



| Part27Q 78 PC2&3 |            |         |           |                       |                          |                        |                     |          |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel          |            |         |           |                       | 633334                   |                        | 9.0                 | 0.0      |
| Frequency (MHz)  |            |         |           |                       | 3500.01                  |                        |                     |          |
| 100              | PI/2 BPSK  | 1       | 1         |                       | 8.21                     |                        |                     |          |
| 100              | PI/2 BPSK  | 1       | 137       |                       | 8.26                     |                        | 9.0                 | 0.0      |
| 100              | PI/2 BPSK  | 1       | 271       |                       | 8.13                     |                        |                     |          |
| 100              | PI/2 BPSK  | 135     | 0         |                       | 8.14                     |                        | 9.0                 | 0.0      |
| 100              | PI/2 BPSK  | 135     | 69        |                       | 8.22                     |                        | 9.0                 | 0.0      |
| 100              | PI/2 BPSK  | 135     | 138       |                       | 8.17                     |                        | 9.0                 | 0.0      |
| 100              | PI/2 BPSK  | 270     | 0         |                       | 8.12                     |                        |                     |          |
| 100              | QPSK       | 1       | 1         |                       | 8.28                     |                        | 9.0                 | 0.0      |
| 100              | QPSK       | 1       | 137       |                       | 8.12                     |                        |                     |          |
| 100              | QPSK       | 1       | 271       |                       | 8.21                     |                        |                     |          |
| 100              | QPSK       | 135     | 0         |                       | 8.14                     |                        | 9.0                 | 0.0      |
| 100              | QPSK       | 135     | 69        |                       | 8.26                     |                        | 9.0                 | 0.0      |
| 100              | QPSK       | 135     | 138       |                       | 8.21                     |                        | 9.0                 | 0.0      |
| 100              | QPSK       | 270     | 0         |                       | 8.23                     |                        |                     |          |
| 100              | 16QAM      | 1       | 1         |                       | 8.14                     |                        | 9.0                 | 0.0      |
| 100              | 64QAM      | 1       | 1         |                       | 8.13                     |                        | 9.0                 | 0.0      |
| 100              | 256QAM     | 1       | 1         |                       | 8.19                     |                        | 9.0                 | 0.0      |
| Channel          |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90               | QPSK       | 1       | 1         | 8.14                  | 8.13                     | 8.15                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80               | QPSK       | 1       | 1         | 8.20                  | 8.19                     | 8.15                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70               | QPSK       | 1       | 1         | 8.22                  | 8.14                     | 8.19                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60               | QPSK       | 1       | 1         | 8.21                  | 8.28                     | 8.17                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50               | QPSK       | 1       | 1         | 8.22                  | 8.18                     | 8.20                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40               | QPSK       | 1       | 1         | 8.16                  | 8.18                     | 8.23                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30               | QPSK       | 1       | 1         | 8.24                  | 8.14                     | 8.23                   | 9.0                 | 0.0      |
| Channel          |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)  |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20               | QPSK       | 1       | 1         | 8.24                  | 8.15                     | 8.20                   | 9.0                 | 0.0      |



<Ant4>

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 14.6                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 13.62                 | 13.79                    | 13.65                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 13.64                 | 13.71                    | 13.67                  | 14.6                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 13.70                 | 13.74                    | 13.58                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 13.62                 | 13.76                    | 13.74                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 13.69                 | 13.73                    | 13.66                  | 14.6                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 13.71                 | 13.74                    | 13.62                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 13.66                 | 13.70                    | 13.53                  |                     |          |
| 100             | QPSK       | 1       | 1         | 13.75                 | 13.88                    | 13.82                  | 14.6                | 0.0      |
| 100             | QPSK       | 1       | 137       | 13.80                 | 13.83                    | 13.71                  |                     |          |
| 100             | QPSK       | 1       | 271       | 13.71                 | 13.73                    | 13.58                  |                     |          |
| 100             | QPSK       | 135     | 0         | 13.57                 | 13.72                    | 13.60                  | 14.6                | 0.0      |
| 100             | QPSK       | 135     | 69        | 13.69                 | 13.75                    | 13.71                  |                     |          |
| 100             | QPSK       | 135     | 138       | 13.62                 | 13.65                    | 13.71                  |                     |          |
| 100             | QPSK       | 270     | 0         | 13.73                 | 13.74                    | 13.71                  | 14.6                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 13.76                 | 13.82                    | 13.76                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 13.62                 | 13.76                    | 13.66                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 13.61                 | 13.71                    | 13.63                  | 14.6                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 13.63                 | 13.81                    | 13.67                  | 14.6                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 13.59                 | 13.74                    | 13.77                  | 14.6                | 0.0      |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 13.68                 | 13.80                    | 13.71                  | 14.6                | 0.0      |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 13.72                 | 13.77                    | 13.73                  | 14.6                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 13.66                 | 13.76                    | 13.74                  | 14.6                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 13.69                 | 13.84                    | 13.67                  | 14.6                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 13.59                 | 13.84                    | 13.73                  | 14.6                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 13.61                 | 13.75                    | 13.72                  | 14.6                | 0.0      |



| Par270 n77      |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 650000                | 656000                   | 662000                 | 12.7                | 0.0      |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 11.35                 | 11.45                    | 11.32                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 11.32                 | 11.47                    | 11.38                  | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 11.36                 | 11.44                    | 11.28                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 11.23                 | 11.35                    | 11.30                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 11.40                 | 11.43                    | 11.34                  | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 11.37                 | 11.43                    | 11.38                  | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         | 11.28                 | 11.37                    | 11.33                  |                     |          |
| 100             | QPSK       | 1       | 1         | 11.42                 | 11.49                    | 11.36                  |                     |          |
| 100             | QPSK       | 1       | 137       | 11.31                 | 11.42                    | 11.28                  | 12.7                | 0.0      |
| 100             | QPSK       | 1       | 271       | 11.34                 | 11.46                    | 11.40                  |                     |          |
| 100             | QPSK       | 135     | 0         | 11.26                 | 11.41                    | 11.27                  |                     |          |
| 100             | QPSK       | 135     | 69        | 11.31                 | 11.45                    | 11.42                  | 12.7                | 0.0      |
| 100             | QPSK       | 135     | 138       | 11.23                 | 11.37                    | 11.26                  | 12.7                | 0.0      |
| 100             | QPSK       | 270     | 0         | 11.32                 | 11.43                    | 11.33                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 11.31                 | 11.33                    | 11.23                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 11.37                 | 11.42                    | 11.27                  | 12.7                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 11.25                 | 11.38                    | 11.33                  | 12.7                | 0.0      |
| Channel         |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |
| 80              | QPSK       | 1       | 1         | 11.38                 | 11.42                    | 11.30                  | 12.7                | 0.0      |
| Channel         |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |
| 60              | QPSK       | 1       | 1         | 11.26                 | 11.36                    | 11.21                  | 12.7                | 0.0      |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 11.32                 | 11.39                    | 11.27                  | 12.7                | 0.0      |
| Channel         |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |
| 30              | QPSK       | 1       | 1         | 11.40                 | 11.40                    | 11.25                  | 12.7                | 0.0      |
| Channel         |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |
| 20              | QPSK       | 1       | 1         | 11.30                 | 11.41                    | 11.20                  | 12.7                | 0.0      |



| Part27Q n77     |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       | 633334                   |                        | 12.7                | 0.0      |
| Frequency (MHz) |            |         |           |                       | 3500.01                  |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.01                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.16                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.03                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.01                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.03                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.05                    |                        |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.14                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 11.18                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 11.05                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 11.14                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 11.01                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 11.09                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 11.00                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 11.06                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 11.16                    |                        |                     |          |
| 100             | 64QAM      | 1       | 1         |                       | 11.03                    |                        |                     |          |
| 100             | 256QAM     | 1       | 1         |                       | 11.01                    |                        |                     |          |
|                 |            |         |           |                       |                          |                        |                     |          |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 11.07                 | 11.14                    | 11.01                  | 12.7                | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60              | QPSK       | 1       | 1         | 11.03                 | 11.05                    | 11.15                  | 12.7                | 0.0      |
| Channel         |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40              | QPSK       | 1       | 1         | 11.13                 | 11.08                    | 11.02                  | 12.7                | 0.0      |
| Channel         |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30              | QPSK       | 1       | 1         | 11.07                 | 11.05                    | 11.06                  | 12.7                | 0.0      |
| Channel         |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 11.02                 | 11.12                    | 11.11                  | 12.7                | 0.0      |



| Part270 n78     |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 650000                | 650000                   | 650000                 | 12.7                | 0.0      |
| Frequency (MHz) |            |         |           | 3750                  | 3750                     | 3750                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.32                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.24                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.27                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.33                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.30                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.27                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.21                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 11.38                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 11.24                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 11.35                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 11.22                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 11.31                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 11.23                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 11.31                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 11.35                    |                        |                     |          |
| 100             | 64QAM      | 1       | 1         |                       | 11.27                    |                        | 12.7                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 11.24                    |                        | 12.7                | 0.0      |
| Channel         |            |         |           | 649668                | 650000                   | 650334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3755.01                |                     |          |
| 90              | QPSK       | 1       | 1         | 11.30                 | 11.25                    | 11.26                  | 12.7                | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |
| 80              | QPSK       | 1       | 1         | 11.35                 | 11.31                    | 11.30                  | 12.7                | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70              | QPSK       | 1       | 1         | 11.32                 | 11.30                    | 11.30                  | 12.7                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |
| 60              | QPSK       | 1       | 1         | 11.23                 | 11.23                    | 11.28                  | 12.7                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |
| 50              | QPSK       | 1       | 1         | 11.34                 | 11.36                    | 11.33                  | 12.7                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40              | QPSK       | 1       | 1         | 11.22                 | 11.36                    | 11.23                  | 12.7                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |
| 30              | QPSK       | 1       | 1         | 11.30                 | 11.28                    | 11.31                  | 12.7                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |
| 20              | QPSK       | 1       | 1         | 11.36                 | 11.25                    | 11.27                  | 12.7                | 0.0      |



| Part27Q 78      |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       | 633334                   |                        | 12.7                | 0.0      |
| Frequency (MHz) |            |         |           |                       | 3500.01                  |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.40                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.35                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.41                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.34                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.42                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.35                    |                        | 12.7                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.40                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 11.49                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 1       | 137       |                       | 11.32                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 11.34                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 11.33                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 11.42                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 11.34                    |                        | 12.7                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 11.44                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 11.45                    |                        | 12.7                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 11.41                    |                        | 12.7                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 11.32                    |                        | 12.7                | 0.0      |
| Channel         |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90              | QPSK       | 1       | 1         | 11.34                 | 11.36                    | 11.34                  | 12.7                | 0.0      |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 11.37                 | 11.45                    | 11.40                  | 12.7                | 0.0      |
| Channel         |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70              | QPSK       | 1       | 1         | 11.45                 | 11.39                    | 11.43                  | 12.7                | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60              | QPSK       | 1       | 1         | 11.38                 | 11.38                    | 11.42                  | 12.7                | 0.0      |
| Channel         |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 11.36                 | 11.37                    | 11.34                  | 12.7                | 0.0      |
| Channel         |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40              | QPSK       | 1       | 1         | 11.35                 | 11.39                    | 11.40                  | 12.7                | 0.0      |
| Channel         |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30              | QPSK       | 1       | 1         | 11.40                 | 11.42                    | 11.45                  | 12.7                | 0.0      |
| Channel         |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 11.41                 | 11.37                    | 11.37                  | 12.7                | 0.0      |



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| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 10.3                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 9.43                  | 9.49                     | 9.44                   | 10.3                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 9.34                  | 9.40                     | 9.32                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 9.27                  | 9.41                     | 9.29                   |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 9.44                  | 9.50                     | 9.35                   | 10.3                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        | 9.31                  | 9.47                     | 9.35                   | 10.3                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 9.32                  | 9.46                     | 9.32                   | 10.3                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         | 9.36                  | 9.40                     | 9.24                   |                     |          |
| 100             | QPSK       | 1       | 1         | 9.50                  | 9.54                     | 9.43                   | 10.3                | 0.0      |
| 100             | QPSK       | 1       | 137       | 9.38                  | 9.47                     | 9.37                   |                     |          |
| 100             | QPSK       | 1       | 271       | 9.35                  | 9.52                     | 9.50                   |                     |          |
| 100             | QPSK       | 135     | 0         | 9.44                  | 9.49                     | 9.40                   | 10.3                | 0.0      |
| 100             | QPSK       | 135     | 69        | 9.36                  | 9.51                     | 9.40                   | 10.3                | 0.0      |
| 100             | QPSK       | 135     | 138       | 9.31                  | 9.41                     | 9.28                   | 10.3                | 0.0      |
| 100             | QPSK       | 270     | 0         | 9.29                  | 9.37                     | 9.26                   |                     |          |
| 100             | 16QAM      | 1       | 1         | 9.37                  | 9.47                     | 9.33                   | 10.3                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 9.39                  | 9.44                     | 9.36                   | 10.3                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 9.30                  | 9.36                     | 9.32                   | 10.3                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 9.38                  | 9.38                     | 9.37                   | 10.3                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 9.35                  | 9.51                     | 9.35                   | 10.3                | 0.0      |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 9.42                  | 9.47                     | 9.36                   | 10.3                | 0.0      |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 9.46                  | 9.50                     | 9.38                   | 10.3                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 9.44                  | 9.40                     | 9.29                   | 10.3                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 9.47                  | 9.48                     | 9.29                   | 10.3                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 9.34                  | 9.40                     | 9.38                   | 10.3                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 9.40                  | 9.51                     | 9.31                   | 10.3                | 0.0      |



| Par270 n77      |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 650000                | 656000                   | 662000                 | 9.0                 | 0.0      |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 7.94                  | 8.01                     | 7.89                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 7.77                  | 7.90                     | 7.80                   | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 7.89                  | 7.98                     | 7.93                   |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 7.92                  | 7.94                     | 7.75                   |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 7.95                  | 7.99                     | 7.80                   | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 7.84                  | 7.99                     | 7.90                   |                     |          |
| 100             | QPSK       | 1       | 1         | 8.05                  | 8.10                     | 7.89                   | 9.0                 | 0.0      |
| 100             | QPSK       | 1       | 137       | 7.81                  | 7.93                     | 7.83                   |                     |          |
| 100             | QPSK       | 1       | 271       | 7.88                  | 7.98                     | 7.91                   |                     |          |
| 100             | QPSK       | 135     | 0         | 7.79                  | 7.95                     | 7.86                   | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 69        | 7.91                  | 8.01                     | 7.90                   |                     |          |
| 100             | QPSK       | 135     | 138       | 7.72                  | 7.97                     | 7.85                   | 9.0                 | 0.0      |
| 100             | QPSK       | 270     | 0         | 7.81                  | 7.89                     | 7.73                   |                     |          |
| 100             | 16QAM      | 1       | 1         | 7.89                  | 7.96                     | 7.85                   | 9.0                 | 0.0      |
| 100             | 64QAM      | 1       | 1         | 7.90                  | 7.99                     | 7.89                   |                     |          |
| 100             | 256QAM     | 1       | 1         | 7.78                  | 7.89                     | 7.80                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |
| 80              | QPSK       | 1       | 1         | 7.97                  | 7.88                     | 7.89                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |
| 60              | QPSK       | 1       | 1         | 7.93                  | 7.98                     | 7.88                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 7.93                  | 7.86                     | 7.82                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |
| 30              | QPSK       | 1       | 1         | 7.83                  | 7.98                     | 7.80                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |
| 20              | QPSK       | 1       | 1         | 7.93                  | 8.00                     | 7.92                   | 9.0                 | 0.0      |



