 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.21 | 66.40 | 16.37 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.62 | 16.56 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.21 | 66.63 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.24 | 66.25 | 16.22 |      | 130.0 |         |
|           |                                                   | Z | 5.29 | 66.44 | 16.40 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.30 | 66.65 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.28 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.50 | 16.48 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.31 | 66.81 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.31 | 66.38 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.37 | 66.59 | 16.65 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.32 | 66.98 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.34 | 66.58 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.79 | 16.74 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.20 | 66.48 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.20 | 66.06 | 16.17 |      | 130.0 |         |
|           |                                                    | Z | 5.25 | 66.25 | 16.34 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.38 | 66.68 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.29 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.46 | 66.49 | 16.52 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.69 | 67.49 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.85 | 67.51 | 17.01 |      | 130.0 |         |
|           |                                                    | Z | 5.93 | 67.77 | 17.20 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.55 | 66.68 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.26 | 16.24 |      | 130.0 |         |
|           |                                                    | Z | 5.58 | 66.45 | 16.40 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.79 | 67.25 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 66.93 | 16.53 |      | 130.0 |         |
|           |                                                    | Z | 5.87 | 67.12 | 16.69 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.57 | 66.73 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 66.40 | 16.20 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 66.59 | 16.36 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.65 | 66.79 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 66.52 | 16.25 |      | 130.0 |         |
|           |                                                    | Z | 5.73 | 66.67 | 16.39 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.03 | 68.15 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.29 | 68.49 | 17.22 |      | 130.0 |         |
|           |                                                    | Z | 6.38 | 68.79 | 17.43 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.96 | 68.05 | 17.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.06 | 67.94 | 17.16 |      | 130.0 |         |
|           |                                                    | Z | 6.15 | 68.25 | 17.38 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.76 | 67.33 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 66.97 | 16.69 |      | 130.0 |         |
|           |                                                    | Z | 5.83 | 67.17 | 16.87 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.64 | 66.92 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 66.54 | 16.30 |      | 130.0 |         |
|           |                                                    | Z | 5.71 | 66.76 | 16.48 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.62 | 66.95 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 66.56 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.69 | 66.78 | 16.55 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.49 | 66.24 | 15.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 65.90 | 15.77 |      | 130.0 |         |
|           |                                                    | Z | 5.56 | 66.07 | 15.92 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.97 | 67.02 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.97 | 66.67 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 6.01 | 66.85 | 16.50 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.12 | 67.41 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.11 | 16.55 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 67.29 | 16.70 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.12 | 67.38 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.07 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 67.25 | 16.66 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.09   | 67.31  | 16.68 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.11   | 67.00  | 16.52 |       | 130.0 |         |
|           |                                                        | Z | 6.16   | 67.20  | 16.68 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.09   | 67.31  | 16.62 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.13   | 67.04  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.18   | 67.25  | 16.64 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.15   | 67.24  | 16.60 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.15   | 66.89  | 16.42 |       | 130.0 |         |
|           |                                                        | Z | 6.19   | 67.04  | 16.56 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.18   | 67.49  | 16.89 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.20   | 67.16  | 16.73 |       | 130.0 |         |
|           |                                                        | Z | 6.25   | 67.36  | 16.89 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.02   | 67.17  | 16.63 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.04   | 66.85  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.08   | 67.03  | 16.62 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.16   | 67.59  | 16.86 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.24   | 67.46  | 16.79 |       | 130.0 |         |
|           |                                                        | Z | 6.31   | 67.70  | 16.97 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.33   | 67.74  | 16.89 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.77   | 68.58  | 17.30 |       | 130.0 |         |
|           |                                                        | Z | 6.86   | 68.86  | 17.49 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 21.37  | 115.44 | 39.45 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 16.57  | 106.59 | 36.30 |       | 60.0  |         |
|           |                                                        | Z | 12.85  | 100.08 | 33.69 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 17.53  | 111.56 | 38.45 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 14.74  | 104.61 | 35.82 |       | 60.0  |         |
|           |                                                        | Z | 11.56  | 98.37  | 33.26 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.76   | 65.85  | 11.89 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.58   | 62.15  | 9.36  |       | 150.0 |         |
|           |                                                        | Z | 0.68   | 64.26  | 11.01 |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.58   | 67.43  | 16.93 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.45   | 66.17  | 16.33 |       | 80.0  |         |
|           |                                                        | Z | 3.45   | 66.30  | 16.52 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.06   | 66.44  | 16.92 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.99   | 65.63  | 16.51 |       | 80.0  |         |
|           |                                                        | Z | 3.96   | 65.65  | 16.63 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.03   | 66.03  | 16.90 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.96   | 65.29  | 16.52 |       | 80.0  |         |
|           |                                                        | Z | 3.93   | 65.30  | 16.62 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.09   | 65.98  | 16.92 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.02   | 65.29  | 16.56 |       | 80.0  |         |
|           |                                                        | Z | 3.99   | 65.31  | 16.66 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 29.16  | 94.14  | 21.13 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 9.47   | 81.27  | 17.74 |       | 50.0  |         |
|           |                                                        | Z | 5.06   | 73.00  | 14.38 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 106.49 | 22.76 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 105.92 | 22.67 |       | 60.0  |         |
|           |                                                        | Z | 6.66   | 77.90  | 14.77 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 106.89 | 21.67 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 101.15 | 19.24 |      | 80.0  |         |
|           |                             | Z | 100.00 | 98.11  | 17.66 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 109.97 | 21.79 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 1.04   | 66.37  | 7.97  |      | 100.0 |         |
|           |                             | Z | 0.32   | 60.00  | 4.70  |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 122.28 | 24.82 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 46.02  | 217.52 | 18.45 |      | 120.0 |         |
|           |                             | Z | 88.16  | 61.15  | 1.49  |      | 120.0 |         |

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

## APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

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

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

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

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

| Frequency (MHz)           | 750        | 835   | 1750 | 1900  | 2300 - 2600 | 5200 - 5800 |
|---------------------------|------------|-------|------|-------|-------------|-------------|
| Tissue                    | Body       | Body  | Body | Body  | Body        | Body        |
| Ingredients (% by weight) |            |       |      |       |             |             |
| Bactericide               | See page 2 | 0.1   |      |       |             | See page 3  |
| DGBE                      |            |       | 31   | 29.44 | 26.7        |             |
| HEC                       |            | 1     |      |       |             |             |
| NaCl                      |            | 0.94  | 0.2  | 0.39  | 0.1         |             |
| Sucrose                   |            | 44.9  |      |       |             |             |
| Polysorbate               |            |       |      |       |             |             |
| Water                     |            | 53.06 | 68.8 | 70.17 | 73.2        |             |

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  | SAR EVALUATION REPORT | Approved by:<br>Quality Manager |
| Test Dates:<br>01/02/19 - 01/16/19 | DUT Type:<br>Tablet Device                                                          |                       | APPENDIX D:<br>Page 1 of 3      |

## 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

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

Figure D-1

### Composition of 750 MHz Body Tissue Equivalent Matter

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

Schmid & Partner Engineering AG

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#### Measurement Certificate / Material Test

|              |                                          |
|--------------|------------------------------------------|
| Item Name    | Body Tissue Simulating Liquid (MSL750V2) |
| Product No.  | SL AAM 075 AA (Batch: 170608-1)          |
| Manufacturer | SPEAG                                    |

#### Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

#### Setup Validation

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

#### Target Parameters

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

#### Test Condition

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| Ambient         | Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%. |
| TSL Temperature | 22°C                                                        |
| Test Date       | 20-Jun-17                                                   |
| Operator        | CL                                                          |

#### Additional Information

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.212 g/cm <sup>3</sup> |
| TSL Heat-capacity | 3.006 kJ/(kg·K)         |

| f [MHz] | Measured |       |       | Target |       | Diff.to Target [%] |         |
|---------|----------|-------|-------|--------|-------|--------------------|---------|
|         | e'       | e''   | sigma | eps    | sigma | Δ-eps              | Δ-sigma |
| 600     | 57.3     | 25.02 | 0.84  | 56.1   | 0.95  | 2.2                | -12.2   |
| 625     | 57.1     | 24.67 | 0.86  | 56.0   | 0.95  | 1.9                | -10.1   |
| 650     | 56.8     | 24.32 | 0.88  | 55.9   | 0.96  | 1.6                | -8.0    |
| 675     | 56.6     | 24.02 | 0.90  | 55.8   | 0.96  | 1.3                | -5.8    |
| 700     | 56.3     | 23.71 | 0.92  | 55.7   | 0.96  | 1.1                | -3.8    |
| 725     | 56.1     | 23.48 | 0.95  | 55.6   | 0.96  | 0.8                | -1.5    |
| 750     | 55.9     | 23.25 | 0.97  | 55.5   | 0.96  | 0.6                | 0.7     |
| 775     | 55.6     | 23.04 | 0.99  | 55.4   | 0.97  | 0.3                | 2.9     |
| 800     | 55.4     | 22.82 | 1.02  | 55.3   | 0.97  | 0.1                | 5.0     |
| 825     | 55.2     | 22.65 | 1.04  | 55.2   | 0.98  | -0.1               | 6.3     |
| 838     | 55.1     | 22.56 | 1.05  | 55.2   | 0.98  | -0.3               | 6.9     |
| 850     | 54.9     | 22.47 | 1.06  | 55.2   | 0.99  | -0.4               | 7.5     |
| 875     | 54.7     | 22.34 | 1.09  | 55.1   | 1.02  | -0.7               | 6.7     |
| 900     | 54.5     | 22.21 | 1.11  | 55.0   | 1.05  | -0.9               | 5.9     |
| 925     | 54.3     | 22.08 | 1.14  | 55.0   | 1.06  | -1.3               | 6.9     |
| 950     | 54.1     | 21.95 | 1.16  | 54.9   | 1.08  | -1.6               | 7.9     |
| 975     | 53.8     | 21.86 | 1.19  | 54.9   | 1.09  | -1.9               | 9.1     |
| 1000    | 53.6     | 21.76 | 1.21  | 54.8   | 1.10  | -2.2               | 10.2    |

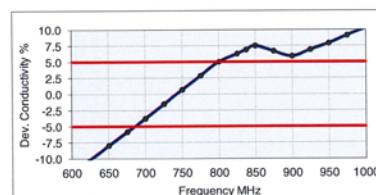
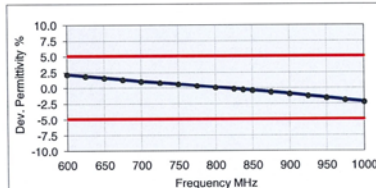


Figure D-2

### 750MHz Body Tissue Equivalent Matter

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  | SAR EVALUATION REPORT | Approved by:<br>Quality Manager |
| Test Dates:<br>01/02/19 - 01/16/19 | DUT Type:<br>Tablet Device                                                          |                       | APPENDIX D:<br>Page 2 of 3      |

### 3 Composition / Information on ingredients

The Item is composed of the following ingredients:

|                                 |          |
|---------------------------------|----------|
| Water                           | 60 – 80% |
| Esters, Emulsifiers, Inhibitors | 20 – 40% |
| Sodium salt                     | 0 – 1.5% |

**Figure D-3**  
**Composition of 5 GHz Body Tissue Equivalent Matter**

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

Schmid & Partner Engineering AG

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#### Measurement Certificate / Material Test

Item Name: Body Tissue Simulating Liquid (MBBL3500-5800V5)  
Product No.: SL AAM 501 EA (Batch: 180423-2)  
Manufacturer: SPEAG

#### Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

#### Setup Validation

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

#### Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

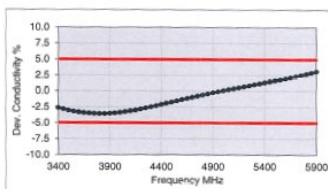
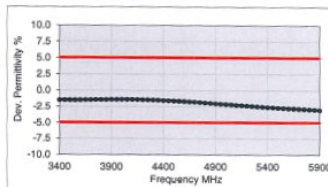
#### Test Condition

Ambient: Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%.  
TSL Temperature: 22°C  
Test Date: 25-Apr-18  
Operator: WM

#### Additional Information

TSL Density: 0.996 g/cm<sup>3</sup>  
TSL Heat-capacity: 3.765 kJ/(kg·K)

| f [MHz] | Measured |       |       | Target |       | Diff.to Target [%] |         |
|---------|----------|-------|-------|--------|-------|--------------------|---------|
|         | e'       | e''   | sigma | eps    | sigma | Δ-eps              | Δ-sigma |
| 3400    | 50.7     | 16.46 | 3.11  | 51.5   | 3.20  | -1.5               | -2.7    |
| 3500    | 50.5     | 16.50 | 3.21  | 51.3   | 3.31  | -1.6               | -3.1    |
| 3600    | 50.4     | 16.56 | 3.32  | 51.2   | 3.43  | -1.5               | -3.2    |
| 3700    | 50.3     | 16.62 | 3.42  | 51.1   | 3.55  | -1.5               | -3.6    |
| 3800    | 50.2     | 16.72 | 3.53  | 50.9   | 3.66  | -1.4               | -3.7    |
| 3900    | 50.1     | 16.81 | 3.65  | 50.8   | 3.78  | -1.3               | -3.5    |
| 4000    | 49.9     | 16.93 | 3.77  | 50.6   | 3.90  | -1.5               | -3.3    |
| 4100    | 49.8     | 17.05 | 3.89  | 50.5   | 4.01  | -1.4               | -3.1    |
| 4200    | 49.6     | 17.18 | 4.01  | 50.4   | 4.13  | -1.5               | -2.9    |
| 4300    | 49.5     | 17.32 | 4.14  | 50.2   | 4.25  | -1.5               | -2.5    |
| 4400    | 49.3     | 17.46 | 4.27  | 50.1   | 4.37  | -1.6               | -2.2    |
| 4500    | 49.2     | 17.59 | 4.40  | 50.0   | 4.48  | -1.5               | -1.8    |
| 4600    | 49.0     | 17.73 | 4.54  | 49.8   | 4.60  | -1.7               | -1.3    |
| 4700    | 48.8     | 17.86 | 4.67  | 49.7   | 4.72  | -1.8               | -1.0    |
| 4800    | 48.6     | 17.99 | 4.80  | 49.6   | 4.83  | -1.9               | -0.7    |
| 4850    | 48.5     | 18.05 | 4.87  | 49.5   | 4.89  | -2.0               | -0.4    |
| 4900    | 48.4     | 18.11 | 4.94  | 49.4   | 4.95  | -2.1               | -0.2    |
| 4950    | 48.3     | 18.17 | 5.00  | 49.4   | 5.01  | -2.1               | -0.1    |
| 5000    | 48.2     | 18.23 | 5.07  | 49.3   | 5.07  | -2.2               | 0.1     |
| 5050    | 48.1     | 18.29 | 5.14  | 49.2   | 5.12  | -2.3               | 0.3     |
| 5100    | 48.0     | 18.34 | 5.20  | 49.2   | 5.18  | -2.3               | 0.3     |
| 5150    | 47.9     | 18.39 | 5.27  | 49.1   | 5.24  | -2.4               | 0.6     |
| 5200    | 47.9     | 18.45 | 5.34  | 49.0   | 5.30  | -2.3               | 0.8     |
| 5250    | 47.8     | 18.50 | 5.40  | 48.9   | 5.36  | -2.3               | 0.8     |
| 5300    | 47.7     | 18.56 | 5.47  | 48.9   | 5.42  | -2.4               | 1.0     |
| 5350    | 47.6     | 18.61 | 5.54  | 48.8   | 5.47  | -2.5               | 1.2     |
| 5400    | 47.5     | 18.67 | 5.61  | 48.7   | 5.53  | -2.5               | 1.4     |
| 5450    | 47.4     | 18.72 | 5.68  | 48.7   | 5.59  | -2.6               | 1.6     |
| 5500    | 47.3     | 18.77 | 5.74  | 48.6   | 5.65  | -2.7               | 1.6     |
| 5550    | 47.2     | 18.83 | 5.81  | 48.5   | 5.71  | -2.8               | 1.8     |
| 5600    | 47.1     | 18.88 | 5.88  | 48.5   | 5.77  | -2.8               | 2.0     |
| 5650    | 47.1     | 18.93 | 5.95  | 48.4   | 5.82  | -2.7               | 2.1     |
| 5700    | 47.0     | 18.99 | 6.02  | 48.3   | 5.88  | -2.8               | 2.3     |
| 5750    | 46.9     | 19.04 | 6.09  | 48.3   | 5.94  | -2.8               | 2.5     |
| 5800    | 46.8     | 19.10 | 6.16  | 48.2   | 6.00  | -2.9               | 2.7     |
| 5850    | 46.7     | 19.16 | 6.23  | 48.1   | 6.06  | -3.0               | 2.8     |
| 5900    | 46.6     | 19.22 | 6.31  | 48.1   | 6.12  | -3.0               | 3.2     |