| Part27Q n77     |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       | 633334                   |                        | 9.0                 | 0.0      |
| Frequency (MHz) |            |         |           |                       | 3500.01                  |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 8.08                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 8.06                     |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 7.98                     |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 8.07                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 8.05                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 8.01                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 8.09                     |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 8.16                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 1       | 137       |                       | 8.10                     |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 8.10                     |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 8.09                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 8.06                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 8.04                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 8.05                     |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 8.06                     |                        | 9.0                 | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 7.98                     |                        | 9.0                 | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 7.99                     |                        | 9.0                 | 0.0      |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 7.98                  | 7.98                     | 8.14                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60              | QPSK       | 1       | 1         | 8.11                  | 8.00                     | 8.09                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40              | QPSK       | 1       | 1         | 8.08                  | 8.02                     | 8.00                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30              | QPSK       | 1       | 1         | 8.02                  | 8.03                     | 8.07                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 8.05                  | 8.05                     | 7.95                   | 9.0                 | 0.0      |



| Part270 n78     |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 650000                | 650000                   | 650000                 |                     |          |
| Frequency (MHz) |            |         |           | 3750                  | 3750                     | 3750                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 8.17                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 8.15                     |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 8.15                     |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 8.11                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 8.20                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 8.07                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 8.09                     |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 8.24                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 1       | 137       |                       | 8.19                     |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 8.14                     |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 8.07                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 8.22                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 8.13                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 8.21                     |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 8.09                     |                        | 9.0                 | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 8.15                     |                        | 9.0                 | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 8.00                     |                        | 9.0                 | 0.0      |
| Channel         |            |         |           | 649665                | 649998                   | 650331                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3742.48               | 3747.49                  | 3752.53                |                     |          |
| 90              | QPSK       | 1       | 1         | 8.08                  | 8.09                     | 8.07                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3760.02                |                     |          |
| 80              | QPSK       | 1       | 1         | 8.17                  | 8.11                     | 8.10                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70              | QPSK       | 1       | 1         | 8.15                  | 8.09                     | 8.13                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 651334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3770.01                |                     |          |
| 60              | QPSK       | 1       | 1         | 8.20                  | 8.03                     | 8.07                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3775.02                |                     |          |
| 50              | QPSK       | 1       | 1         | 8.14                  | 8.14                     | 8.12                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40              | QPSK       | 1       | 1         | 8.14                  | 8.19                     | 8.08                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 652334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750                     | 3785.01                |                     |          |
| 30              | QPSK       | 1       | 1         | 8.09                  | 8.10                     | 8.12                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3790.02                |                     |          |
| 20              | QPSK       | 1       | 1         | 8.11                  | 8.05                     | 8.17                   | 9.0                 | 0.0      |



| Part27Q 78      |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       | 633334                   |                        | 9.0                 | 0.0      |
| Frequency (MHz) |            |         |           |                       | 3500.01                  |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 8.02                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 8.08                     |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 8.02                     |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 8.09                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 8.05                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 8.11                     |                        | 9.0                 | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 8.12                     |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 8.17                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 1       | 137       |                       | 8.03                     |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 8.10                     |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 8.04                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 8.13                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 8.02                     |                        | 9.0                 | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 8.10                     |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 8.05                     |                        | 9.0                 | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 8.14                     |                        | 9.0                 | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 8.01                     |                        | 9.0                 | 0.0      |
| Channel         |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90              | QPSK       | 1       | 1         | 7.97                  | 7.99                     | 8.10                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 8.07                  | 8.09                     | 8.04                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70              | QPSK       | 1       | 1         | 8.15                  | 8.09                     | 8.16                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60              | QPSK       | 1       | 1         | 8.14                  | 8.04                     | 8.01                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 8.06                  | 8.09                     | 8.05                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 631334                | 633334                   | 635334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3500.01                  | 3530.01                |                     |          |
| 40              | QPSK       | 1       | 1         | 8.09                  | 8.08                     | 8.07                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 631000                | 633334                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3500.01                  | 3535.02                |                     |          |
| 30              | QPSK       | 1       | 1         | 8.09                  | 8.11                     | 8.12                   | 9.0                 | 0.0      |
| Channel         |            |         |           | 630668                | 633334                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3500.01                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 8.09                  | 7.98                     | 8.09                   | 9.0                 | 0.0      |

### <WLAN Conducted Power>

#### General Note:

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
6. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. TX Beamforming mode is only supported in 2.4GHz WLAN 802.11ax and 5GHz WLAN 802.11n/ax.
7. Due to the single antenna RF power in WLAN SISO & MIMO (CDD) mode is larger than or very close to the single antenna RF power in Beamforming mode, so WLAN SISO & MIMO (CDD) mode SAR can represent beamforming mode SAR.



<2.4GHz WLAN Ant6>

| Ant 6                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 2.4GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11b 1Mbps |         | 1                  | 2412   | 20.18            | 21.50                       | 18.96            | 20.00                         | 15.87            | 17.50           |
| 6                      |               |         | 2437               | 20.58  | 22.00            | 19.35                       | 20.00            | 16.29                         | 17.50            |                 |
| 11                     |               |         | 2462               | 18.01  | 19.50            | 18.01                       | 19.50            | 15.53                         | 17.50            |                 |
| 802.11g 6Mbps          |               | 1       | 2412               | 16.14  | 17.50            | 16.14                       | 17.50            | Not Required                  | 17.50            | 95.34           |
|                        |               | 2       | 2417               | 17.46  | 19.00            | 17.46                       | 19.00            |                               | 17.50            |                 |
|                        |               | 6       | 2437               | 19.17  | 20.50            | 19.17                       | 20.00            |                               | 17.50            |                 |
|                        |               | 9       | 2452               | 17.64  | 19.00            | 17.64                       | 19.00            |                               | 17.50            |                 |
|                        |               | 10      | 2457               | 14.86  | 16.00            | 14.86                       | 16.00            |                               | 16.00            |                 |
|                        |               | 11      | 2462               | 15.25  | 17.00            | 15.25                       | 17.00            |                               | 17.00            |                 |
| 802.11n-HT20<br>MCS0   |               | 1       | 2412               | 15.07  | 16.50            | Not Required                | 16.50            | Not Required                  | 16.50            | 94.98           |
|                        |               | 2       | 2417               | 17.14  | 18.50            |                             | 18.50            |                               | 17.50            |                 |
|                        |               | 6       | 2437               | 18.44  | 20.00            |                             | 20.00            |                               | 17.50            |                 |
|                        |               | 9       | 2452               | 15.56  | 17.00            |                             | 17.00            |                               | 17.00            |                 |
|                        |               | 10      | 2457               | 13.34  | 15.00            |                             | 15.00            |                               | 15.00            |                 |
|                        |               | 11      | 2462               | 13.25  | 15.00            |                             | 15.00            |                               | 15.00            |                 |
| 802.11ac-VHT20<br>MCS0 |               | 1       | 2412               | 15.14  | 16.50            | Not Required                | 16.50            | Not Required                  | 16.50            | 92.96           |
|                        |               | 2       | 2417               | 17.27  | 19.00            |                             | 19.00            |                               | 17.50            |                 |
|                        |               | 6       | 2437               | 18.48  | 20.00            |                             | 20.00            |                               | 17.50            |                 |
|                        |               | 9       | 2452               | 15.75  | 17.00            |                             | 17.00            |                               | 17.00            |                 |
|                        |               | 10      | 2457               | 13.53  | 15.00            |                             | 15.00            |                               | 15.00            |                 |
|                        |               | 11      | 2462               | 13.14  | 14.50            |                             | 14.50            |                               | 14.50            |                 |
| 802.11ax-HE20<br>MCS0  |               | 1       | 2412               | 15.06  | 16.50            | Not Required                | 16.50            | Not Required                  | 16.50            | 97.47           |
|                        |               | 2       | 2417               | 17.26  | 19.00            |                             | 19.00            |                               | 17.50            |                 |
|                        |               | 6       | 2437               | 18.50  | 20.00            |                             | 20.00            |                               | 17.50            |                 |
|                        |               | 9       | 2452               | 15.86  | 17.00            |                             | 17.00            |                               | 17.00            |                 |
|                        |               | 10      | 2457               | 13.56  | 15.00            |                             | 15.00            |                               | 15.00            |                 |
|                        |               | 11      | 2462               | 13.25  | 15.00            |                             | 15.00            |                               | 15.00            |                 |



<2.4GHz WLAN Ant7>

| Ant 7                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |       |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|-------|
| 2.4GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |       |
|                        | 802.11b 1Mbps | 1       | 1                  | 2412   | 21.06            | 22.50                       | 19.04            | 20.00                         | 16.06            | 17.00           | 99.31 |
| 6                      |               |         | 2437               | 20.68  | 22.50            | 18.42                       | 20.00            | 15.45                         | 17.00            |                 |       |
| 11                     |               |         | 2462               | 18.24  | 19.50            | 18.24                       | 19.50            | 15.26                         | 17.00            |                 |       |
| 802.11g 6Mbps          |               | 1       | 1                  | 2412   | 17.22            | 18.50                       | 17.22            | 18.50                         | Not Required     | 17.00           | 95.30 |
|                        |               |         | 2                  | 2417   | 18.09            | 19.50                       | 18.09            | 19.50                         |                  | 17.00           |       |
|                        |               |         | 6                  | 2437   | 20.02            | 21.50                       | 19.28            | 20.00                         |                  | 17.00           |       |
|                        |               |         | 9                  | 2452   | 18.10            | 19.50                       | 18.10            | 19.50                         |                  | 17.00           |       |
|                        |               |         | 10                 | 2457   | 15.10            | 16.50                       | 15.10            | 16.50                         |                  | 16.50           |       |
| 11                     |               | 2462    | 15.58              | 17.00  | 15.58            | 17.00                       | 17.00            |                               |                  |                 |       |
| 802.11n-HT20<br>MCS0   |               | 1       | 1                  | 2412   | 16.26            | 18.00                       | Not Required     | 18.00                         | Not Required     | 17.00           | 94.98 |
|                        |               |         | 2                  | 2417   | 17.08            | 18.50                       |                  | 18.50                         |                  | 17.00           |       |
|                        |               |         | 6                  | 2437   | 18.55            | 20.00                       |                  | 20.00                         |                  | 17.00           |       |
|                        |               |         | 9                  | 2452   | 15.56            | 17.00                       |                  | 17.00                         |                  | 17.00           |       |
|                        |               |         | 10                 | 2457   | 13.21            | 15.00                       |                  | 15.00                         |                  | 15.00           |       |
| 11                     |               | 2462    | 13.36              | 15.00  | 15.00            | 15.00                       |                  |                               |                  |                 |       |
| 802.11ac-VHT20<br>MCS0 | 1             | 1       | 2412               | 16.14  | 17.50            | Not Required                | 17.50            | Not Required                  | 17.00            | 93.00           |       |
|                        |               | 2       | 2417               | 17.20  | 18.50            |                             | 18.50            |                               | 17.00            |                 |       |
|                        |               | 6       | 2437               | 18.60  | 20.50            |                             | 20.00            |                               | 17.00            |                 |       |
|                        |               | 9       | 2452               | 15.77  | 17.00            |                             | 17.00            |                               | 17.00            |                 |       |
|                        |               | 10      | 2457               | 13.33  | 15.00            |                             | 15.00            |                               | 15.00            |                 |       |
| 11                     | 2462          | 13.80   | 15.50              | 15.50  | 15.50            |                             |                  |                               |                  |                 |       |
| 802.11ax-HE20<br>MCS0  | 1             | 1       | 2412               | 16.30  | 18.00            | Not Required                | 18.00            | Not Required                  | 17.00            | 97.47           |       |
|                        |               | 2       | 2417               | 17.33  | 18.50            |                             | 18.50            |                               | 17.00            |                 |       |
|                        |               | 6       | 2437               | 18.67  | 20.50            |                             | 20.00            |                               | 17.00            |                 |       |
|                        |               | 9       | 2452               | 15.78  | 17.00            |                             | 17.00            |                               | 17.00            |                 |       |
|                        |               | 10      | 2457               | 13.50  | 15.00            |                             | 15.00            |                               | 15.00            |                 |       |
| 11                     | 2462          | 13.77   | 15.50              | 15.50  | 15.50            |                             |                  |                               |                  |                 |       |