**Figure D-4**  
**5 GHz Body Tissue Equivalent Matter**

|                                    |                                                                                                                                   |                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT | Approved by:<br>Quality Manager |
| Test Dates:<br>01/02/19 - 01/16/19 | DUT Type:<br>Tablet Device                                                                                                        |                       | APPENDIX D:<br>Page 3 of 3      |

## APPENDIX E: SAR SYSTEM VALIDATION

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

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

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

| SAR SYSTEM # | FREQ. [MHz] | DATE       | PROBE SN | PROBE TYPE | PROBE CAL. POINT | COND.        | PERM.            | CW VALIDATION |                 |                | MOD. VALIDATION |             |      |
|--------------|-------------|------------|----------|------------|------------------|--------------|------------------|---------------|-----------------|----------------|-----------------|-------------|------|
|              |             |            |          |            |                  | ( $\sigma$ ) | ( $\epsilon_r$ ) | SENSITIVITY   | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE       | DUTY FACTOR | PAR  |
| AM1          | 750         | 7/13/2018  | 3275     | ES3DV3     | 750 Body         | 1.005        | 54.788           | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM6          | 835         | 4/4/2018   | 3131     | ES3DV3     | 835 Body         | 0.997        | 56.122           | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| AM7          | 1750        | 3/30/2018  | 3329     | ES3DV3     | 1750 Body        | 1.534        | 54.760           | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM4          | 1750        | 6/21/2018  | 3119     | ES3DV3     | 1750 Body        | 1.421        | 53.712           | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM4          | 1900        | 6/21/2018  | 3119     | ES3DV3     | 1900 Body        | 1.521        | 53.508           | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| AM7          | 2300        | 4/2/2018   | 3329     | ES3DV3     | 2300 Body        | 1.885        | 50.850           | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM5          | 2450        | 12/10/2018 | 3318     | ES3DV3     | 2450 Body        | 2.044        | 51.289           | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM2          | 2450        | 11/9/2018  | 7416     | EX3DV4     | 2450 Body        | 2.020        | 51.408           | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM3          | 2450        | 12/10/2018 | 7420     | EX3DV4     | 2450 Body        | 2.044        | 51.289           | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM2          | 2600        | 11/12/2018 | 7416     | EX3DV4     | 2600 Body        | 2.245        | 52.580           | PASS          | PASS            | PASS           | TDD             | PASS        | N/A  |
| AM6          | 5250        | 4/5/2018   | 3837     | EX3DV4     | 5250 Body        | 5.455        | 47.993           | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| AM6          | 5600        | 4/6/2018   | 3837     | EX3DV4     | 5600 Body        | 5.963        | 47.270           | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| AM6          | 5750        | 4/6/2018   | 3837     | EX3DV4     | 5750 Body        | 6.176        | 47.000           | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |

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

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  | SAR EVALUATION REPORT | Approved by:<br>Quality Manager |
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## APPENDIX G: POWER REDUCTION VERIFICATION

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

### 1.1 Main Antenna Power Reduction Verification Summary

**Table G-1**  
**Main Antenna Power Reduction Verification**

| Mode/Band         | Maximum Scenario<br>Maximum Allowed<br>Target Power [dBm] | Reduced Scenario<br>Maximum Allowed<br>Target Power [dBm] | Conducted Power [dBm] |             |             | Verdict |
|-------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------|-------------|-------------|---------|
|                   |                                                           |                                                           | Maximum               | Test Case 1 | Test Case 2 |         |
| GPRS 850 (2 Tx)   | 28.50 ( $\pm 0.75$ )                                      | 23.95 ( $\pm 0.75$ )                                      | 28.97                 | 24.41       | 24.38       | PASS    |
| GPRS 1900 (2 Tx)  | 26.00 ( $\pm 0.75$ )                                      | 20.05 ( $\pm 0.75$ )                                      | 26.25                 | 20.25       | 20.19       | PASS    |
| WCDMA B5          | 25.00 ( $\pm 0.5$ )                                       | 18.20 ( $\pm 0.5$ )                                       | 25.50                 | 18.21       | 18.21       | PASS    |
| WCDMA B4          | 24.50 ( $\pm 0.5$ )                                       | 13.70 ( $\pm 0.5$ )                                       | 24.53                 | 13.72       | 13.76       | PASS    |
| WCDMA B2          | 25.00 ( $\pm 0.5$ )                                       | 13.00 ( $\pm 0.5$ )                                       | 25.17                 | 13.22       | 13.25       | PASS    |
| LTE Band 12       | 25.00 ( $\pm 0.5$ )                                       | 18.50 ( $\pm 0.5$ )                                       | 25.39                 | 18.83       | 18.82       | PASS    |
| LTE Band 17       | 24.00 ( $\pm 0.5$ )                                       | 18.50 ( $\pm 0.5$ )                                       | 24.24                 | 18.73       | 18.71       | PASS    |
| LTE Band 14       | 25.00 ( $\pm 0.5$ )                                       | 18.00 ( $\pm 0.5$ )                                       | 25.29                 | 18.19       | 18.20       | PASS    |
| LTE Band 13       | 24.00 ( $\pm 0.5$ )                                       | 19.60 ( $\pm 0.5$ )                                       | 24.24                 | 19.70       | 19.72       | PASS    |
| LTE Band 5        | 25.00 ( $\pm 0.5$ )                                       | 18.20 ( $\pm 0.5$ )                                       | 25.35                 | 18.55       | 18.53       | PASS    |
| LTE Band 26       | 24.00 ( $\pm 0.5$ )                                       | 19.50 ( $\pm 0.5$ )                                       | 24.32                 | 19.71       | 19.80       | PASS    |
| LTE Band 4        | 25.00 ( $\pm 0.5$ )                                       | 13.50 ( $\pm 0.5$ )                                       | 25.21                 | 13.75       | 13.77       | PASS    |
| LTE Band 66       | 23.00 ( $\pm 0.5$ )                                       | 13.70 ( $\pm 0.5$ )                                       | 23.19                 | 14.00       | 14.02       | PASS    |
| LTE Band 2        | 25.00 ( $\pm 0.5$ )                                       | 13.00 ( $\pm 0.5$ )                                       | 25.20                 | 13.27       | 13.29       | PASS    |
| LTE Band 25       | 23.00 ( $\pm 0.5$ )                                       | 13.80 ( $\pm 0.5$ )                                       | 22.97                 | 13.73       | 13.74       | PASS    |
| LTE Band 30       | 22.80 ( $\pm 0.5$ )                                       | 12.50 ( $\pm 0.5$ )                                       | 23.00                 | 12.71       | 12.73       | PASS    |
| LTE Band 7        | 22.75 ( $\pm 0.5$ )                                       | 11.40 ( $\pm 0.5$ )                                       | 22.75                 | 11.40       | 11.36       | PASS    |
| LTE Band 41 (PC3) | 22.75 ( $\pm 0.5$ )                                       | 14.00 ( $\pm 0.5$ )                                       | 23.00                 | 14.22       | 14.24       | PASS    |
| LTE Band 41 (PC2) | 26.50 ( $\pm 0.5$ )                                       | 13.50 ( $\pm 0.5$ )                                       | 26.72                 | 13.78       | 13.72       | PASS    |

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

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

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

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

LTE DLCA Test Reduction Methodology:

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

Table 1 – Example of Exclusion Table for SISO Configurations

| Index   | PCC         | Supported Component Carriers (SCCs) |             |      |      | Restrictions | Completely Covered by Measurement Superset |
|---------|-------------|-------------------------------------|-------------|------|------|--------------|--------------------------------------------|
|         |             | SCC1                                | SCC2        | SCC3 | SCC4 |              |                                            |
| 001-01  | CA_2A       | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-02  | CA_2A       | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-03  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-04  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-05  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-06  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-07  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-08  | CA_2A-2A-4A | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-09  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-10  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-11  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-12  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-13  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-14  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-15  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-16  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-17  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-18  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-19  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-20  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-21  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-22  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-23  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-24  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-25  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-26  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-27  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-28  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-29  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-30  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-31  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-32  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-33  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-34  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-35  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-36  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-37  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-38  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-39  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-40  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-41  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-42  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-43  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-44  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-45  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-46  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-47  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-48  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-49  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-50  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-51  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-52  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-53  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-54  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-55  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-56  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-57  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-58  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-59  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-60  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-61  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-62  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-63  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-64  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-65  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-66  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-67  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-68  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-69  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-70  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-71  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-72  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-73  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-74  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-75  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-76  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-77  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-78  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-79  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-80  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-81  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-82  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-83  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-84  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-85  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-86  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-87  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-88  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-89  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-90  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-91  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-92  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-93  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-94  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-95  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-96  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-97  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-98  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-99  | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |
| 001-100 | CA_2A-2A    | 5.15, 15.15                         | 5.15, 15.15 |      |      |              | 001-01                                     |

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

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

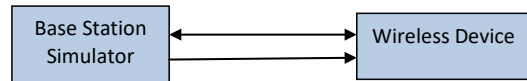
This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

|                                    |                                                                                                           |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: BCGA2123                   |  SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>01/02/19 – 01/16/19 | DUT Type:<br>Tablet Device                                                                                | APPENDIX H:<br>Page 1 of 9      |

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

#### General PCC and SCC configuration selection procedure

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



**Figure 1**  
DL CA Power Measurement Setup

## 1.3 Downlink Carrier Aggregation RF Conducted Powers

### 1.3.1 LTE Band 12 as PCC

**Table 1**  
Output Powers – Ant WF3

| Combination        | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL# RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | Power                                 |                                   |
|--------------------|----------|--------------|--------------|----------------------|-------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                    |          |              |              |                      |       |            |                   |                  |                      | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.95                                 | 19.00                             |
| CA 4A-12A (1)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.99                                 | 19.00                             |
| CA 4A-12A (2)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.93                                 | 19.00                             |
| CA 12A-66A (1)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.97                                 | 19.00                             |
| CA 12A-66A (2)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.97                                 | 19.00                             |
| CA 2C-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 702              | 1940.2               | -        | -            | -                | -                    | 19.00                                 | 19.00                             |
| CA 4A-7A-12A (1)   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | 19.00                                 | 19.00                             |
| CA 2A-2A-12B       | LTE B12  | 5            | 23095        | 701.5                | 16QAM | 1          | 0                 | 5035             | 731.5                | LTE B12  | 10           | 5107             | 736.7                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 18.96                                 | 19.00                             |
| CA 2A-2A-4A-12A    | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 18.96                                 | 19.00                             |
| CA 2A-4A-4A-12A    | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 18.97                                 | 19.00                             |
| CA 2A-4A-12B       | LTE B12  | 5            | 23095        | 701.5                | 16QAM | 1          | 0                 | 5035             | 731.5                | LTE B12  | 10           | 5107             | 736.7                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 18.98                                 | 19.00                             |
| CA 2A-2A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B30  | 10           | 9820             | 2355                 | 18.96                                 | 19.00                             |
| CA 2A-2A-12A-66A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | 18.91                                 | 19.00                             |
| CA 2A-12A-66A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | 18.91                                 | 19.00                             |
| CA 2A-12A-66C      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 18.90                                 | 19.00                             |
| CA 2A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 9820             | 2355                 | 18.93                                 | 19.00                             |
| CA 2A-12A-30A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | 18.95                                 | 19.00                             |
| CA 4A-4A-12B       | LTE B12  | 5            | 23095        | 701.5                | 16QAM | 1          | 0                 | 5035             | 731.5                | LTE B12  | 10           | 5107             | 736.7                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 18.95                                 | 19.00                             |
| CA 4A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | LTE B30  | 10           | 9820             | 2355                 | 18.98                                 | 19.00                             |
| CA 12A-30A-66A-66A | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1          | 49                | 5095             | 737.5                | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | 18.94                                 | 19.00                             |

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>01/02/19 – 01/16/19 | DUT Type:<br>Tablet Device                                                          |                       | APPENDIX H:<br>Page 2 of 9      |

**Table 2**  
**Output Powers – Ant WF5**

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. Freq. [MHz] | PCC   |           |                  |                  | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTC Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
|--------------------|----------|--------------|--------------------------|-------|-----------|------------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                    |          |              |                          | Mod.  | PCC UL RB | PCC UL RB Offset | SCC (DL) Channel |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |                                       |                                   |       |       |
| CA 2A-12A          | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.94                             | 19.00 |       |
| CA 4A-12A (1)      | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.94                             | 19.00 |       |
| CA 4A-12A (2)      | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B6   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.94                             | 19.00 |       |
| CA 12A-66A (1)     | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.95                             | 19.00 |       |
| CA 12A-66A (2)     | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.95                             | 19.00 |       |
| CA 2C-12A          | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 702              | 1940.2               | -        | -            | -                | -                    | -                                     | -                                 | 18.95 | 19.00 |
| CA 4A-7A-12A (1)   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | -                                     | -                                 | 18.96 | 19.00 |
| CA 2A-2A-12A       | LTE B12  | 5            | 23035                    | 701.5 | 64QAM     | 1                | 0                | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 2132.5                                | 18.76                             | 19.00 |       |
| CA 2A-2A-1A-12A    | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 18.75                                 | 19.00                             |       |       |
| CA 2A-4A-12A       | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 18.75                                 | 19.00                             |       |       |
| CA 2A-4A-12B       | LTE B12  | 5            | 23035                    | 701.5 | 64QAM     | 1                | 0                | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 18.43                                 | 19.00                             |       |       |
| CA 2A-2A-12A-30A   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B30  | 10           | 9820             | 2355                 | 18.42                                 | 19.00                             |       |       |
| CA 2A-2A-12A-66A   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | 18.75                                 | 19.00                             |       |       |
| CA 2A-12A-66A-66A  | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | 18.82                                 | 19.00                             |       |       |
| CA 2A-12A-66C      | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 18.62                                 | 19.00                             |       |       |
| CA 2A-4A-12A-30A   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 9820             | 2355                 | 18.70                                 | 19.00                             |       |       |
| CA 2A-4A-12A-66A   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 9820             | 2355                 | 18.70                                 | 19.00                             |       |       |
| CA 4A-4A-12B       | LTE B12  | 5            | 23035                    | 701.5 | 64QAM     | 1                | 0                | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 18.85                                 | 19.00                             |       |       |
| CA 4A-4A-12A-30A   | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | LTE B30  | 10           | 9820             | 2355                 | 18.77                                 | 19.00                             |       |       |
| CA 12A-30A-66A-66A | LTE B12  | 10           | 23095                    | 707.5 | QPSK      | 1                | 0                | 5095             | 737.5                | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | 18.77                                 | 19.00                             |       |       |

### 1.3.2 LTE Band 13 as PCC

**Table 3**  
**Output Powers – Ant WF3**

| Combination       | PCC      |              |              |                      |       |           |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                       | Power                             |       |
|-------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                   | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 2A-4A-13A      | LTE B13  | 10           | 23230        | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.92                             | 18.99 |
| CA 2A-13A-66A     | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.50                             | 18.50 |
| CA 4A-4A-13A      | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2350             | 2150                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.81                             | 18.89 |
| CA 13A-66A-66A    | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.50                             | 18.50 |
| CA 2A-13A-66C     | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | -                                     | 17.83                             | 18.50 |
| CA 2A-13A-66A-66A | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                     | 18.41                             | 18.50 |
| CA 2A-13A-66A-66B | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | -        | -            | -                | -                    | -                                     | 18.15                             | 18.50 |
| CA 2A-13A-66C     | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 15           | 66786            | 2145                 | LTE B66  | 5            | 66879            | 2164.8               | -        | -            | -                | -                    | -                                     | 18.42                             | 18.50 |
| CA 13A-66A-66B    | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 66786            | 2145                 | LTE B66  | 15           | 67038            | 2163.2               | LTE B66  | 15           | 67020            | 2162.5               | -        | -            | -                | -                    | -                                     | 18.14                             | 18.50 |
| CA 13A-66A-66C    | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67038            | 2163.2               | LTE B66  | 20           | 67236            | 2150                 | -        | -            | -                | -                    | -                                     | 18.40                             | 18.50 |
| CA 13A-66A-66A    | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                     | 18.48                             | 18.50 |
| CA 2A-13A-66D     | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | -                                     | 18.46                             | 18.50 |
| CA 13A-46E        | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50663            | 5537.3               | -        | -            | -                | -                    | -                                     | 18.50                             | 18.50 |
| CA 13A-46D        | LTE B13  | 5            | 23230        | 762                  | QPSK  | 12        | 6                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50663            | 5537.3               | -        | -            | -                | -                    | -                                     | 18.50                             | 18.50 |
| CA 13A-46D-66A    | LTE B13  | 5            | 23230        | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50663            | 5537.3               | -        | -            | -                | -                    | -                                     | 18.50                             | 18.50 |