<2.4GHz WLAN Ant6+7>

| Ant 6+7                |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 2.4GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11b 1Mbps |         | 1                  | 2412   | 23.65            | 25.00                       | 22.01            | 23.00                         | 18.98            | 20.00           |
| 6                      |               |         | 2437               | 23.64  | 25.00            | 21.92                       | 23.00            | 18.90                         | 20.00            |                 |
| 11                     |               |         | 2462               | 21.14  | 22.50            | 21.14                       | 22.50            | 18.41                         | 20.00            |                 |
| 802.11g 6Mbps          |               | 1       | 2412               | 19.72  | 21.00            | 19.72                       | 21.00            | Not Required                  | 20.00            | 95.34           |
|                        |               | 2       | 2417               | 20.80  | 22.00            | 20.80                       | 22.00            |                               | 20.00            |                 |
|                        |               | 6       | 2437               | 22.63  | 24.00            | 22.24                       | 23.00            |                               | 20.00            |                 |
|                        |               | 9       | 2452               | 20.89  | 22.00            | 20.89                       | 22.00            |                               | 20.00            |                 |
|                        |               | 10      | 2457               | 17.99  | 19.00            | 17.99                       | 19.00            |                               | 19.00            |                 |
|                        |               | 11      | 2462               | 18.43  | 20.00            | 18.43                       | 20.00            |                               | 20.00            |                 |
| 802.11n-HT20<br>MCS0   |               | 1       | 2412               | 18.72  | 20.00            | Not Required                | 20.00            | Not Required                  | 19.50            | 94.98           |
|                        |               | 2       | 2417               | 20.12  | 21.50            |                             | 21.00            |                               | 20.00            |                 |
|                        |               | 6       | 2437               | 21.51  | 23.00            |                             | 23.00            |                               | 20.00            |                 |
|                        |               | 9       | 2452               | 18.57  | 20.00            |                             | 20.00            |                               | 20.00            |                 |
|                        |               | 10      | 2457               | 16.29  | 18.00            |                             | 18.00            |                               | 18.00            |                 |
|                        |               | 11      | 2462               | 16.32  | 18.00            |                             | 18.00            |                               | 18.00            |                 |
| 802.11ac-VHT20<br>MCS0 |               | 1       | 2412               | 18.68  | 20.00            | Not Required                | 20.00            | Not Required                  | 19.50            | 93.00           |
|                        |               | 2       | 2417               | 20.25  | 21.50            |                             | 21.50            |                               | 20.00            |                 |
|                        |               | 6       | 2437               | 21.55  | 23.00            |                             | 23.00            |                               | 20.00            |                 |
|                        |               | 9       | 2452               | 18.77  | 20.00            |                             | 20.00            |                               | 20.00            |                 |
|                        |               | 10      | 2457               | 16.44  | 18.00            |                             | 18.00            |                               | 18.00            |                 |
|                        |               | 11      | 2462               | 16.49  | 18.00            |                             | 18.00            |                               | 18.00            |                 |
| 802.11ax-HE20<br>MCS0  |               | 1       | 2412               | 18.73  | 20.00            | Not Required                | 20.00            | Not Required                  | 19.50            | 97.47           |
|                        |               | 2       | 2417               | 20.31  | 21.50            |                             | 21.50            |                               | 20.00            |                 |
|                        |               | 6       | 2437               | 21.60  | 23.00            |                             | 23.00            |                               | 20.00            |                 |
|                        |               | 9       | 2452               | 18.83  | 20.00            |                             | 20.00            |                               | 20.00            |                 |
|                        |               | 10      | 2457               | 16.54  | 18.00            |                             | 18.00            |                               | 18.00            |                 |
|                        |               | 11      | 2462               | 16.53  | 18.00            |                             | 18.00            |                               | 18.00            |                 |

<5GHz WLAN Ant6>

| Ant 6                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 5.2GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11a 6Mbps |         | 36                 | 5180   | 16.93            | 18.50                       | Not Required     | 13.50                         | Not Required     | 10.50           |
| 40                     |               |         | 5200               | 17.17  | 18.50            |                             |                  |                               |                  |                 |
| 44                     |               |         | 5220               | 17.17  | 18.50            |                             |                  |                               |                  |                 |
| 48                     |               |         | 5240               | 17.21  | 18.50            |                             |                  |                               |                  |                 |
| 802.11n-HT20<br>MCS0   |               | 36      | 5180               | 17.00  | 18.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 92.93           |
|                        |               | 40      | 5200               | 17.51  | 19.00            |                             |                  |                               |                  |                 |
|                        |               | 44      | 5220               | 17.38  | 19.00            |                             |                  |                               |                  |                 |
| 802.11n-HT40<br>MCS0   |               | 38      | 5190               | 15.46  | 17.00            | Not Required                | 13.50            | Not Required                  | 10.50            | 86.74           |
|                        |               | 46      | 5230               | 18.41  | 20.00            |                             |                  |                               |                  |                 |
| 802.11ac-VHT20<br>MCS0 |               | 36      | 5180               | 17.02  | 18.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 92.99           |
|                        |               | 40      | 5200               | 17.70  | 19.00            |                             |                  |                               |                  |                 |
|                        |               | 44      | 5220               | 17.57  | 19.00            |                             |                  |                               |                  |                 |
| 802.11ac-VHT40<br>MCS0 |               | 38      | 5190               | 15.48  | 17.00            | Not Required                | 13.50            | Not Required                  | 10.50            | 87.17           |
|                        |               | 46      | 5230               | 18.80  | 20.00            |                             |                  |                               |                  |                 |
| 802.11ac-VHT80<br>MCS0 |               | 42      | 5210               | 15.08  | 16.50            | 12.06                       | 13.50            | 9.16                          | 10.50            | 91.71           |
| 802.11ax-HE20<br>MCS0  |               | 36      | 5180               | 16.98  | 18.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 96.66           |
|                        |               | 40      | 5200               | 17.91  | 19.50            |                             |                  |                               |                  |                 |
|                        |               | 44      | 5220               | 17.52  | 19.00            |                             |                  |                               |                  |                 |
| 802.11ax-HE40<br>MCS0  |               | 38      | 5190               | 15.57  | 17.00            | Not Required                | 13.50            | Not Required                  | 10.50            | 94.99           |
|                        |               | 46      | 5230               | 18.94  | 20.00            |                             |                  |                               |                  |                 |
| 802.11ax-HE80<br>MCS0  |               | 42      | 5210               | 15.16  | 16.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 90.60           |





| Ant 6                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 5.3GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11a 6Mbps |         | 52                 | 5260   | 17.36            | 19.00                       | Not Required     | 13.50                         | Not Required     | 10.50           |
| 56                     |               |         | 5280               | 17.48  | 19.00            | 13.50                       |                  | 10.50                         |                  |                 |
| 60                     |               |         | 5300               | 17.71  | 19.00            | 13.50                       |                  | 10.50                         |                  |                 |
| 64                     |               |         | 5320               | 17.59  | 19.00            | 13.50                       |                  | 10.50                         |                  |                 |
| 802.11n-HT20<br>MCS0   |               | 52      | 5260               | 17.16  | 18.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 92.93           |
|                        |               | 56      | 5280               | 17.23  | 18.50            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 60      | 5300               | 17.34  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 64      | 5320               | 17.04  | 18.50            |                             | 13.50            |                               | 10.50            |                 |
| 802.11n-HT40<br>MCS0   |               | 54      | 5270               | 18.88  | 20.50            | 12.46                       | 13.50            | Not Required                  | 10.50            | 86.74           |
|                        |               | 62      | 5310               | 14.72  | 16.00            | 12.40                       | 13.50            |                               | 10.50            |                 |
| 802.11ac-VHT20<br>MCS0 |               | 52      | 5260               | 17.69  | 19.00            | Not Required                | 13.50            | Not Required                  | 10.50            | 92.99           |
|                        |               | 56      | 5280               | 17.58  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 60      | 5300               | 17.60  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 64      | 5320               | 17.46  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
| 802.11ac-VHT40<br>MCS0 |               | 54      | 5270               | 18.87  | 20.50            | 13.50                       | 13.50            | Not Required                  | 10.50            | 87.17           |
|                        |               | 62      | 5310               | 14.72  | 16.00            | 13.50                       | 10.50            |                               |                  |                 |
| 802.11ac-VHT80<br>MCS0 |               | 58      | 5290               | 14.04  | 15.50            | 12.57                       | 13.50            | 9.59                          | 10.50            | 91.71           |
| 802.11ax-HE20<br>MCS0  |               | 52      | 5260               | 17.32  | 19.00            | Not Required                | 13.50            | Not Required                  | 10.50            | 96.66           |
|                        |               | 56      | 5280               | 17.52  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 60      | 5300               | 17.46  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
|                        |               | 64      | 5320               | 17.54  | 19.00            |                             | 13.50            |                               | 10.50            |                 |
| 802.11ax-HE40<br>MCS0  |               | 54      | 5270               | 19.35  | 20.50            | Not Required                | 13.50            | Not Required                  | 10.50            | 94.99           |
|                        |               | 62      | 5310               | 14.76  | 16.50            |                             | 13.50            |                               | 10.50            |                 |
| 802.11ax-HE80<br>MCS0  |               | 58      | 5290               | 14.18  | 15.50            | 13.50                       | 13.50            | Not Required                  | 10.50            | 90.60           |



| Ant 6       |                     |                 |                     | Full power For Sensor off Standalone |                     | For Sensor on Standalone |                     | For Sensor on Simultaneous |                     | For Sensor off Simultaneous |       | Duty Cycle % |
|-------------|---------------------|-----------------|---------------------|--------------------------------------|---------------------|--------------------------|---------------------|----------------------------|---------------------|-----------------------------|-------|--------------|
| Mode        | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit                        | Average power (dBm) | Tune-Up Limit            | Average power (dBm) | Tune-Up Limit              | Average power (dBm) | Tune-Up Limit               |       |              |
| 5.5GHz WLAN | 802.11a 6Mbps       | 100             | 5500                | 18.14                                | 19.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 18.00 | 93.36        |
|             |                     | 116             | 5580                | 16.18                                | 17.50               |                          | 14.00               |                            | 11.00               |                             | 17.50 |              |
|             |                     | 124             | 5620                | 17.07                                | 18.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 132             | 5660                | 17.19                                | 18.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 140             | 5700                | 14.83                                | 16.50               |                          | 14.00               |                            | 11.00               |                             | 16.50 |              |
|             |                     | 144             | 5720                | 17.72                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11n-HT20 MCS0   | 100             | 5500                | 17.37                                | 19.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 18.00 | 92.93        |
|             |                     | 116             | 5580                | 17.35                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 124             | 5620                | 17.32                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 132             | 5660                | 17.16                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 140             | 5700                | 15.62                                | 17.00               |                          | 14.00               |                            | 11.00               |                             | 17.00 |              |
|             |                     | 144             | 5720                | 17.54                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11n-HT40 MCS0   | 102             | 5510                | 14.66                                | 16.00               | 12.48                    | 14.00               | Not Required               | 11.00               | Not Required                | 16.00 | 86.74        |
|             |                     | 110             | 5550                | 16.41                                | 18.00               | 12.40                    | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 126             | 5630                | 18.54                                | 20.00               | 12.49                    | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 134             | 5670                | 15.93                                | 17.50               | 12.35                    | 14.00               |                            | 11.00               |                             | 17.50 |              |
|             |                     | 142             | 5710                | 18.91                                | 20.50               | 12.37                    | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11ac-VHT20 MCS0 | 100             | 5500                | 17.47                                | 19.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 18.00 | 92.99        |
|             |                     | 116             | 5580                | 17.36                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 124             | 5620                | 17.41                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 132             | 5660                | 17.29                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 140             | 5700                | 15.65                                | 17.00               |                          | 14.00               |                            | 11.00               |                             | 17.00 |              |
|             |                     | 144             | 5720                | 17.65                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11ac-VHT40 MCS0 | 102             | 5510                | 14.69                                | 16.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 16.00 | 87.17        |
|             |                     | 110             | 5550                | 19.01                                | 20.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 126             | 5630                | 19.04                                | 20.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 134             | 5670                | 15.98                                | 17.50               |                          | 14.00               |                            | 11.00               |                             | 17.50 |              |
|             |                     | 142             | 5710                | 18.88                                | 20.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11ac-VHT80 MCS0 | 106             | 5530                | 14.07                                | 15.50               | 12.55                    | 14.00               | 9.56                       | 11.00               | 14.07                       | 15.50 | 91.71        |
|             |                     | 122             | 5610                | 17.10                                | 18.50               | 12.62                    | 14.00               | 9.65                       | 11.00               | 16.08                       | 18.00 |              |
|             |                     | 138             | 5690                | 19.23                                | 21.00               | 12.74                    | 14.00               | 9.78                       | 11.00               | 16.25                       | 18.00 |              |
|             | 802.11ax-HE20 MCS0  | 100             | 5500                | 17.48                                | 19.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 18.00 | 96.66        |
|             |                     | 116             | 5580                | 17.55                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 124             | 5620                | 17.53                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 132             | 5660                | 17.57                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 140             | 5700                | 15.66                                | 17.00               |                          | 14.00               |                            | 11.00               |                             | 17.00 |              |
|             |                     | 144             | 5720                | 17.67                                | 19.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             | 802.11ax-HE40 MCS0  | 102             | 5510                | 14.80                                | 16.50               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 16.50 | 94.99        |
|             |                     | 110             | 5550                | 19.28                                | 21.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 126             | 5630                | 19.27                                | 21.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 134             | 5670                | 16.10                                | 17.50               |                          | 14.00               |                            | 11.00               |                             | 17.50 |              |
|             | 802.11ax-HE80 MCS0  | 106             | 5530                | 14.26                                | 16.00               | Not Required             | 14.00               | Not Required               | 11.00               | Not Required                | 16.00 | 90.60        |
|             |                     | 122             | 5610                | 17.19                                | 18.50               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |
|             |                     | 138             | 5690                | 19.32                                | 21.00               |                          | 14.00               |                            | 11.00               |                             | 18.00 |              |



| Ant 6               |                     |         |                 | Full power For Sensor off Standalone |               | For Sensor on Standalone |               | For Sensor on Simultaneous |               | For Sensor off Simultaneous |               |              |
|---------------------|---------------------|---------|-----------------|--------------------------------------|---------------|--------------------------|---------------|----------------------------|---------------|-----------------------------|---------------|--------------|
| 5.8GHz WLAN         | Mode                | Channel | Frequency (MHz) | Average power (dBm)                  | Tune-Up Limit | Average power (dBm)      | Tune-Up Limit | Average power (dBm)        | Tune-Up Limit | Average power (dBm)         | Tune-Up Limit | Duty Cycle % |
|                     | 802.11a 6Mbps       | 149     | 5745            | 20.16                                | 20.50         | Not Required             | 14.00         | Not Required               | 11.00         | Not Required                | 20.00         | 93.36        |
|                     |                     | 157     | 5785            | 20.19                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     |                     | 165     | 5825            | 20.22                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     | 802.11n-HT20 MCS0   | 149     | 5745            | 20.12                                | 20.50         | Not Required             | 14.00         | Not Required               | 11.00         | Not Required                | 20.00         | 92.93        |
|                     |                     | 157     | 5785            | 20.23                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     |                     | 165     | 5825            | 20.21                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     | 802.11n-HT40 MCS0   | 151     | 5755            | 18.43                                | 20.00         | 12.89                    | 14.00         | Not Required               | 11.00         | Not Required                | 20.00         | 86.74        |
|                     |                     | 159     | 5795            | 18.36                                | 20.00         | 12.95                    | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     | 802.11ac-VHT20 MCS0 | 149     | 5745            | 20.15                                | 20.50         | Not Required             | 14.00         | Not Required               | 11.00         | Not Required                | 20.00         | 92.99        |
|                     |                     | 157     | 5785            | 20.12                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     |                     | 165     | 5825            | 20.28                                | 20.50         |                          | 14.00         |                            | 11.00         |                             | 20.00         |              |
|                     | 802.11ac-VHT40 MCS0 | 151     | 5755            | 18.59                                | 20.00         | Not Required             | 14.00         | Not Required               | 11.00         | Not Required                | 20.00         | 87.17        |
| 159                 |                     | 5795    | 18.47           | 20.00                                | 14.00         |                          | 11.00         |                            | 20.00         |                             |               |              |
| 802.11ac-VHT80 MCS0 | 155                 | 5775    | 19.04           | 20.50                                | 13.02         | 14.00                    | 10.05         | 11.00                      | 19.04         | 20.00                       | 91.71         |              |
| 802.11ax-HE20 MCS0  | 149                 | 5745    | 20.14           | 20.50                                | Not Required  | 14.00                    | Not Required  | 11.00                      | Not Required  | 20.00                       | 96.66         |              |
|                     | 157                 | 5785    | 20.09           | 20.50                                |               | 14.00                    |               | 11.00                      |               | 20.00                       |               |              |
|                     | 165                 | 5825    | 20.28           | 20.50                                |               | 14.00                    |               | 11.00                      |               | 20.00                       |               |              |
| 802.11ax-HE40 MCS0  | 151                 | 5755    | 18.91           | 20.00                                | Not Required  | 14.00                    | Not Required  | 11.00                      | Not Required  | 20.00                       | 94.99         |              |
|                     | 159                 | 5795    | 18.80           | 20.00                                |               | 14.00                    |               | 11.00                      |               | 20.00                       |               |              |
| 802.11ax-HE80 MCS0  | 155                 | 5775    | 19.55           | 20.00                                | Not Required  | 14.00                    | Not Required  | 11.00                      | Not Required  | 20.00                       | 90.60         |              |