**Table 4**  
**Output Powers – Ant WF5**

| Combination       | PCC Band | PCC          |             |                      |       |           |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | SCC 3                |          |              |                  | SCC 4                |          |              |                  | Power                |                                       |                                   |
|-------------------|----------|--------------|-------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                   |          | PCC BW [MHz] | PCC (UL) Ch | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-4A-13A      | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.98                                 | 18.98                             |
| CA 2A-13A-66A     | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.93                                 | 20.08                             |
| CA 4A-4A-13A      | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2350             | 2150                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.98                                 | 20.08                             |
| CA 13A-66A-66A    | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 18.93                                 | 20.08                             |
| CA 2A-13A-66C     | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | 18.98                                 | 20.08                             |
| CA 2A-2A-13A-66A  | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 18.80                                 | 20.08                             |
| CA 2A-13A-66A-66A | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2150                 | -        | -            | -                | -                    | 18.85                                 | 20.08                             |
| CA 2A-13A-66B     | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 15           | 66786            | 2145                 | LTE B66  | 5            | 66879            | 2164.8               | -        | -            | -                | -                    | 20.07                                 | 20.08                             |
| CA 2A-13A-66C     | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | -        | -            | -                | -                    | 19.90                                 | 20.08                             |
| CA 13A-66A-66B    | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 66786            | 2145                 | LTE B66  | 15           | 67038            | 2163.2               | LTE B66  | 15           | 67020            | 2162.5               | -        | -            | -                | -                    | 19.86                                 | 20.08                             |
| CA 13A-66A-66C    | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67038            | 2163.2               | LTE B66  | 20           | 67236            | 2150                 | -        | -            | -                | -                    | 19.81                                 | 20.08                             |
| CA 13A-66A-66A    | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 19.99                                 | 20.08                             |
| CA 2A-13A-66D     | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B2   | 20           | 900              | 1960                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | 18.98                                 | 20.08                             |
| CA 13A-66B        | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | 18.98                                 | 20.08                             |
| CA 13A-66C        | LTE B13  | 10           | 23230       | 762                  | 16QAM | 1         | 0                | 5230             | 761                  | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 19.93                                 | 20.08                             |

## 1.3.4 LTE Band 5 as PCC

**Table 7**  
**Output Powers – Ant WF3**

| Combination       | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | SCC 4    |              |                  |                      | Power                              |                                   |       |       |
|-------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------------------------------------|-----------------------------------|-------|-------|
|                   |          |              |              |                      |      |           |                  |                  |                      | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA SA-7A          | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 18.70                             | 18.70 |       |
| CA SA-25A         | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B25  | 20           | 8365             | 1902.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 18.70                             | 18.70 |       |
| CA SA-41A         | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B41  | 20           | 40620            | 2593                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 18.70                             | 18.70 |       |
| CA SA-46A (1)     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 18.64                             | 18.70 |       |
| CA SA-46C (1)     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -                                  | -                                 | 18.70 | 18.70 |
| CA SA-46D (1)     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -                                  | -                                 | 18.70 | 18.70 |
| CA 2A-2A-4A-SA    | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -                                  | -                                 | 18.65 | 18.70 |
| CA 2A-4A-4A-SA    | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -                                  | -                                 | 18.68 | 18.70 |
| CA 2A-4A-8A       | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -                                  | -                                 | 18.41 | 18.70 |
| CA 2A-2A-SA-30A   | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B30  | 10           | 8620             | 2595                 | -        | -            | -                | -                    | -                                  | -                                 | 18.47 | 18.70 |
| CA 2A-2A-SA-66A   | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 18.41 | 18.70 |
| CA 2A-SA-30A-66A  | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                  | -                                 | 18.46 | 18.70 |
| CA 2A-4A-SA-30A   | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 8620             | 2595                 | -        | -            | -                | -                    | -                                  | -                                 | 18.37 | 18.70 |
| CA 2A-SA-30A-66A  | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 8620             | 2595                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 18.31 | 18.70 |
| CA 4A-4A-8A       | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | -                                 | 18.52 | 18.70 |
| CA SA-46D (1)     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50667            | 5517.7               | LTE B46  | 20           | 50663            | 5557.3               | -        | -            | -                | -                    | -                                  | -                                 | 18.56 | 18.70 |
| CA SA-66B         | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | -        | -            | -                | -                    | -                                  | -                                 | 18.70 | 18.70 |
| CA SA-66A-66B     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66B | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                  | -                                 | 18.25 | 18.70 |
| CA SA-66A-66C     | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67038            | 2170.2               | LTE B66  | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                  | -                                 | 18.30 | 18.70 |
| CA SA-30A-66A-66A | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B30  | 10           | 8620             | 2595                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                  | -                                 | 18.20 | 18.70 |
| CA 2A-2A-SA-66B   | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 15           | 66786            | 2145                 | LTE B66  | 5            | 66879            | 2164.3               | 18.70                              | 18.70                             |       |       |
| CA 2A-2A-SA-66C   | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 18.70                              | 18.70                             |       |       |
| CA 2A-SB-66A-66A  | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B5   | 10           | 2497             | 878.7                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 18.39                              | 18.70                             |       |       |
| CA 2A-SB-66C      | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B5   | 10           | 2497             | 878.7                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 18.46                              | 18.70                             |       |       |
| CA 2A-SB-66A      | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B5   | 10           | 2497             | 878.7                | LTE B30  | 10           | 8620             | 2595                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 18.44                              | 18.70                             |       |       |
| CA SB-30A-66A-66A | LTE B5   | 10           | 20425        | 836.5                | QPSK | 1         | 49               | 2525             | 881.5                | LTE B5   | 10           | 2497             | 878.7                | LTE B30  | 10           | 8620             | 2595                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 18.44                              | 18.70                             |       |       |