<5GHz WLAN Ant7>

| Ant 7                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |       |       |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|-------|-------|
| 5.2GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |       |       |
|                        | 802.11a 6Mbps |         | 36                 | 5180   | 17.32            | 19.00                       | Not Required     | 15.00                         | Not Required     | 13.00           | 93.36 |       |
| 40                     |               |         | 5200               | 17.77  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 44                     |               |         | 5220               | 17.94  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 48                     |               |         | 5240               | 18.00  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 802.11n-HT20<br>MCS0   |               | 36      | 5180               | 17.44  | 19.00            | 15.00                       |                  | 13.00                         |                  | 92.96           |       |       |
|                        |               | 40      | 5200               | 18.04  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
|                        |               | 44      | 5220               | 17.18  | 18.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 802.11n-HT40<br>MCS0   |               | 38      | 5190               | 15.30  | 17.00            | 15.00                       |                  | 13.00                         |                  | 86.74           |       |       |
|                        |               | 46      | 5230               | 19.01  | 20.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 802.11ac-VHT20<br>MCS0 |               | 36      | 5180               | 17.48  | 19.00            | 15.00                       |                  | 13.00                         |                  | 92.99           |       |       |
|                        |               | 40      | 5200               | 18.19  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
|                        |               | 44      | 5220               | 18.30  | 20.00            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 802.11ac-VHT40<br>MCS0 |               | 38      | 5190               | 15.31  | 17.00            | 15.00                       |                  | 13.00                         |                  | 87.17           |       |       |
|                        |               | 46      | 5230               | 18.80  | 20.50            | 15.00                       |                  | 13.00                         |                  |                 |       |       |
| 802.11ac-VHT80<br>MCS0 |               | 42      | 5210               | 15.47  | 17.00            | 14.01                       |                  | 15.00                         |                  | 11.98           | 13.00 | 91.71 |
| 802.11ax-HE20<br>MCS0  |               | 36      | 5180               | 17.52  | 19.00            | Not Required                |                  | 15.00                         |                  | Not Required    | 13.00 | 96.66 |
|                        |               | 40      | 5200               | 18.31  | 20.00            |                             | 15.00            | 13.00                         |                  |                 |       |       |
|                        |               | 44      | 5220               | 18.39  | 20.00            |                             | 15.00            | 13.00                         |                  |                 |       |       |
|                        |               | 48      | 5240               | 18.21  | 19.50            |                             | 15.00            | 13.00                         |                  |                 |       |       |
| 802.11ax-HE40<br>MCS0  |               | 38      | 5190               | 15.30  | 17.00            |                             | 15.00            | 13.00                         | 94.99            |                 |       |       |
|                        |               | 46      | 5230               | 19.27  | 20.50            |                             | 15.00            | 13.00                         |                  |                 |       |       |
| 802.11ax-HE80<br>MCS0  |               | 42      | 5210               | 15.52  | 17.00            |                             | 15.00            | 13.00                         | 90.60            |                 |       |       |



| Ant 7                  |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 5.3GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average power<br>(dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11a 6Mbps |         | 52                 | 5260   | 18.14            | 19.50                       | Not Required     | 15.00                         | Not Required     | 13.00           |
| 56                     |               |         | 5280               | 17.85  | 19.50            | 15.00                       |                  | 13.00                         |                  |                 |
| 60                     |               |         | 5300               | 17.68  | 19.00            | 15.00                       |                  | 13.00                         |                  |                 |
| 64                     |               |         | 5320               | 17.67  | 19.00            | 15.00                       |                  | 13.00                         |                  |                 |
| 802.11n-HT20<br>MCS0   |               | 52      | 5260               | 17.90  | 19.50            | Not Required                | 15.00            | Not Required                  | 13.00            | 92.96           |
|                        |               | 56      | 5280               | 17.56  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
|                        |               | 60      | 5300               | 17.56  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
| 802.11n-HT40<br>MCS0   |               | 54      | 5270               | 19.04  | 20.50            | 14.03                       | 15.00            | Not Required                  | 13.00            | 86.74           |
|                        |               | 62      | 5310               | 14.87  | 16.50            | 13.87                       | 15.00            |                               | 13.00            |                 |
| 802.11ac-VHT20<br>MCS0 |               | 52      | 5260               | 17.73  | 19.00            | Not Required                | 15.00            | Not Required                  | 13.00            | 92.99           |
|                        |               | 56      | 5280               | 17.32  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
|                        |               | 60      | 5300               | 17.37  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
| 802.11ac-VHT40<br>MCS0 |               | 54      | 5270               | 19.07  | 20.50            | Not Required                | 15.00            | Not Required                  | 13.00            | 87.17           |
|                        |               | 62      | 5310               | 14.85  | 16.50            |                             | 15.00            |                               | 13.00            |                 |
| 802.11ac-VHT80<br>MCS0 |               | 58      | 5290               | 14.13  | 15.50            | 14.33                       | 15.00            | 12.11                         | 13.00            | 91.71           |
| 802.11ax-HE20<br>MCS0  |               | 52      | 5260               | 18.24  | 19.50            | Not Required                | 15.00            | Not Required                  | 13.00            | 96.66           |
|                        |               | 56      | 5280               | 17.63  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
|                        |               | 60      | 5300               | 17.61  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
|                        |               | 64      | 5320               | 17.48  | 19.00            |                             | 15.00            |                               | 13.00            |                 |
| 802.11ax-HE40<br>MCS0  |               | 54      | 5270               | 19.23  | 20.50            | Not Required                | 15.00            | Not Required                  | 13.00            | 94.99           |
|                        |               | 62      | 5310               | 14.90  | 16.50            |                             | 15.00            |                               | 13.00            |                 |
| 802.11ax-HE80<br>MCS0  |               | 58      | 5290               | 14.27  | 16.00            | Not Required                | 15.00            | Not Required                  | 13.00            | 90.60           |

| Ant 7                 |                        |                    |                           | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                        | For Sensor on<br>Standalone |                        | For Sensor on<br>Simultaneous |       | Duty<br>Cycle % |
|-----------------------|------------------------|--------------------|---------------------------|--|------------------------|-----------------------------|------------------------|-------------------------------|-------|-----------------|
| Mode                  | Channel                | Frequency<br>(MHz) | Average<br>power<br>(dBm) | Tune-Up<br>Limit   | Average<br>power (dBm) | Tune-Up<br>Limit            | Average<br>power (dBm) | Tune-Up<br>Limit              |       |                 |
| 5.5GHz<br>WLAN        | 802.11a 6Mbps          | 100                | 5500                      | 18.22  | 19.50                  | Not Required                | 13.50                  | Not Required                  | 10.50 | 93.36           |
|                       |                        | 116                | 5580                      | 16.65  | 18.00                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 124                | 5620                      | 17.70  | 19.00                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 132                | 5660                      | 17.73  | 19.00                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 140                | 5700                      | 15.06  | 16.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 144                | 5720                      | 18.26  | 20.00                  |                             | 13.50                  |                               | 10.50 |                 |
|                       | 802.11n-HT20<br>MCS0   | 100                | 5500                      | 17.89  | 19.50                  | Not Required                | 13.50                  | Not Required                  | 10.50 | 92.96           |
|                       |                        | 116                | 5580                      | 17.77  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 124                | 5620                      | 17.87  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 132                | 5660                      | 17.93  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 140                | 5700                      | 15.78  | 17.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 144                | 5720                      | 18.22  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       | 802.11n-HT40<br>MCS0   | 102                | 5510                      | 14.76  | 16.50                  | 12.42                       | 13.50                  | Not Required                  | 10.50 | 86.74           |
|                       |                        | 110                | 5550                      | 16.49  | 18.00                  | 12.30                       | 13.50                  |                               | 10.50 |                 |
|                       |                        | 126                | 5630                      | 19.09  | 20.50                  | 12.35                       | 13.50                  |                               | 10.50 |                 |
|                       |                        | 134                | 5670                      | 16.01  | 17.50                  | 12.16                       | 13.50                  |                               | 10.50 |                 |
|                       |                        | 142                | 5710                      | 18.93  | 20.50                  | 12.30                       | 13.50                  |                               | 10.50 |                 |
|                       | 802.11ac-VHT20<br>MCS0 | 100                | 5500                      | 17.95  | 19.50                  | Not Required                | 13.50                  | Not Required                  | 10.50 | 92.99           |
|                       |                        | 116                | 5580                      | 17.88  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 124                | 5620                      | 17.89  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 132                | 5660                      | 17.97  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 140                | 5700                      | 15.87  | 17.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 144                | 5720                      | 18.21  | 19.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       | 802.11ac-VHT40<br>MCS0 | 102                | 5510                      | 14.72  | 16.00                  | Not Required                | 13.50                  | Not Required                  | 10.50 | 87.17           |
|                       |                        | 110                | 5550                      | 18.83  | 20.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 126                | 5630                      | 18.97  | 20.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 134                | 5670                      | 15.95  | 17.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       |                        | 142                | 5710                      | 19.18  | 20.50                  |                             | 13.50                  |                               | 10.50 |                 |
|                       | 802.11ac-VHT80<br>MCS0 | 106                | 5530                      | 13.97  | 15.50                  | 11.98                       | 13.50                  | 9.01                          | 10.50 | 91.71           |
|                       |                        | 122                | 5610                      | 17.16  | 18.50                  | 12.35                       | 13.50                  | 9.14                          | 10.50 |                 |
| 138                   |                        | 5690               | 19.60                     | 21.00  | 12.59                  | 13.50                       | 9.56                   | 10.50                         |       |                 |
| 802.11ax-HE20<br>MCS0 | 100                    | 5500               | 17.99                     | 19.50  | Not Required           | 13.50                       | Not Required           | 10.50                         | 96.66 |                 |
|                       | 116                    | 5580               | 17.85                     | 19.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 124                    | 5620               | 17.99                     | 19.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 132                    | 5660               | 18.05                     | 19.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 140                    | 5700               | 15.99                     | 17.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 144                    | 5720               | 18.19                     | 19.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
| 802.11ax-HE40<br>MCS0 | 102                    | 5510               | 14.77                     | 16.50  | Not Required           | 13.50                       | Not Required           | 10.50                         | 94.99 |                 |
|                       | 110                    | 5550               | 19.21                     | 20.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 126                    | 5630               | 19.43                     | 21.00  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 134                    | 5670               | 16.21                     | 17.50  |                        | 13.50                       |                        | 10.50                         |       |                 |
| 802.11ax-HE80<br>MCS0 | 106                    | 5530               | 14.09                     | 15.50  | Not Required           | 13.50                       | Not Required           | 10.50                         | 90.60 |                 |
|                       | 122                    | 5610               | 17.26                     | 19.00  |                        | 13.50                       |                        | 10.50                         |       |                 |
|                       | 138                    | 5690               | 19.66                     | 21.00  |                        | 13.50                       |                        | 10.50                         |       |                 |



| Ant 7                 |                        |                    |                           | Full power<br>For Sensor off<br>Standalone |                        | For Sensor on<br>Standalone |                        | For Sensor on<br>Simultaneous |                        | For Sensor off<br>Simultaneous |       | Duty<br>Cycle % |
|-----------------------|------------------------|--------------------|---------------------------|--|------------------------|-----------------------------|------------------------|-------------------------------|------------------------|--------------------------------|-------|-----------------|
| Mode                  | Channel                | Frequency<br>(MHz) | Average<br>power<br>(dBm) | Tune-Up<br>Limit                           | Average<br>power (dBm) | Tune-Up<br>Limit            | Average<br>power (dBm) | Tune-Up<br>Limit              | Average<br>power (dBm) | Tune-Up<br>Limit               |       |                 |
| 5.8GHz<br>WLAN        | 802.11a 6Mbps          | 149                | 5745                      | 20.46                                      | 22.00                  | Not Required                | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 93.36           |
|                       |                        | 157                | 5785                      | 20.39                                      | 22.00                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       |                        | 165                | 5825                      | 20.38                                      | 22.00                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       | 802.11n-HT20<br>MCS0   | 149                | 5745                      | 20.30                                      | 22.00                  | Not Required                | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 92.96           |
|                       |                        | 157                | 5785                      | 20.16                                      | 22.00                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       |                        | 165                | 5825                      | 19.97                                      | 21.50                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       | 802.11n-HT40<br>MCS0   | 151                | 5755                      | 18.87                                      | 20.50                  | 12.13                       | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 86.74           |
|                       |                        | 159                | 5795                      | 18.59                                      | 20.00                  | 12.09                       | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       | 802.11ac-VHT20<br>MCS0 | 149                | 5745                      | 20.37                                      | 22.00                  | Not Required                | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 92.99           |
|                       |                        | 157                | 5785                      | 20.33                                      | 22.00                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       |                        | 165                | 5825                      | 20.02                                      | 22.00                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       | 802.11ac-VHT40<br>MCS0 | 151                | 5755                      | 18.92                                      | 20.50                  | Not Required                | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 87.17           |
|                       |                        | 159                | 5795                      | 18.81                                      | 20.50                  |                             | 13.00                  |                               | 10.00                  |                                | 20.00 |                 |
|                       | 802.11ac-VHT80<br>MCS0 | 155                | 5775                      | 19.30                                      | 21.00                  | 12.29                       | 13.00                  | 9.28                          | 10.00                  | 19.30                          | 20.00 | 91.71           |
|                       | 802.11ax-HE20<br>MCS0  | 149                | 5745                      | 20.39                                      | 22.00                  | Not Required                | 13.00                  | Not Required                  | 10.00                  | Not Required                   | 20.00 | 96.66           |
| 157                   |                        | 5785               | 20.47                     | 22.00                                      | 13.00                  |                             | 10.00                  |                               | 20.00                  |                                |       |                 |
| 165                   |                        | 5825               | 20.14                     | 22.00                                      | 13.00                  |                             | 10.00                  |                               | 20.00                  |                                |       |                 |
| 802.11ax-HE40<br>MCS0 | 151                    | 5755               | 19.14                     | 20.50                                      | Not Required           | 13.00                       | Not Required           | 10.00                         | Not Required           | 20.00                          | 94.99 |                 |
|                       | 159                    | 5795               | 19.05                     | 20.50                                      |                        | 13.00                       |                        | 10.00                         |                        | 20.00                          |       |                 |
| 802.11ax-HE80<br>MCS0 | 155                    | 5775               | 19.21                     | 20.50                                      | Not Required           | 13.00                       | Not Required           | 10.00                         | Not Required           | 20.00                          | 90.60 |                 |