**Table 8**  
**Output Powers – Ant WF5**

| Combination      | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2     |              |                  |                      | SCC 3    |              |                  |                      | SCC 4    |              |                  |                      | Power                                 |                                   |       |       |
|------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|-----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                  |          |              |              |                      |      |           |                  |                  |                      | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band  | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA SA-7A         | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B7   | 20           | 3100             | 2655                 | -         | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.81                             | 20.00 |       |
| CA SA-25A        | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B25  | 20           | 8365             | 1902.5               | -         | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.97                             | 20.00 |       |
| CA SA-41A        | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B41  | 20           | 40620            | 2593                 | -         | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.92                             | 20.00 |       |
| CA SA-46A (1)    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B46  | 20           | 50665            | 5537.5               | -         | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.90                             | 20.00 |       |
| CA 2A-2A         | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2    | 20           | 700              | 1940                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | -                                     | 18.92                             | 20.00 |       |
| CA SA-46C (1)    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B46  | 20           | 50665            | 5537.5               | LTE B46   | 20           | 50667            | 5517.7               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.88                             | 20.00 |       |
| CA 2A-2A-4A-SA   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2    | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.98 | 20.00 |
| CA 2A-4A-4A-SA   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4    | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -                                     | -                                 | 18.97 | 20.00 |
| CA 2A-4A-8A      | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4    | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -                                     | -                                 | 18.41 | 20.00 |
| CA 2A-2A-SA-30A  | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2    | 20           | 700              | 1940                 | LTE B30  | 10           | 8620             | 2595                 | -        | -            | -                | -                    | -                                     | -                                 | 18.97 | 20.00 |
| CA 2A-2A-SA-66A  | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2    | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                     | -                                 | 18.98 | 20.00 |
| CA 2A-SA-30A-66A | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66   | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                     | -                                 | 18.99 | 20.00 |
| CA 2A-4A-SA-30A  | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4    | 20           | 2175             | 2132.5               | LTE B30  | 10           | 8620             | 2595                 | -        | -            | -                | -                    | -                                     | -                                 | 18.97 | 20.00 |
| CA 2A-SA-30A-66A | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30   | 10           | 8620             | 2595                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                     | -                                 | 18.97 | 20.00 |
| CA 4A-4A-8A      | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4    | 10           | 2560             | 2160                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 18.98                             | 20.00 |       |
| CA 4A-4A-SA-30A  | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4    | 10           | 2560             | 2160                 | LTE B30  | 10           | 8620             | 2595                 | -        | -            | -                | -                    | -                                     | -                                 | 18.95 | 20.00 |
| CA SA-46D (1)    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B46  | 20           | 50665            | 5537.5               | LTE B46   | 20           | 50667            | 5517.7               | LTE B46  | 20           | 50663            | 5557.3               | -        | -            | -                | -                    | -                                     | -                                 | 18.90 | 20.00 |
| CA SA-66B        | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66   | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | -        | -            | -                | -                    | -                                     | -                                 | 18.96 | 20.00 |
| CA SA-66A-66B    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66B  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66C    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871                  | LTE B66A | 20           | 66786            | 2145                 | LTE B66C  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66D    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66D  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66E    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66E  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66F    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66F  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66G    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66G  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66H    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66H  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66I    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66I  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66J    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66J  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66K    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66K  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66L    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66L  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66M    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66M  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66N    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66N  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66O    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66O  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66P    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66P  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66Q    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66Q  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66R    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66R  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66S    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66S  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66T    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66T  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66U    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66U  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66V    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66V  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66W    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66W  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66X    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66X  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66Y    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66Y  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66Z    | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66Z  | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AA   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AA | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AB   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AB | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AC   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AC | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AD   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AD | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AE   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AE | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5               | -        | -            | -                | -                    | -                                     | -                                 | 18.94 | 20.00 |
| CA SA-66A-66AF   | LTE B5   | 5            | 20425        | 826.5                | QPSK | 1         | 0                | 2425             | 871.5                | LTE B66A | 20           | 66786            | 2145                 | LTE B66AF | 5            | 67168            | 2183.2               | LTE B66  | 15           | 67261            | 2182.5</             |          |              |                  |                      |                                       |                                   |       |       |

### 1.3.5 LTE Band 26 as PCC

**Table 9**  
**Output Powers – Ant WF3**

| Combination    | PCC Band | PCC          |              |                      |       |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | Power                                 |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                |          | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_25A-26A     | LTE B26  | 10           | 26740        | 819                  | 64QAM | 1          | 0                | 8740             | 864                  | LTE B25  | 20           | 8365             | 1962.5               | -        | -            | -                | -                    | 18.40                                 | 18.70                             |
| CA_25A-25A-26A | LTE B26  | 5            | 26715        | 816.5                | QPSK  | 1          | 0                | 8715             | 861.5                | LTE B25  | 20           | 8365             | 1962.5               | LTE B25  | 20           | 8590             | 1985                 | 18.54                                 | 18.70                             |

**Table 10**  
**Output Powers – Ant WF5**

|                | PCC      |              |              |                      |       |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | Power                                 |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_25A-26A     | LTE B26  | 5            | 26715        | 816.5                | 16QAM | 1          | 24               | 8715             | 861.5                | LTE B25  | 20           | 8365             | 1962.5               | -        | -            | -                | -                    | 19.70                                 | 20.00                             |
| CA_25A-25A-26A | LTE B26  | 5            | 26715        | 816.5                | 16QAM | 1          | 24               | 8715             | 861.5                | LTE B25  | 20           | 8365             | 1962.5               | LTE B25  | 20           | 8590             | 1985                 | 19.77                                 | 20.00                             |

### 1.3.6 LTE Band 66 as PCC

**Table 11**  
**Output Powers – Ant WF3**

[illegible]

|                                           |                                                                                                                  |                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: BCGA2123                          |  <b>SAR EVALUATION REPORT</b> | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>01/02/19 – 01/16/19 | <b>DUT Type:</b><br>Tablet Device                                                                                | APPENDIX H:<br>Page 5 of 9             |

**Table 12**  
**Output Powers – Ant WF5**

| Combination         | PCC Band | PCC BW [MHz] | PCC (UL) Ch | PCC    |      |      | PCC UL# RB | PCC UL# RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC 1        |                  |                      | SCC 2    |              |                  | SCC 3                |          |              | SCC 4            |                      |          | Power        |                  |                      |                                       |                                   |
|---------------------|----------|--------------|-------------|--------|------|------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                     |          |              |             | Mod.   | Mod. | Mod. |            |                   |                  |                      |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-66A           | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  | 14.04                | 14.20                                 |                                   |
| CA 7A-66A           | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B7               | 20       | 3100         | 2655             |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  | 14.04                | 14.20                                 |                                   |
| CA 12A-66A (3)      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 12A-66A (9)      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2C-66A           | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940.2           |                      |          |              |                  |                      |          |              |                  | 14.05                | 14.20                                 |                                   |
| CA 2A-66A-66A       | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B46              | 20       | 50965        | 5537.5           |                      |          |              |                  |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 13A-66A-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B46              | 20       | 50965        | 5537.5           | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  |                      |          |              |                  | 14.09                | 14.20                                 |                                   |
| CA 20A-66A-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             |                      |          |              |                  |                      |          |              |                  | 14.18                | 14.20                                 |                                   |
| CA 66A-66A-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B46              | 20       | 50965        | 5537.5           | LTE B46              | 20       | 47090        | 5180             |                      |          |              |                  |                      |          |              |                  | 14.06                | 14.20                                 |                                   |
| CA 1A-66A-66A       | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B46              | 20       | 50965        | 5537.5           |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  | 14.00                | 14.20                                 |                                   |
| CA 2A-2A-66A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             |                      |          |              |                  | 14.17                | 14.20                                 |                                   |
| CA 2A-2A-12A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  |                      |          |              |                  | 14.16                | 14.20                                 |                                   |
| CA 2A-2A-5A-66A     | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B2               | 20       | 700          | 1940             |                      |          |              |                  | 14.15                | 14.20                                 |                                   |
| CA 2A-5A-66A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.14                | 14.20                                 |                                   |
| CA 2A-12A-12A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  |                      |          |              |                  | 14.16                | 14.20                                 |                                   |
| CA 2A-12A-66A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  | 14.14                | 14.20                                 |                                   |
| CA 2A-12A-66C       | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  | 14.17                | 14.20                                 |                                   |
| CA 2A-2A-13A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-13A-66A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.19                | 14.20                                 |                                   |
| CA 2A-13A-66B       | LTE B25  | 15           | 132047      | 1717.5 | QPSK | 1    | 0          | 66511             | 2117.5           | LTE B25              | 5        | 66604        | 2126.8           | LTE B2               | 20       | 900          | 1960             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-13A-66C       | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-2A-14A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B14              | 10       | 5330         | 763              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-14A-66A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B14              | 10       | 5330         | 763              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-2A-2A-66A-66A | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B14              | 10       | 5330         | 763              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-4C-66A        | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B46              | 20       | 50965        | 5537.5           | LTE B46              | 20       | 50965        | 5537.5           |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-5A-30A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B5               | 10       | 2525         | 881.5            | LTE B30              | 10       | 8620         | 2395             |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-12A-30A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            | LTE B30              | 10       | 8620         | 2395             |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-14A-30A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B2               | 20       | 900          | 1960             | LTE B14              | 10       | 5330         | 763              | LTE B30              | 10       | 8620         | 2395             |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-2A-2A-66A-66A | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B12              | 10       | 5095         | 737.5            |                      |          |              |                  | 14.18                | 14.20                                 |                                   |
| CA 5A-66C           | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 5A-66A-66B       | LTE B25  | 15           | 132047      | 1717.5 | QPSK | 1    | 0          | 66511             | 2117.5           | LTE B25              | 5        | 66604        | 2126.8           | LTE B25              | 20       | 67236        | 2190             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.08                | 14.20                                 |                                   |
| CA 5A-6A-66C        | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 5A-6A-66A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 12A-30A-66A-66A  | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B12              | 10       | 5095         | 737.5            | LTE B30              | 10       | 8620         | 2395             |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 13A-66A-66B      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 13A-66B-66A      | LTE B25  | 15           | 132047      | 1717.5 | QPSK | 1    | 0          | 66511             | 2117.5           | LTE B25              | 5        | 66604        | 2126.8           | LTE B25              | 20       | 67236        | 2190             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.14                | 14.20                                 |                                   |
| CA 13A-66C-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.19                | 14.20                                 |                                   |
| CA 13A-66C-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B25              | 20       | 67236        | 2190             | LTE B13              | 10       | 5230         | 751              |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 14A-30A-66A-66A  | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B14              | 10       | 5330         | 763              | LTE B30              | 10       | 8620         | 2395             |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 66A-66C-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B46              | 20       | 50965        | 5537.5           | LTE B46              | 20       | 50965        | 5537.5           |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 66C-66A-66A      | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B46              | 20       | 50965        | 5537.5           | LTE B46              | 20       | 50965        | 5537.5           |                      |          |              |                  | 14.20                | 14.20                                 |                                   |
| CA 2A-2A-66A-66B    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B2               | 20       | 700          | 1940             |                      | 14.18                                 | 14.20                             |
| CA 2A-2A-66A-66C    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B2               | 20       | 700          | 1940             |                      | 14.20                                 | 14.20                             |
| CA 2A-2A-5A-66C     | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B5               | 10       | 2525         | 881.5            |                      |          |              |                  | 14.17                | 14.20                                 |                                   |
| CA 2A-5B-66A-66A    | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B5               | 10       | 2525         | 881.5            | LTE B5               | 5        | 2453         | 874.3            | 14.20                | 14.20                                 |                                   |
| CA 2A-66C-66A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B46              | 20       | 50965        | 5537.5           | LTE B46              | 20       | 50965        | 5537.5           | 14.20                | 14.20                                 |                                   |
| CA 2A-30A-66A-66A   | LTE B25  | 20           | 132072      | 1720   | QPSK | 1    | 99         | 66536             | 2120             | LTE B25              | 20       | 67236        | 2190             | LTE B2               | 20       | 900          | 1960             | LTE B5               | 10       | 2525         | 881.5            | LTE B5               | 5        | 2453         | 874.3            | 14.20                | 14.20                                 |                                   |
| CA 2A-30A-66B       | LTE B25  | 15           | 132047      | 1717.5 | QPSK | 1    | 0          | 66511             | 2117.5           | LTE B25              | 5        | 66604        | 2126.8           | LTE B2               | 20       | 700          | 1940             | LTE B5               | 10       | 2525         | 881.5            | LTE B5               | 5        | 2453         | 874.3            | 14.20                | 14.20                                 |                                   |
| CA 2A-30A-66C       | LTE B2   |              |             |        |      |      |            |                   |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |                                       |                                   |