**<5GHz WLAN Ant6+7>**

| Ant 6+7                |                |               |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |       |       |
|------------------------|----------------|---------------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|-------|-------|
| 5.2GHz<br>WLAN         | Mode           | Channel       | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |       |       |
|                        | 5.2GHz<br>WLAN | 802.11a 6Mbps | 36                 | 5180   | 20.14            | 22.00                       | Not Required     | 17.00                         | Not Required     | 14.50           | 93.36 |       |
| 40                     |                |               | 5200               | 20.49  | 22.00            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 44                     |                |               | 5220               | 20.58  | 22.00            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 48                     |                |               | 5240               | 20.63  | 22.00            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 802.11n-HT20<br>MCS0   |                | 36            | 5180               | 20.23  | 22.00            | 17.00                       |                  | 14.50                         |                  | 92.96           |       |       |
|                        |                | 40            | 5200               | 20.79  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
|                        |                | 44            | 5220               | 20.29  | 22.00            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 802.11n-HT40<br>MCS0   |                | 38            | 5190               | 18.39  | 20.00            | 17.00                       |                  | 14.50                         |                  | 86.74           |       |       |
|                        |                | 46            | 5230               | 21.73  | 23.50            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 802.11ac-VHT20<br>MCS0 |                | 36            | 5180               | 20.26  | 22.00            | 17.00                       |                  | 14.50                         |                  | 92.99           |       |       |
|                        |                | 40            | 5200               | 20.96  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
|                        |                | 44            | 5220               | 20.96  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 802.11ac-VHT40<br>MCS0 |                | 38            | 5190               | 18.40  | 20.00            | 17.00                       |                  | 14.50                         |                  | 87.17           |       |       |
|                        |                | 46            | 5230               | 21.81  | 23.50            | 17.00                       |                  | 14.50                         |                  |                 |       |       |
| 802.11ac-VHT80<br>MCS0 |                | 42            | 5210               | 18.29  | 20.00            | 16.15                       |                  | 17.00                         |                  | 13.81           | 14.50 | 91.71 |
| 802.11ax-HE20<br>MCS0  |                | 36            | 5180               | 20.27  | 22.00            | Not Required                |                  | 17.00                         |                  | Not Required    | 14.50 | 96.66 |
|                        | 40             | 5200          | 21.12              | 22.50  | 17.00            |                             | 14.50            |                               |                  |                 |       |       |
|                        | 44             | 5220          | 20.98              | 22.50  | 17.00            |                             | 14.50            |                               |                  |                 |       |       |
| 802.11ax-HE40<br>MCS0  | 38             | 5190          | 18.45              | 20.00  | 17.00            |                             | 14.50            | 94.99                         |                  |                 |       |       |
|                        | 46             | 5230          | 22.12              | 23.50  | 17.00            |                             | 14.50            |                               |                  |                 |       |       |
| 802.11ax-HE80<br>MCS0  | 42             | 5210          | 18.35              | 20.00  | 17.00            |                             | 14.50            | 90.60                         |                  |                 |       |       |





| Ant 6+7                |               |         |                    | Full power<br>For Sensor off<br>Standalone<br>For Sensor off<br>Simultaneous |                  | For Sensor on<br>Standalone |                  | For Sensor on<br>Simultaneous |                  |                 |
|------------------------|---------------|---------|--------------------|--|------------------|-----------------------------|------------------|-------------------------------|------------------|-----------------|
| 5.3GHz<br>WLAN         | Mode          | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm)      | Tune-Up<br>Limit | Average<br>power (dBm)        | Tune-Up<br>Limit | Duty<br>Cycle % |
|                        | 802.11a 6Mbps |         | 52                 | 5260   | 20.78            | 22.50                       | Not Required     | 17.00                         | Not Required     | 14.50           |
| 56                     |               |         | 5280               | 20.68  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |
| 60                     |               |         | 5300               | 20.70  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |
| 64                     |               |         | 5320               | 20.64  | 22.50            | 17.00                       |                  | 14.50                         |                  |                 |
| 802.11n-HT20<br>MCS0   |               | 52      | 5260               | 20.55  | 22.00            | Not Required                | 17.00            | Not Required                  | 14.50            | 92.96           |
|                        |               | 56      | 5280               | 20.41  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
|                        |               | 60      | 5300               | 20.46  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
| 802.11n-HT40<br>MCS0   |               | 54      | 5270               | 21.97  | 23.50            | 16.33                       | 17.00            | Not Required                  | 14.50            | 86.74           |
|                        |               | 62      | 5310               | 17.80  | 19.50            | 16.21                       | 17.00            |                               | 14.50            |                 |
| 802.11ac-VHT20<br>MCS0 |               | 52      | 5260               | 20.72  | 22.50            | Not Required                | 17.00            | Not Required                  | 14.50            | 92.99           |
|                        |               | 56      | 5280               | 20.46  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
|                        |               | 60      | 5300               | 20.49  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
| 802.11ac-VHT40<br>MCS0 |               | 54      | 5270               | 21.98  | 23.50            | Not Required                | 17.00            | Not Required                  | 14.50            | 87.17           |
|                        |               | 62      | 5310               | 17.79  | 19.50            |                             | 17.00            |                               | 14.50            |                 |
| 802.11ac-VHT80<br>MCS0 |               | 58      | 5290               | 17.09  | 18.50            | 16.55                       | 17.00            | 14.04                         | 14.50            | 91.71           |
| 802.11ax-HE20<br>MCS0  |               | 52      | 5260               | 20.81  | 22.50            | Not Required                | 17.00            | Not Required                  | 14.50            | 96.66           |
|                        |               | 56      | 5280               | 20.58  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
|                        |               | 60      | 5300               | 20.54  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
|                        |               | 64      | 5320               | 20.52  | 22.00            |                             | 17.00            |                               | 14.50            |                 |
| 802.11ax-HE40<br>MCS0  |               | 54      | 5270               | 22.30  | 24.00            | Not Required                | 17.00            | Not Required                  | 14.50            | 94.99           |
|                        |               | 62      | 5310               | 17.84  | 19.50            |                             | 17.00            |                               | 14.50            |                 |
| 802.11ax-HE80<br>MCS0  |               | 58      | 5290               | 17.23  | 19.00            | Not Required                | 17.00            | Not Required                  | 14.50            | 90.60           |



| Ant 6+7            |                     |                 |                     | Full power For Sensor off Standalone |                     | For Sensor on Standalone |                     | For Sensor on Simultaneous |                     | For Sensor off Simultaneous |       | Duty Cycle % |
|--------------------|---------------------|-----------------|---------------------|--------------------------------------|---------------------|--------------------------|---------------------|----------------------------|---------------------|-----------------------------|-------|--------------|
| Mode               | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit                        | Average power (dBm) | Tune-Up Limit            | Average power (dBm) | Tune-Up Limit              | Average power (dBm) | Tune-Up Limit               |       |              |
| 5.5GHz WLAN        | 802.11a 6Mbps       | 100             | 5500                | 21.19                                | 23.00               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 21.50 | 93.36        |
|                    |                     | 116             | 5580                | 19.43                                | 21.00               |                          | 16.50               |                            | 13.50               |                             | 20.50 |              |
|                    |                     | 124             | 5620                | 20.41                                | 22.00               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 132             | 5660                | 20.48                                | 22.00               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 140             | 5700                | 17.96                                | 19.50               |                          | 16.50               |                            | 13.50               |                             | 19.50 |              |
|                    |                     | 144             | 5720                | 21.01                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    | 802.11n-HT20 MCS0   | 100             | 5500                | 20.65                                | 22.00               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 21.50 | 92.96        |
|                    |                     | 116             | 5580                | 20.57                                | 22.00               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 124             | 5620                | 20.61                                | 22.00               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 132             | 5660                | 20.57                                | 22.00               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 140             | 5700                | 18.71                                | 20.50               |                          | 16.50               |                            | 13.50               |                             | 20.00 |              |
|                    | 802.11n-HT40 MCS0   | 102             | 5510                | 17.72                                | 19.50               | 15.46                    | 16.50               | Not Required               | 13.50               | Not Required                | 19.00 | 86.74        |
|                    |                     | 110             | 5550                | 19.46                                | 21.00               | 15.36                    | 16.50               |                            | 13.50               |                             | 21.00 |              |
|                    |                     | 126             | 5630                | 21.83                                | 23.50               | 15.43                    | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    |                     | 134             | 5670                | 18.98                                | 20.50               | 15.27                    | 16.50               |                            | 13.50               |                             | 20.50 |              |
|                    | 802.11ac-VHT20 MCS0 | 100             | 5500                | 20.72                                | 22.50               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 21.50 | 92.99        |
|                    |                     | 116             | 5580                | 20.63                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 124             | 5620                | 20.66                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 132             | 5660                | 20.65                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 140             | 5700                | 18.77                                | 20.50               |                          | 16.50               |                            | 13.50               |                             | 20.00 |              |
|                    | 802.11ac-VHT40 MCS0 | 102             | 5510                | 17.71                                | 19.50               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 19.00 | 87.17        |
|                    |                     | 110             | 5550                | 21.93                                | 23.50               |                          | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    |                     | 126             | 5630                | 22.01                                | 23.50               |                          | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    |                     | 134             | 5670                | 18.97                                | 20.50               |                          | 16.50               |                            | 13.50               |                             | 20.50 |              |
|                    |                     | 142             | 5710                | 22.04                                | 23.50               |                          | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    | 802.11ac-VHT80 MCS0 | 106             | 5530                | 20.14                                | 21.50               | 15.28                    | 16.50               | 12.30                      | 13.50               | 17.03                       | 18.50 | 91.71        |
|                    |                     | 122             | 5610                | 22.43                                | 24.00               | 15.50                    | 16.50               | 12.41                      | 13.50               | 19.66                       | 21.00 |              |
|                    |                     | 138             | 5690                | 22.18                                | 23.50               | 15.68                    | 16.50               | 12.68                      | 13.50               | 21.25                       | 22.50 |              |
|                    | 802.11ax-HE20 MCS0  | 100             | 5500                | 20.75                                | 22.50               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 21.50 | 96.66        |
|                    |                     | 116             | 5580                | 20.71                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 124             | 5620                | 20.77                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 132             | 5660                | 20.82                                | 22.50               |                          | 16.50               |                            | 13.50               |                             | 21.50 |              |
|                    |                     | 140             | 5700                | 18.84                                | 20.50               |                          | 16.50               |                            | 13.50               |                             | 20.00 |              |
|                    | 802.11ax-HE40 MCS0  | 102             | 5510                | 17.80                                | 19.50               | Not Required             | 16.50               | Not Required               | 13.50               | Not Required                | 19.50 | 94.99        |
|                    |                     | 110             | 5550                | 22.26                                | 24.00               |                          | 16.50               |                            | 13.50               |                             | 22.00 |              |
|                    |                     | 126             | 5630                | 22.36                                | 24.00               |                          | 16.50               |                            | 13.50               |                             | 22.50 |              |
| 134                |                     | 5670            | 19.17               | 20.50                                | 16.50               |                          | 13.50               |                            | 20.50               |                             |       |              |
| 802.11ax-HE80 MCS0 | 106                 | 5530            | 17.18               | 18.50                                | Not Required        | 16.50                    | Not Required        | 13.50                      | Not Required        | 18.50                       | 90.60 |              |
|                    | 122                 | 5610            | 20.23               | 22.00                                |                     | 16.50                    |                     | 13.50                      |                     | 21.50                       |       |              |
|                    | 138                 | 5690            | 22.50               | 24.00                                |                     | 16.50                    |                     | 13.50                      |                     | 22.50                       |       |              |



| Ant 6+7            |                     |                 |                     | Full power For Sensor off Standalone |                     | For Sensor on Standalone |                     | For Sensor on Simultaneous |                     | For Sensor off Simultaneous |       | Duty Cycle % |
|--------------------|---------------------|-----------------|---------------------|--------------------------------------|---------------------|--------------------------|---------------------|----------------------------|---------------------|-----------------------------|-------|--------------|
| Mode               | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit                        | Average power (dBm) | Tune-Up Limit            | Average power (dBm) | Tune-Up Limit              | Average power (dBm) | Tune-Up Limit               |       |              |
| 5.8GHz WLAN        | 802.11a 6Mbps       | 149             | 5745                | 23.32                                | 25.00               | Not Required             | 16.50               | Not Required               | 13.50               | 23.00                       | 93.36 |              |
|                    |                     | 157             | 5785                | 23.30                                | 25.00               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    |                     | 165             | 5825                | 23.31                                | 25.00               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    | 802.11n-HT20 MCS0   | 149             | 5745                | 23.22                                | 25.00               | Not Required             | 16.50               | Not Required               | 13.50               | 23.00                       | 92.96 |              |
|                    |                     | 157             | 5785                | 23.20                                | 25.00               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    |                     | 165             | 5825                | 23.10                                | 24.50               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    | 802.11n-HT40 MCS0   | 151             | 5755                | 21.66                                | 23.50               | 15.54                    | 16.50               | Not Required               | 13.50               | Not Required                | 23.00 | 86.74        |
|                    |                     | 159             | 5795                | 21.48                                | 23.00               | 15.55                    | 16.50               |                            | 13.50               |                             | 23.00 |              |
|                    | 802.11ac-VHT20 MCS0 | 149             | 5745                | 23.27                                | 25.00               | Not Required             | 16.50               | Not Required               | 13.50               | 23.00                       | 92.99 |              |
|                    |                     | 157             | 5785                | 23.23                                | 25.00               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    |                     | 165             | 5825                | 23.16                                | 24.50               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    | 802.11ac-VHT40 MCS0 | 151             | 5755                | 21.76                                | 23.50               | Not Required             | 16.50               | Not Required               | 13.50               | 23.00                       | 87.17 |              |
|                    |                     | 159             | 5795                | 21.65                                | 23.50               |                          | 16.50               |                            | 13.50               |                             |       |              |
|                    | 802.11ac-VHT80 MCS0 | 155             | 5775                | 22.18                                | 23.50               | 15.68                    | 16.50               | 12.69                      | 13.50               | 22.18                       | 23.00 | 91.71        |
|                    | 802.11ax-HE20 MCS0  | 149             | 5745                | 23.27                                | 25.00               | Not Required             | 16.50               | Not Required               | 13.50               | 23.00                       | 96.66 |              |
| 157                |                     | 5785            | 23.29               | 25.00                                | 16.50               |                          | 13.50               |                            |                     |                             |       |              |
| 165                |                     | 5825            | 23.22               | 25.00                                | 16.50               |                          | 13.50               |                            |                     |                             |       |              |
| 802.11ax-HE40 MCS0 | 151                 | 5755            | 22.04               | 23.50                                | Not Required        | 16.50                    | Not Required        | 13.50                      | Not Required        | 23.00                       | 94.99 |              |
|                    | 159                 | 5795            | 21.94               | 23.50                                |                     | 16.50                    |                     | 13.50                      |                     | 23.00                       |       |              |
| 802.11ax-HE80 MCS0 | 155                 | 5775            | 22.39               | 24.00                                | Not Required        | 16.50                    | Not Required        | 13.50                      | Not Required        | 23.00                       | 90.60 |              |