## 1.3.8 LTE Band 30 as PCC

**Table 15**  
**Output Powers – Ant WF3**

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC  |           |                  |                      | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | SCC 4    |              |                  |                      | Power                                 |                                   |
|--------------------|----------|--------------|--------------|------|-----------|------------------|----------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                    |          |              |              | Mod. | PCC UL RB | PCC UL RB Offset | PCC (UL) Freq. [MHz] |                  |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2C-30A          | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 48                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.80                                 | 12.95                             |
| CA 2A-2A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.74                                 | 12.89                             |
| CA 2A-2A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.77                                 | 12.95                             |
| CA 2A-2A-2A-30A    | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B29  | 10           | 9715             | 722.5                | -        | -            | -                | -                    | 11.78                                 | 12.95                             |
| CA 2A-2A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.72                                 | 12.95                             |
| CA 2A-4A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.68                                 | 12.95                             |
| CA 2A-4A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.72                                 | 12.95                             |
| CA 2A-4A-2A-30A    | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B29  | 10           | 9715             | 722.5                | -        | -            | -                | -                    | 12.69                                 | 12.95                             |
| CA 2A-5A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.72                                 | 12.95                             |
| CA 2A-12A-30A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B12  | 10           | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.83                                 | 12.95                             |
| CA 2A-14A-30A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.74                                 | 12.95                             |
| CA 2A-2A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B29  | 10           | 9715             | 722.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.64                                 | 12.95                             |
| CA 4A-4A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2175             | 2132.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.67                                 | 12.95                             |
| CA 2A-2A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.70                                 | 12.95                             |
| CA 2A-2A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.70                                 | 12.95                             |
| CA 12A-30A-66A-66A | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B12  | 10           | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.86                                 | 12.95                             |
| CA 14A-30A-66A-66A | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.81                                 | 12.95                             |
| CA 2A-5A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 49                   | 9820             | 2355                 | LTE B5   | 10           | 2525             | 881.5                | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.77                                 | 12.95                             |

**Table 16**  
**Output Powers – Ant WF5**

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC  |           |                  |                      | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | SCC 4    |              |                  |                      | Power                                 |                                   |
|--------------------|----------|--------------|--------------|------|-----------|------------------|----------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                    |          |              |              | Mod. | PCC UL RB | PCC UL RB Offset | PCC (UL) Freq. [MHz] |                  |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2C-30A          | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 2A-2A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.12                                 | 12.20                             |
| CA 2A-2A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.14                                 | 12.20                             |
| CA 2A-2A-2A-30A    | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B29  | 10           | 9715             | 722.5                | -        | -            | -                | -                    | 12.14                                 | 12.20                             |
| CA 2A-2A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.18                                 | 12.20                             |
| CA 2A-4A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 2A-4A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 2A-4A-2A-30A    | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B29  | 10           | 9715             | 722.5                | -        | -            | -                | -                    | 12.19                                 | 12.20                             |
| CA 2A-5A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 2A-12A-30A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B12  | 10           | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 2A-14A-30A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B2   | 20           | 900              | 1960                 | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.20                                 | 12.20                             |
| CA 4A-4A-30A       | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2175             | 2132.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 12.14                                 | 12.20                             |
| CA 2A-2A-12A-30A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.19                                 | 12.20                             |
| CA 5A-30A-66A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.14                                 | 12.20                             |
| CA 12A-30A-66A-66A | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B12  | 10           | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.19                                 | 12.20                             |
| CA 14A-30A-66A-66A | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.19                                 | 12.20                             |
| CA 2A-5A-30A-66A   | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B5   | 10           | 2525             | 881.5                | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.19                                 | 12.20                             |
| CA 5B-30A-66A-66A  | LTE B30  | 30           | 27710        | 2310 | 10QAM     | 1                | 25                   | 9820             | 2355                 | LTE B5   | 10           | 2525             | 881.5                | LTE B5   | 5            | 2453             | 874.3                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 12.20                                 | 12.20                             |

## 1.3.9 LTE Band 7 as PCC

**Table 17**  
**Output Powers – Ant WF3**

| Combination      | PCC Band | PCC          |              |                      |       | SCC 1     |                  |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | Power    |              |                  |                      |                                       |                                   |       |       |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                  |          | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dbm) | LTE Single Carrier Tx Power (dbm) |       |       |
| CA 5A-7A         | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 11.50                             | 11.50 |       |
| CA 7B            | LTE B7   | 15           | 20825        | 2507.5               | 16QAM | 1         | 0                | 2825             | 2627.5               | LTE B7   | 5            | 2918             | 2636.8               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 11.50                             | 11.49 |       |
| CA 7C (1)        | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B7   | 20           | 2929             | 2647.9               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 11.50                             | 11.50 |       |
| CA 7A-66A (1)    | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 11.50                             | 11.50 |       |
| CA 7A-66A        | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 11.50                             | 11.50 |       |
| CA 4A-4A-7A (1)  | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | -        | -            | -                | -                    | -                                     | -                                 | 11.43 | 11.50 |
| CA 4A-7A-7A      | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B7   | 20           | 2850             | 2630                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -                                     | -                                 | 11.40 | 11.50 |
| CA 4A-7A-12A (1) | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 9566             | 737.5                | -        | -            | -                | -                    | -                                     | -                                 | 11.46 | 11.50 |
| CA 7A-86C (1)    | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50667            | 5537.7               | -        | -            | -                | -                    | -                                     | -                                 | 11.29 | 11.50 |
| CA 7A-46D (1)    | LTE B7   | 20           | 21350        | 2560                 | 16QAM | 1         | 99               | 3350             | 2680                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50667            | 5537.7               | LTE B46  | 20           | 50683            | 5557.3               | -                                     | 11.14                             | 11.50 |       |