<Beamforming mode>

<2.4GHz WLAN Ant6>

| 2.4GHz WLAN Ant 6 |                    |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |
|-------------------|--------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|
| 2.4GHz WLAN       | Mode               | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |
|                   | 802.11ax-HE20 MCS0 | 1       | 15.49           | 15.49  | 17.00         | 15.49                | 17.00         | 15.49                  | 17.00         | 46.50        |
|                   |                    | 6       | 2437            | 18.41  | 20.00         | 18.41                | 20.00         | 15.36                  | 17.50         |              |
|                   |                    | 11      | 2462            | 13.27  | 15.00         | 13.27                | 15.00         | 13.27                  | 15.00         |              |

<2.4GHz WLAN Ant7>

| Ant 7       |                    |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |
|-------------|--------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.82  | 17.50         | 15.82                | 17.50         | 13.32                  | 14.50         | 44.30        |
|             |                    | 6       | 2437            | 18.19  | 19.50         | 18.19                | 19.50         | 15.12                  | 16.50         |              |
|             |                    | 11      | 2462            | 13.69  | 15.00         | 13.69                | 15.00         | 13.69                  | 15.00         |              |

<2.4GHz WLAN Ant6+7>

| Ant 6+7     |                    |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |
|-------------|--------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 18.67  | 20.00         | 18.67                | 20.00         | 17.55                  | 18.50         | 46.50        |
|             |                    | 6       | 2437            | 21.31  | 23.00         | 21.31                | 22.50         | 18.25                  | 20.00         |              |
|             |                    | 11      | 2462            | 16.50  | 18.00         | 16.50                | 18.00         | 16.50                  | 18.00         |              |

**<5GHz WLAN Ant6>**

| 5.2GHz WLAN Ant 6  |                   |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |       |       |
|--------------------|-------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|-------|-------|
| 5.2GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |       |       |
|                    | 802.11n-HT20 MCS0 |         | 36              | 5180   | 16.72         | 18.00                | Not Required  | 13.50                  |               | 10.50        | 48.80 |       |
| 40                 |                   |         | 5200            | 17.39  | 19.00         | 13.50                |               | 10.50                  |               |              |       |       |
| 44                 |                   |         | 5220            | 17.05  | 19.00         | 13.50                |               | 10.50                  |               |              |       |       |
| 48                 |                   |         | 5240            | 17.19  | 19.00         | 13.50                |               | 10.50                  |               |              |       |       |
| 802.11n-HT40 MCS0  |                   | 38      | 5190            | 15.05  | 17.00         | 13.50                |               | 10.50                  |               | 35.20        |       |       |
|                    |                   | 46      | 5230            | 18.30  | 20.00         | 13.50                |               | 10.50                  |               |              |       |       |
| 802.11ax-HE20 MCS0 |                   | 36      | 5180            | 16.87  | 18.50         | Not Required         |               | 13.50                  |               |              | 10.50 | 48.80 |
|                    |                   | 40      | 5200            | 17.68  | 19.00         |                      |               | 13.50                  |               |              | 10.50 |       |
|                    |                   | 44      | 5220            | 17.41  | 19.00         |                      |               | 13.50                  |               |              | 10.50 |       |
|                    |                   | 48      | 5240            | 17.34  | 19.00         |                      |               | 13.50                  |               |              | 10.50 |       |
| 802.11ax-HE40 MCS0 |                   | 38      | 5190            | 15.12  | 16.50         |                      | 13.50         | 10.50                  | 35.90         |              |       |       |
|                    |                   | 46      | 5230            | 18.59  | 20.00         |                      | 13.50         | 10.50                  |               |              |       |       |
| 802.11ax-HE80 MCS0 |                   | 42      | 5210            | 15.06  | 16.50         |                      | 12.02         | 13.50                  | 8.98          |              | 10.50 | 20.70 |

| 5.3GHz WLAN Ant 6  |                   |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |       |       |
|--------------------|-------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|-------|-------|
| 5.3GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |       |       |
|                    | 802.11n-HT20 MCS0 |         | 52              | 5260   | 17.14         | 18.50                | Not Required  | 12.50                  | Not Required  | 9.50         | 48.80 |       |
| 56                 |                   |         | 5280            | 17.13  | 18.50         | 12.50                |               | 9.50                   |               |              |       |       |
| 60                 |                   |         | 5300            | 17.09  | 18.50         | 12.50                |               | 9.50                   |               |              |       |       |
| 64                 |                   |         | 5320            | 17.17  | 18.50         | 12.50                |               | 9.50                   |               |              |       |       |
| 802.11n-HT40 MCS0  |                   | 54      | 5270            | 18.63  | 20.00         | 12.50                |               | 9.50                   |               | 35.20        |       |       |
|                    |                   | 62      | 5310            | 14.16  | 15.50         | 12.50                |               | 9.50                   |               |              |       |       |
| 802.11ax-HE20 MCS0 |                   | 52      | 5260            | 17.23  | 18.50         | Not Required         |               | 12.50                  |               | Not Required | 9.50  | 48.80 |
|                    |                   | 56      | 5280            | 17.19  | 18.50         |                      |               | 12.50                  |               |              | 9.50  |       |
|                    |                   | 60      | 5300            | 17.12  | 18.50         |                      |               | 12.50                  |               |              | 9.50  |       |
|                    |                   | 64      | 5320            | 17.16  | 18.50         |                      |               | 12.50                  |               |              | 9.50  |       |
| 802.11ax-HE40 MCS0 |                   | 54      | 5270            | 18.85  | 20.50         |                      | 12.50         | 9.50                   | 35.90         |              |       |       |
|                    |                   | 62      | 5310            | 14.36  | 15.50         |                      | 12.50         | 9.50                   |               |              |       |       |
| 802.11ax-HE80 MCS0 |                   | 58      | 5290            | 13.40  | 15.00         |                      | 11.92         | 12.50                  | 7.91          |              | 9.50  | 20.70 |



| 5.5GHz WLAN Ant 6  |                    |                 |                     |               |                     | Full Power Sensor off Standalone | Sensor on Standalone | Sensor on Simultaneous | Sensor off Simultaneous | Duty Cycle %  |              |       |
|--------------------|--------------------|-----------------|---------------------|---------------|---------------------|----------------------------------|----------------------|------------------------|-------------------------|---------------|--------------|-------|
| Mode               | Channel            | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit                    | Average power (dBm)  | Tune-Up Limit          | Average power (dBm)     | Tune-Up Limit | Duty Cycle % |       |
| 5.5GHz WLAN        | 802.11n-HT20 MCS0  | 100             | 5500                | 17.25         | 18.50               | Not Required                     | 13.50                | Not Required           | 10.50                   | Not Required  | 18.00        | 48.80 |
|                    |                    | 116             | 5580                | 17.32         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 124             | 5620                | 17.35         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 132             | 5660                | 17.33         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 140             | 5700                | 15.28         | 17.00               |                                  | 13.50                |                        | 17.00                   |               |              |       |
|                    |                    | 144             | 5720                | 17.19         | 18.50               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    | 802.11n-HT40 MCS0  | 102             | 5510                | 14.10         | 15.50               |                                  | 13.50                |                        | 15.50                   |               | 35.20        |       |
|                    |                    | 110             | 5550                | 15.94         | 17.50               |                                  | 13.50                |                        | 17.50                   |               |              |       |
|                    |                    | 126             | 5630                | 18.98         | 20.50               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 134             | 5670                | 15.47         | 17.00               |                                  | 13.50                |                        | 17.00                   |               |              |       |
|                    | 802.11ax-HE20 MCS0 | 100             | 5500                | 17.57         | 19.00               |                                  | 13.50                |                        | 18.00                   |               | 48.80        |       |
|                    |                    | 116             | 5580                | 17.42         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 124             | 5620                | 17.53         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 132             | 5660                | 17.55         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 140             | 5700                | 15.47         | 17.00               |                                  | 13.50                |                        | 17.00                   |               |              |       |
|                    |                    | 144             | 5720                | 17.47         | 19.00               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    | 802.11ax-HE40 MCS0 | 102             | 5510                | 14.28         | 16.00               |                                  | 13.50                |                        | 16.00                   |               | 35.90        |       |
|                    |                    | 110             | 5550                | 19.08         | 20.50               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 126             | 5630                | 19.13         | 20.50               |                                  | 13.50                |                        | 18.00                   |               |              |       |
|                    |                    | 134             | 5670                | 15.67         | 17.00               |                                  | 13.50                |                        | 17.00                   |               |              |       |
| 142                |                    | 5710            | 19.08               | 20.50         | 13.50               | 18.00                            |                      |                        |                         |               |              |       |
| 802.11ax-HE80 MCS0 | 106                | 5530            | 13.62               | 15.00         | 11.58               | 13.50                            | 8.52                 | 10.50                  | 13.62                   | 15.00         | 20.70        |       |
|                    | 122                | 5610            | 16.68               | 18.00         | 11.69               | 13.50                            | 8.55                 | 10.50                  | 16.68                   | 18.00         |              |       |
|                    | 138                | 5690            | 18.67               | 20.00         | 11.65               | 13.50                            | 8.53                 | 10.50                  | 16.62                   | 18.00         |              |       |

| 5.8GHz WLAN Ant 6 |                    |                 |                     |               |                     | Full Power Sensor off Standalone | Sensor on Standalone | Sensor on Simultaneous | Sensor off Simultaneous | Duty Cycle %  |              |       |       |       |       |
|-------------------|--------------------|-----------------|---------------------|---------------|---------------------|----------------------------------|----------------------|------------------------|-------------------------|---------------|--------------|-------|-------|-------|-------|
| Mode              | Channel            | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit                    | Average power (dBm)  | Tune-Up Limit          | Average power (dBm)     | Tune-Up Limit | Duty Cycle % |       |       |       |       |
| 5.8GHz WLAN       | 802.11n-HT20 MCS0  | 149             | 5745                | 18.87         | 20.50               | Not Required                     | 14.00                | Not Required           | 11.00                   | Not Required  | 20.00        | 48.80 |       |       |       |
|                   |                    | 157             | 5785                | 18.92         | 20.50               |                                  | 14.00                |                        | 20.00                   |               |              |       |       |       |       |
|                   |                    | 165             | 5825                | 18.99         | 20.50               |                                  | 14.00                |                        | 20.00                   |               |              |       |       |       |       |
|                   | 802.11n-HT40 MCS0  | 151             | 5755                | 18.08         | 19.50               |                                  | 14.00                |                        | 19.50                   |               | 35.20        |       |       |       |       |
|                   |                    | 159             | 5795                | 17.99         | 19.50               |                                  | 14.00                |                        | 19.50                   |               |              |       |       |       |       |
|                   | 802.11ax-HE20 MCS0 | 149             | 5745                | 19.13         | 20.50               |                                  | 14.00                |                        | 20.00                   |               | 48.80        |       |       |       |       |
|                   |                    | 157             | 5785                | 19.16         | 20.50               |                                  | 14.00                |                        | 20.00                   |               |              |       |       |       |       |
|                   |                    | 165             | 5825                | 19.22         | 20.50               |                                  | 14.00                |                        | 20.00                   |               |              |       |       |       |       |
|                   | 802.11ax-HE40 MCS0 | 151             | 5755                | 18.43         | 20.00               |                                  | 14.00                |                        | 20.00                   |               | 35.90        |       |       |       |       |
|                   |                    | 159             | 5795                | 18.40         | 20.00               |                                  | 14.00                |                        | 20.00                   |               |              |       |       |       |       |
|                   | 802.11ax-HE80 MCS0 | 155             | 5775                | 18.87         | 20.50               |                                  | 11.72                |                        | 14.00                   |               | 8.66         | 11.00 | 18.87 | 20.00 | 20.70 |

<5GHz WLAN Ant7>

| Ant 7              |                    |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |
|--------------------|--------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|
| 5.2GHz WLAN        | Mode               | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |
|                    | 802.11n-HT20 MCS0  | 36      | 5180            | 17.14  | 18.50         | Not Required         | 15.00         | Not Required           | 13.00         | 48.90        |
|                    |                    | 40      | 5200            | 17.87  | 19.50         |                      | 13.00         |                        |               |              |
|                    |                    | 44      | 5220            | 17.22  | 18.50         |                      | 13.00         |                        |               |              |
|                    |                    | 48      | 5240            | 17.60  | 19.00         |                      | 13.00         |                        |               |              |
|                    | 802.11n-HT40 MCS0  | 38      | 5190            | 15.40  | 17.00         |                      | 15.00         |                        | 13.00         | 36.00        |
|                    |                    | 46      | 5230            | 18.98  | 20.50         |                      | 15.00         |                        | 13.00         |              |
|                    | 802.11ax-HE20 MCS0 | 36      | 5180            | 17.26  | 18.50         |                      | 15.00         |                        | 13.00         | 48.90        |
|                    |                    | 40      | 5200            | 18.06  | 20.00         |                      | 15.00         |                        | 13.00         |              |
|                    |                    | 44      | 5220            | 17.90  | 19.50         |                      | 15.00         |                        | 13.00         |              |
| 48                 |                    | 5240    | 17.88           | 19.50  | 15.00         |                      | 13.00         |                        |               |              |
| 802.11ax-HE40 MCS0 | 38                 | 5190    | 15.57           | 17.00  | 15.00         | 13.00                | 36.00         |                        |               |              |
|                    | 46                 | 5230    | 19.26           | 20.50  | 15.00         | 13.00                |               |                        |               |              |
| 802.11ax-HE80 MCS0 | 42                 | 5210    | 15.31           | 17.00  | 13.29         | 15.00                | 11.21         | 13.00                  | 20.00         |              |

| Ant 7              |                    |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |       |       |
|--------------------|--------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|-------|-------|
| 5.3GHz WLAN        | Mode               | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |       |       |
|                    | 802.11n-HT20 MCS0  | 52      | 5260            | 17.58  | 19.00         | Not Required         | 15.00         | Not Required           | 13.00         | 48.90        |       |       |
|                    |                    | 56      | 5280            | 17.51  | 19.00         |                      | 13.00         |                        |               |              |       |       |
|                    |                    | 60      | 5300            | 17.74  | 19.00         |                      | 13.00         |                        |               |              |       |       |
|                    |                    | 64      | 5320            | 17.53  | 19.00         |                      | 13.00         |                        |               |              |       |       |
|                    | 802.11n-HT40 MCS0  | 54      | 5270            | 19.11  | 20.50         |                      | 13.08         |                        | 15.00         | 13.00        | 36.00 |       |
|                    |                    | 62      | 5310            | 14.52  | 16.00         |                      | 12.52         |                        | 15.00         | 13.00        |       |       |
|                    | 802.11ax-HE20 MCS0 | 52      | 5260            | 17.94  | 19.50         |                      | Not Required  |                        | 15.00         | Not Required | 13.00 | 48.90 |
|                    |                    | 56      | 5280            | 17.88  | 19.50         |                      |               |                        | 15.00         |              | 13.00 |       |
|                    |                    | 60      | 5300            | 17.86  | 19.50         |                      |               |                        | 15.00         |              | 13.00 |       |
| 64                 |                    | 5320    | 17.78           | 19.50  | 15.00         |                      |               |                        | 13.00         |              |       |       |
| 802.11ax-HE40 MCS0 | 54                 | 5270    | 19.35           | 20.50  | 15.00         | 13.00                |               | 36.00                  |               |              |       |       |
|                    | 62                 | 5310    | 14.64           | 16.00  | 15.00         | 13.00                |               |                        |               |              |       |       |
| 802.11ax-HE80 MCS0 | 58                 | 5290    | 14.33           | 16.00  | 15.00         | 15.00                |               | 11.63                  | 13.00         |              | 20.00 |       |



| Ant 7              |                   |         |                 | Full Power Sensor off Standalone Sensor off Simultaneous |               | Sensor on Standalone |               | Sensor on Simultaneous |               |              |
|--------------------|-------------------|---------|-----------------|--|---------------|----------------------|---------------|------------------------|---------------|--------------|
| 5.5GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm)                                      | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Duty Cycle % |
|                    | 802.11n-HT20 MCS0 |         | 100             | 5500   | 17.47         | 19.00                | Not Required  | 13.50                  | Not Required  | 10.50        |
| 116                |                   |         | 5580            | 17.61  | 19.00         |                      |               |                        |               |              |
| 124                |                   |         | 5620            | 17.64  | 19.00         |                      |               |                        |               |              |
| 132                |                   |         | 5660            | 17.72  | 19.00         |                      |               |                        |               |              |
| 140                |                   |         | 5700            | 15.88  | 17.50         |                      |               |                        |               |              |
| 144                |                   |         | 5720            | 17.81  | 19.50         |                      |               |                        |               |              |
| 802.11n-HT40 MCS0  |                   | 102     | 5510            | 14.94  | 16.50         | Not Required         | 13.50         | Not Required           | 10.50         | 36.00        |
|                    |                   | 110     | 5550            | 16.32  | 18.00         |                      |               |                        |               |              |
|                    |                   | 126     | 5630            | 19.24  | 20.50         |                      |               |                        |               |              |
|                    |                   | 134     | 5670            | 16.19  | 17.50         |                      |               |                        |               |              |
| 802.11ax-HE20 MCS0 |                   | 142     | 5710            | 19.02  | 20.50         | Not Required         | 13.50         | Not Required           | 10.50         | 48.90        |
|                    |                   | 100     | 5500            | 17.76  | 19.50         |                      |               |                        |               |              |
|                    |                   | 116     | 5580            | 17.89  | 19.50         |                      |               |                        |               |              |
|                    |                   | 124     | 5620            | 17.95  | 19.50         |                      |               |                        |               |              |
|                    |                   | 132     | 5660            | 18.01  | 19.50         |                      |               |                        |               |              |
|                    |                   | 140     | 5700            | 16.04  | 17.50         |                      |               |                        |               |              |
| 802.11ax-HE40 MCS0 |                   | 144     | 5720            | 18.23  | 19.50         | Not Required         | 13.50         | Not Required           | 10.50         | 36.00        |
|                    |                   | 102     | 5510            | 15.02  | 16.50         |                      |               |                        |               |              |
|                    |                   | 110     | 5550            | 19.30  | 21.00         |                      |               |                        |               |              |
|                    |                   | 126     | 5630            | 19.31  | 21.00         |                      |               |                        |               |              |
| 802.11ax-HE80 MCS0 |                   | 134     | 5670            | 16.25  | 17.50         | Not Required         | 13.50         | Not Required           | 10.50         | 20.00        |
|                    |                   | 142     | 5710            | 19.37  | 21.00         |                      |               |                        |               |              |
|                    |                   | 106     | 5530            | 14.29  | 16.00         |                      |               |                        |               |              |
|                    |                   | 122     | 5610            | 17.30  | 19.00         |                      |               |                        |               |              |
|                    |                   | 138     | 5690            | 20.05  | 22.00         | 12.49                | 13.50         | 9.55                   | 10.50         |              |

| 5.8GHz WLAN Ant 7  |                   |         |                 | Full Power Sensor off Standalone |               | Sensor on Standalone |               | Sensor on Simultaneous |               | Sensor off Simultaneous |               |              |       |       |              |       |              |       |              |       |       |
|--------------------|-------------------|---------|-----------------|----------------------------------|---------------|----------------------|---------------|------------------------|---------------|-------------------------|---------------|--------------|-------|-------|--------------|-------|--------------|-------|--------------|-------|-------|
| 5.8GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm)              | Tune-Up Limit | Average power (dBm)  | Tune-Up Limit | Average power (dBm)    | Tune-Up Limit | Average power (dBm)     | Tune-Up Limit | Duty Cycle % |       |       |              |       |              |       |              |       |       |
|                    | 802.11n-HT20 MCS0 |         | 149             | 5745                             | 19.83         | 21.50                | Not Required  | 13.00                  | Not Required  | 10.00                   | Not Required  | 20.00        | 48.90 |       |              |       |              |       |              |       |       |
| 157                |                   |         | 5785            | 19.87                            | 21.50         |                      |               |                        |               |                         |               |              |       |       |              |       |              |       |              |       |       |
| 165                |                   |         | 5825            | 19.86                            | 21.50         |                      |               |                        |               |                         |               |              |       |       |              |       |              |       |              |       |       |
| 802.11n-HT40 MCS0  |                   |         |                 | 151                              | 5755          | 18.74                |               |                        |               |                         |               |              |       | 20.00 | Not Required | 13.00 | Not Required | 10.00 | Not Required | 20.00 | 36.00 |
|                    |                   |         |                 | 159                              | 5795          | 18.70                |               |                        |               |                         |               |              |       | 20.00 |              |       |              |       |              |       |       |
| 802.11ax-HE20 MCS0 |                   |         |                 | 149                              | 5745          | 20.06                |               |                        |               |                         |               |              |       | 21.50 | Not Required | 13.00 | Not Required | 10.00 | Not Required | 20.00 | 48.90 |
|                    | 157               | 5785    |                 | 19.97                            | 21.50         |                      |               |                        |               |                         |               |              |       |       |              |       |              |       |              |       |       |
|                    | 165               | 5825    |                 | 20.02                            | 21.50         |                      |               |                        |               |                         |               |              |       |       |              |       |              |       |              |       |       |
| 802.11ax-HE40 MCS0 |                   | 151     | 5755            | 19.27                            | 21.00         | Not Required         | 13.00         | Not Required           | 10.00         | Not Required            | 20.00         | 36.00        |       |       |              |       |              |       |              |       |       |
|                    |                   | 159     | 5795            | 19.19                            | 20.50         |                      |               |                        |               |                         |               |              |       |       |              |       |              |       |              |       |       |
| 802.11ax-HE80 MCS0 |                   | 155     | 5775            | 19.64                            | 21.00         | 11.36                | 13.00         | 9.01                   | 10.00         | 19.11                   | 20.00         | 20.00        |       |       |              |       |              |       |              |       |       |



<5GHz WLAN Ant6+7>

| Ant 6+7               |                       |         |                    | Full Power<br>Sensor off<br>Standalone<br>Sensor off<br>Simultaneous |                  | Sensor on Standalone   |                  | Sensor on Simultaneous |                  |                 |       |       |
|-----------------------|-----------------------|---------|--------------------|--|------------------|------------------------|------------------|------------------------|------------------|-----------------|-------|-------|
| 5.2GHz<br>WLAN        | Mode                  | Channel | Frequency<br>(MHz) | Average<br>power<br>(dBm)  | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Average<br>power (dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |       |       |
|                       | 802.11n-HT20<br>MCS0  | 36      | 5180               | 19.95  | 21.50            | Not Required           | 17.00            | Not Required           | 14.50            | 48.90           |       |       |
|                       |                       | 40      | 5200               | 20.65  | 22.00            |                        |                  |                        |                  |                 |       |       |
|                       |                       | 44      | 5220               | 20.15  | 21.50            |                        |                  |                        |                  |                 |       |       |
|                       |                       | 48      | 5240               | 20.41  | 22.00            |                        |                  |                        |                  |                 |       |       |
|                       | 802.11n-HT40<br>MCS0  | 38      | 5190               | 18.24  | 19.50            |                        |                  |                        |                  | 17.00           | 14.50 | 36.00 |
|                       |                       | 46      | 5230               | 21.66  | 23.00            |                        |                  |                        |                  |                 |       |       |
|                       | 802.11ax-HE20<br>MCS0 | 36      | 5180               | 20.08  | 21.50            |                        |                  |                        |                  | 17.00           | 14.50 | 48.90 |
|                       |                       | 40      | 5200               | 20.88  | 22.50            |                        |                  |                        |                  |                 |       |       |
|                       |                       | 44      | 5220               | 20.67  | 22.00            |                        |                  |                        |                  |                 |       |       |
| 48                    |                       | 5240    | 20.63              | 22.00  |                  |                        |                  |                        |                  |                 |       |       |
| 802.11ax-HE40<br>MCS0 | 38                    | 5190    | 18.36              | 20.00  | 17.00            | 14.50                  | 36.00            |                        |                  |                 |       |       |
|                       | 46                    | 5230    | 21.95              | 23.50  |                  |                        |                  |                        |                  |                 |       |       |
| 802.11ax-HE80<br>MCS0 | 42                    | 5210    | 18.20              | 20.00  | 15.17            | 17.00                  | 12.65            | 14.50                  | 20.00            |                 |       |       |

| Ant 6+7               |                       |         |                    | Full Power             |                  | Sensor on Simultaneous |                  |              |       |
|-----------------------|-----------------------|---------|--------------------|------------------------|------------------|------------------------|------------------|--------------|-------|
| 5.3GHz WLAN           | Mode                  | Channel | Frequency<br>(MHz) | Average<br>power (dBm) | Tune-Up<br>Limit | Average power<br>(dBm) | Tune-Up<br>Limit | Duty Cycle % |       |
|                       | 802.11n-HT20<br>MCS0  | 52      | 5260               | 20.38                  | 22.00            | Not Required           | 9.50             | 48.90        |       |
|                       |                       | 56      | 5280               | 20.33                  | 22.00            |                        |                  |              |       |
|                       |                       | 60      | 5300               | 20.44                  | 22.00            |                        |                  |              |       |
|                       |                       | 64      | 5320               | 20.36                  | 22.00            |                        |                  |              |       |
|                       | 802.11n-HT40<br>MCS0  | 54      | 5270               | 21.89                  | 23.50            |                        |                  | 9.50         | 36.00 |
|                       |                       | 62      | 5310               | 17.35                  | 19.00            |                        |                  |              |       |
|                       | 802.11ax-HE20<br>MCS0 | 52      | 5260               | 20.61                  | 22.00            |                        |                  | 9.50         | 48.90 |
|                       |                       | 56      | 5280               | 20.56                  | 22.00            |                        |                  |              |       |
|                       |                       | 60      | 5300               | 20.52                  | 22.00            |                        |                  |              |       |
| 64                    |                       | 5320    | 20.49              | 22.00                  |                  |                        |                  |              |       |
| 802.11ax-HE40<br>MCS0 | 54                    | 5270    | 22.12              | 23.50                  | 9.50             | 36.00                  |                  |              |       |
|                       | 62                    | 5310    | 17.51              | 19.00                  |                  |                        |                  |              |       |
| 802.11ax-HE80<br>MCS0 | 58                    | 5290    | 16.90              | 18.50                  | 8.56             | 9.50                   | 20.00            |              |       |