### 1.3.10 LTE Band 41 as PCC

**Table 19**  
**Output Powers – Ant WF3**

| Combination    | PCC      |              |              |                      |      |           |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                       | Power                             |       |       |
|----------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA 41A-41A (1) | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 13.96                             | 13.99 |       |
| CA 41A-41C     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.00                             | 13.99 |       |
| CA 41C-41A     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 40383            | 2569.3               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.00                             | 13.99 |       |
| CA 41A-41D     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | 14.00 | 13.99 |
| CA 41D-41A     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 40083            | 2569.3               | LTE B41  | 20           | 40981            | 2589.1               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | 14.00 | 13.99 |
| CA 41C-41C     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 40383            | 2569.3               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | 14.00 | 13.99 |
| CA 41C-41D     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 40083            | 2569.3               | LTE B41  | 20           | 40981            | 2589.1               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                     | -                                 | 13.99 | 13.99 |
| CA 41D-41C     | LTE B41  | 20           | 40185        | 2549.5               | QPSK | 1         | 0                | 40185            | 2549.5               | LTE B41  | 20           | 40083            | 2569.3               | LTE B41  | 20           | 40981            | 2589.1               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                     | -                                 | 13.98 | 13.99 |

**Table 20**  
**Output Powers – Ant WF5**

| Combination    | PCC      |              |              |                      |      |           |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                       | Power                             |       |       |       |
|----------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|-------|
|                | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |       |
| CA 41A-41A (1) | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.44                             | 14.50 |       |       |
| CA 41A-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.50 | 14.50 |       |
| CA 41C-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.49 | 14.50 |
| CA 41A-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.49 | 14.50 |
| CA 41D-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40046            | 2545.6               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.48 | 14.50 |
| CA 41C-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.49 | 14.50 |
| CA 41C         | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40046            | 2545.6               | LTE B41  | 20           | 40344            | 2565.4               | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.49 | 14.50 |
| CA 41C-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                     | -                                 | -     | 14.48 | 14.50 |
| CA 41D-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40046            | 2545.6               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                     | -                                 | -     | 14.49 | 14.50 |

### 1.3.11 LTE Band 41 PC2 as PCC

**Table 21**  
**Output Powers – Ant WF3**

| Combination    | PCC         |              |              |                      |      |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                                       | Power                             |       |
|----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A (1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 13.96                             | 14.00 |
| CA 41A-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 13.99                             | 14.00 |
| CA 41A-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 13.99                             | 14.00 |
| CA 41D-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 13.97                             | 14.00 |
| CA 41C-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 13.99                             | 14.00 |
| CA 41C-41E     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 13.97                             | 14.00 |
| CA 41D-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 14.00                             | 14.00 |
| CA 41D-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 13.99                             | 14.00 |

**Table 22**  
**Output Powers – Ant WF5**

| Combination    | PCC         |              |              |                      |      |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                                       | Power                             |       |
|----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A (1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 14.44                             | 14.50 |
| CA 41A-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 14.50                             | 14.50 |
| CA 41A-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 14.49                             | 14.50 |
| CA 41D-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 14.48                             | 14.50 |
| CA 41C-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 14.49                             | 14.50 |
| CA 41C         | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 14.49                             | 14.50 |
| CA 41C-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 14.48                             | 14.50 |
| CA 41D-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40046            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 14.49                             | 14.50 |

## 1.4 Downlink Carrier Aggregation with CA\_41C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes. Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>01/02/19 – 01/16/19 | DUT Type:<br>Tablet Device                                                          |                       | APPENDIX H:<br>Page 8 of 9      |

## 1.4.1 DL Carrier Aggregation RF Conducted Powers

**Table 23**  
**Output Powers – Ant WF3**

| Combination | PCC                 |                     |                             |            |            |                  | SCC1                |                     |                             |            |            |                  | SCC2                |                |                        |                     | SCC3           |                        |                     |                | SCC4                   |                                                               |                      |       | Power |      |       |       |
|-------------|---------------------|---------------------|-----------------------------|------------|------------|------------------|---------------------|---------------------|-----------------------------|------------|------------|------------------|---------------------|----------------|------------------------|---------------------|----------------|------------------------|---------------------|----------------|------------------------|---------------------------------------------------------------|----------------------|-------|-------|------|-------|-------|
|             | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |       |       |      |       |       |
| CA 41C-41A  | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 39750          | 2506                   | -                   | -              | -                      | -                                                             | 13.59                | 13.59 |       |      |       |       |
| CA 41D      | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 41094          | 2640.4                 | -                   | -              | -                      | -                                                             | 13.53                | 13.59 |       |      |       |       |
| CA 41E      | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 41094          | 2640.4                 | LTE B41             | 20             | 40896                  | 2620.6                                                        | -                    | 13.50 | 13.59 |      |       |       |
| CA 41C-41C  | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 39948          | 2525.8                 | LTE B41             | 20             | 39750                  | 2506                                                          | -                    | 13.55 | 13.59 |      |       |       |
| CA 41D-41A  | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 41094          | 2640.4                 | LTE B41             | 20             | 39750                  | 2506                                                          | -                    | 13.59 | 13.59 |      |       |       |
| CA 41C-41D  | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 40146          | 2545.6                 | LTE B41             | 20             | 39948                  | 2525.8                                                        | LTE B41              | 20    | 39750 | 2506 | 13.55 | 13.59 |
| CA 41D-41C  | LTE B41             | 20                  | 41490                       | 2680       | QPSK       | 50               | 0                   | LTE B41             | 20                          | 41292      | 2660.2     | QPSK             | 50                  | 50             | LTE B41                | 20                  | 41094          | 2640.4                 | LTE B41             | 20             | 39948                  | 2525.8                                                        | LTE B41              | 20    | 39750 | 2506 | 13.58 | 13.59 |

**Table 24**  
**Output Powers – Ant WF5**

| Combination | PCC      |                     |                     |                             |            |           | SCC1             |          |                     |                     |                             |            | SCC2      |                  |          |                     |                |                        | SCC3     |                     |                |                        |          |                     | SCC4           |                        |                                                               |                      |  |  | Power |  |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|---------------------------------------------------------------|----------------------|--|--|-------|--|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL RB | SCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |  |  |       |  |
| CA 41C-41A  | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 39750          | 2506                   |          |                     |                |                        |          |                     |                |                        | 13.80                                                         | 13.95                |  |  |       |  |
| CA 41D      | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 41094          | 2640.4                 |          |                     |                |                        |          |                     |                |                        | 13.89                                                         | 13.95                |  |  |       |  |
| CA 41E      | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 41094          | 2640.4                 | LTE B41  | 20                  | 40896          | 2620.6                 |          |                     |                |                        | 13.85                                                         | 13.95                |  |  |       |  |
| CA 41C-41C  | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 39948          | 2525.8                 | LTE B41  | 20                  | 39750          | 2506                   |          |                     |                |                        | 13.93                                                         | 13.95                |  |  |       |  |
| CA 41D-41A  | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 41094          | 2640.4                 | LTE B41  | 20                  | 39750          | 2506                   |          |                     |                |                        | 13.94                                                         | 13.95                |  |  |       |  |
| CA 41C-41D  | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 40146          | 2545.6                 | LTE B41  | 20                  | 39948          | 2525.8                 | LTE B41  | 20                  | 39750          | 2506                   | 13.93                                                         | 13.95                |  |  |       |  |
| CA 41D-41C  | LTE B41  | 20                  | 41490               | 2680                        | QPSK       | 50        | 0                | LTE B41  | 20                  | 41292               | 2660.2                      | QPSK       | 50        | 50               | LTE B41  | 20                  | 41094          | 2640.4                 | LTE B41  | 20                  | 39948          | 2525.8                 | LTE B41  | 20                  | 39750          | 2506                   | 13.97                                                         | 13.95                |  |  |       |  |

|                                    |                                                                                                                                   |                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2123                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>01/02/19 – 01/16/19 | DUT Type:<br>Tablet Device                                                                                                        |                       | APPENDIX H:<br>Page 9 of 9      |