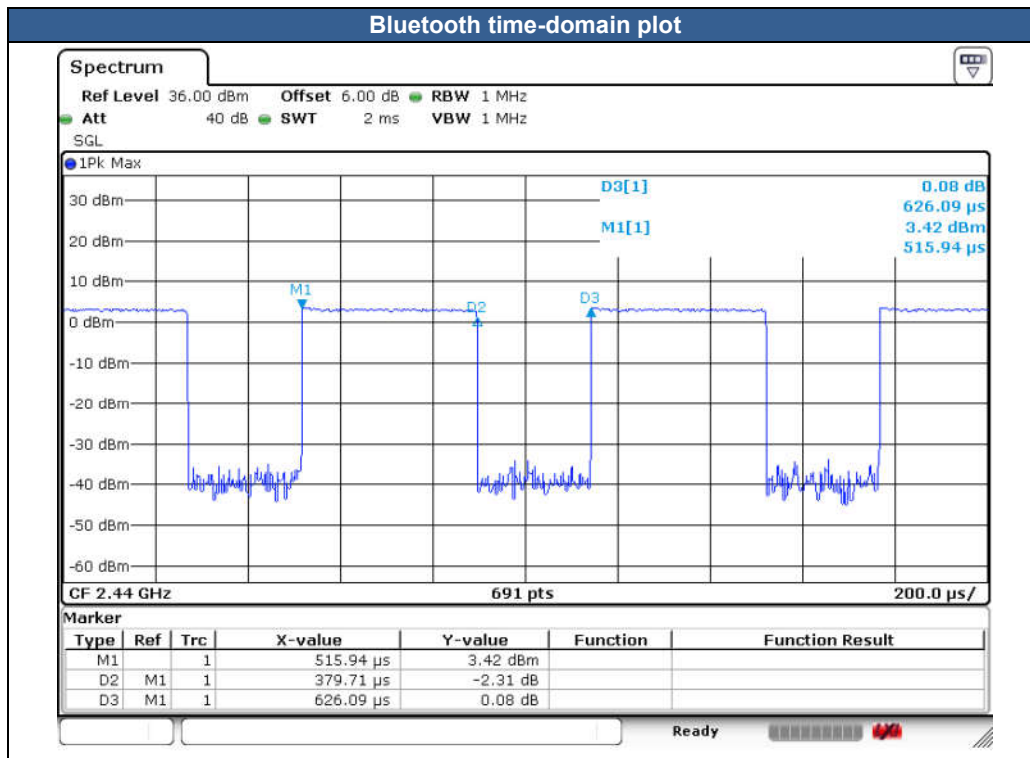
| Ant 6+7            |                   |         |                 |                     |               | Full Power Sensor off Standalone | Sensor on Standalone | Sensor on Simultaneous | Sensor off Simultaneous |                     |               |              |
|--------------------|-------------------|---------|-----------------|---------------------|---------------|----------------------------------|----------------------|------------------------|-------------------------|---------------------|---------------|--------------|
| 5.5GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm)              | Tune-Up Limit        | Average power (dBm)    | Tune-Up Limit           | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                    | 802.11n-HT20 MCS0 | 100     | 5500            | 20.37               | 22.00         | Not Required                     | 16.50                | Not Required           | 13.50                   | Not Required        | 21.50         | 48.90        |
| 116                |                   | 5580    | 20.48           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
| 124                |                   | 5620    | 20.51           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
| 132                |                   | 5660    | 20.54           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
| 140                |                   | 5700    | 18.60           | 20.00               |               |                                  |                      |                        |                         |                     |               |              |
| 144                |                   | 5720    | 20.52           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
| 802.11n-HT40 MCS0  | 102               | 5510    | 17.55           | 19.00               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required            | 19.00               | 36.00         |              |
|                    | 110               | 5550    | 19.14           | 20.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 126               | 5630    | 22.12           | 23.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 134               | 5670    | 18.86           | 20.50               |               |                                  |                      |                        |                         |                     |               |              |
| 802.11ax-HE20 MCS0 | 100               | 5500    | 20.68           | 22.00               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required            | 21.50               | 48.90         |              |
|                    | 116               | 5580    | 20.67           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 124               | 5620    | 20.76           | 22.00               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 132               | 5660    | 20.80           | 22.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 140               | 5700    | 18.77           | 20.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 144               | 5720    | 20.88           | 22.50               |               |                                  |                      |                        |                         |                     |               |              |
| 802.11ax-HE40 MCS0 | 102               | 5510    | 17.68           | 19.00               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required            | 19.00               | 36.00         |              |
|                    | 110               | 5550    | 22.20           | 23.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 126               | 5630    | 22.23           | 23.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 134               | 5670    | 18.98           | 20.50               |               |                                  |                      |                        |                         |                     |               |              |
|                    | 142               | 5710    | 22.24           | 23.50               |               |                                  |                      |                        |                         |                     |               |              |
| 802.11ax-HE80 MCS0 | 106               | 5530    | 16.98           | 18.50               | 14.93         | 16.00                            | 11.89                | 13.00                  | 16.98                   | 18.50               | 20.00         |              |
|                    | 122               | 5610    | 20.01           | 21.50               | 15.00         | 16.50                            | 11.92                | 13.50                  | 20.01                   | 21.50               |               |              |
|                    | 138               | 5690    | 22.42           | 24.00               | 15.16         | 16.50                            | 12.08                | 13.50                  | 21.68                   | 23.00               |               |              |

| Ant 6+7            |                   |         |                 |                     |               | Full Power Sensor off Standalone | Sensor on Standalone | Sensor on Simultaneous | Sensor on Simultaneous |                     |               |              |
|--------------------|-------------------|---------|-----------------|---------------------|---------------|----------------------------------|----------------------|------------------------|------------------------|---------------------|---------------|--------------|
| 5.8GHz WLAN        | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm)              | Tune-Up Limit        | Average power (dBm)    | Tune-Up Limit          | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                    | 802.11n-HT20 MCS0 | 149     | 5745            | 22.39               | 24.00         | Not Required                     | 16.50                | Not Required           | 13.50                  | Not Required        | 23.00         | 48.90        |
| 157                |                   | 5785    | 22.43           | 24.00               |               |                                  |                      |                        |                        |                     |               |              |
| 165                |                   | 5825    | 22.46           | 24.00               |               |                                  |                      |                        |                        |                     |               |              |
| 802.11n-HT40 MCS0  | 151               | 5755    | 21.43           | 23.00               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required           | 23.00               | 36.00         |              |
|                    | 159               | 5795    | 21.37           | 23.00               |               |                                  |                      |                        |                        |                     |               |              |
| 802.11ax-HE20 MCS0 | 149               | 5745    | 22.63           | 24.00               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required           | 23.00               | 48.90         |              |
|                    | 157               | 5785    | 22.59           | 24.00               |               |                                  |                      |                        |                        |                     |               |              |
|                    | 165               | 5825    | 22.65           | 24.00               |               |                                  |                      |                        |                        |                     |               |              |
| 802.11ax-HE40 MCS0 | 151               | 5755    | 21.88           | 23.50               | Not Required  | 16.50                            | Not Required         | 13.50                  | Not Required           | 23.00               | 36.00         |              |
|                    | 159               | 5795    | 21.82           | 23.50               |               |                                  |                      |                        |                        |                     |               |              |
| 802.11ax-HE80 MCS0 | 155               | 5775    | 22.28           | 24.00               | 15.06         | 16.50                            | 12.01                | 13.50                  | 22.00                  | 23.00               | 20.00         |              |

**<2.4GHz Bluetooth>**

**General Note:**

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 60.65 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation



| Mode     | Channel | Frequency (MHz) | Average power (dBm) |       |       | Tune-up Limit |
|----------|---------|-----------------|---------------------|-------|-------|---------------|
|          |         |                 | 1Mbps               | 2Mbps | 3Mbps |               |
| BR / EDR | CH 00   | 2402            | 2.35                | 2.43  | 2.54  | 4.00          |
|          | CH 39   | 2441            | 2.46                | 2.66  | 2.65  | 4.00          |
|          | CH 78   | 2480            | 3.36                | 2.70  | 2.69  | 4.00          |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE_1M         | CH 00   | 2402            | 5.23                |
|               | CH 19   | 2440            | 5.84                |
|               | CH 39   | 2480            | 5.54                |
| Tune-up Limit |         |                 | 7.00                |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE_2M         | CH 00   | 2402            | 5.05                |
|               | CH 19   | 2440            | 5.77                |
|               | CH 39   | 2480            | 5.73                |
| Tune-up Limit |         |                 | 7.00                |



### 15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

**<SAR test exclusion table>**

**General Note:**

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
  - $[(max. \text{ power of channel, including tune-up tolerance, mW}) / (min. \text{ test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
  - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ( f(MHz)/150)] mW, at 100 MHz to 1500 MHz
  - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

**<For Ant.0&6&7>**

| Exposure Position       | Wireless Interface         | LTE Band 12 Ant 0 | LTE Band 13 Ant 0 | LTE Band 14 Ant 0 | LTE Band 17 Ant 0 | LTE Band 26 Ant 0 | LTE Band 66 Ant 0 | LTE Band 25 Ant 0 | LTE Band 7 Ant 0 | LTE Band 38 Ant 0 | FR1 n12 Ant 0 | FR1 n13 Ant 0 | FR1 n14 Ant 0 | FR1 n71 Ant 0 | FR1 n5 Ant 0 | FR1 n66 Ant 0 | FR1 n25 Ant 0 | FR1 n7 Ant 0 | Bluetooth Ant 6 | 2.4GHz WLAN Ant 6 | 2.4GHz WLAN Ant 7 | 5GHz WLAN Ant 6 | 5GHz WLAN Ant 7 |
|-------------------------|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|-----------------|-------------------|-------------------|-----------------|-----------------|
|                         | Calculated Frequency (MHz) | 711               | 782               | 793               | 688               | 841.5             | 1770              | 1905              | 2560             | 2610              | 708.5         | 782           | 793           | 688           | 839          | 1765          | 1905          | 2545         | 2480            | 2462              | 2462              | 5825            | 5825            |
| Maximum power (dBm)     | 25.0                       | 24.0              | 25.0              | 25.0              | 24.0              | 25.0              | 25.0              | 24.0              | 24.0             | 24.0              | 24.0          | 24.0          | 24.0          | 25.0          | 25.0         | 25.0          | 24.0          | 7.0          | 22.0            | 22.5              | 21.0              | 21.0            |                 |
| Maximum rated power(mW) | 316.23                     | 251.19            | 316.23            | 316.23            | 251.19            | 316.23            | 316.23            | 251.19            | 251.19           | 251.19            | 251.19        | 251.19        | 251.19        | 316.23        | 316.23       | 316.23        | 251.19        | 5.01         | 158.49          | 177.83            | 125.89            | 125.89          |                 |
| Bottom Face             | Separation distance(mm)    | 5.0               |                   |                   |                   |                   |                   |                   |                  |                   |               |               |               |               |              |               |               |              | 5.0             | 5.0               | 5.0               | 5.0             | 5.0             |
| exclusion threshold     | 53.3                       | 44.4              | 56.3              | 52.5              | 58.0              | 84.1              | 87.3              | 80.4              | 81.2             | 42.3              | 44.4          | 44.7          | 41.7          | 57.9          | 84.0         | 87.3          | 80.1          | 1.6          | 49.7            | 55.8              | 60.8              | 60.8            |                 |
| Testing required?       | Yes                        | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes              | Yes               | Yes           | Yes           | Yes           | Yes           | Yes          | Yes           | Yes           | Yes          | No              | Yes               | Yes               | Yes             | Yes             |
| Edge 1                  | Separation distance(mm)    | 7.81              |                   |                   |                   |                   |                   |                   |                  |                   |               |               |               |               |              |               |               |              | 177.65          | 177.65            | 5.0               | 177.65          | 5.0             |
| exclusion threshold     | 34.1                       | 28.4              | 36.1              | 33.6              | 37.1              | 53.9              | 55.9              | 51.5              | 52.0             | 27.1              | 28.4          | 28.6          | 26.7          | 37.1          | 53.8         | 55.9          | 51.3          | 1372.0       | 1372.0          | 55.8              | 1339.0            | 60.8            |                 |
| Testing required?       | Yes                        | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes              | Yes               | Yes           | Yes           | Yes           | Yes           | Yes          | Yes           | Yes           | Yes          | No              | No                | Yes               | No              | Yes             |
| Edge 2                  | Separation distance(mm)    | 123.15            |                   |                   |                   |                   |                   |                   |                  |                   |               |               |               |               |              |               |               |              | 126.15          | 126.15            | 86.89             | 126.15          | 86.89           |
| exclusion threshold     | 525.0                      | 551.0             | 555.0             | 516.0             | 574.0             | 976.0             | 1038.0            | 825.0             | 824.0            | 910.0             | 901.0         | 900.0         | 912.0         | 895.0         | 844.0        | 840.0         | 826.0         | 857.0        | 857.0           | 464.0             | 824.0             | 431.0           |                 |
| Testing required?       | No                         | No                | No                | No                | No                | No                | No                | No                | No               | No                | No            | No            | No            | No            | No           | No            | No            | No           | No              | No                | No                | No              | No              |
| Edge 3                  | Separation distance(mm)    | 142.75            |                   |                   |                   |                   |                   |                   |                  |                   |               |               |               |               |              |               |               |              | 9.61            | 9.61              | 199.40            | 9.61            | 199.40          |
| exclusion threshold     | 618.0                      | 653.0             | 659.0             | 606.0             | 684.0             | 1207.0            | 1287.0            | 1021.0            | 1020.0           | 1106.0            | 1097.0        | 1096.0        | 1108.0        | 1091.0        | 1040.0       | 1036.0        | 1022.0        | 0.8          | 25.9            | 1590.0            | 31.6              | 1556.0          |                 |
| Testing required?       | No                         | No                | No                | No                | No                | No                | No                | No                | No               | No                | No            | No            | No            | No            | No           | No            | No            | No           | No              | Yes               | No                | Yes             | No              |
| Edge 4                  | Separation distance(mm)    | 5.0               |                   |                   |                   |                   |                   |                   |                  |                   |               |               |               |               |              |               |               |              | 5.0             | 5.0               | 16.39             | 5.0             | 16.39           |
| exclusion threshold     | 53.3                       | 44.4              | 56.3              | 52.5              | 58.0              | 84.1              | 87.3              | 80.4              | 81.2             | 42.3              | 44.4          | 44.7          | 41.7          | 57.9          | 84.0         | 87.3          | 80.1          | 1.6          | 49.7            | 17.0              | 60.8              | 18.5            |                 |
| Testing required?       | Yes                        | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes               | Yes              | Yes               | Yes           | Yes           | Yes           | Yes           | Yes          | Yes           | Yes           | Yes          | No              | Yes               | Yes               | Yes             | Yes             |

**<For Ant.1>**

| Exposure Position | Wireless Interface         |  | FR1 n 41 Ant 1 | FR1 n77 Part270 Ant 1 | FR1 n77 Part27Q Ant 1 |
|-------------------|----------------------------|--|----------------|-----------------------|-----------------------|
|                   | Calculated Frequency (MHz) |  | 2640           | 3930                  | 3500.01               |
|                   | Maximum power (dBm)        |  | 21.0           | 21.0                  | 21.0                  |
|                   | Maximum rated power(mW)    |  | 125.89         | 125.89                | 125.89                |
| Bottom Face       | Separation distance(mm)    |  | 5.0            |                       |                       |
|                   | exclusion threshold        |  | 40.9           | 49.9                  | 47.1                  |
|                   | Testing required?          |  | Yes            | Yes                   | Yes                   |
| Edge 1            | Separation distance(mm)    |  | 106.4          |                       |                       |
|                   | exclusion threshold        |  | 1085.0         | 1553.0                | 1396.0                |
|                   | Testing required?          |  | No             | No                    | No                    |
| Edge 2            | Separation distance(mm)    |  | 5.0            |                       |                       |
|                   | exclusion threshold        |  | 40.9           | 49.9                  | 47.1                  |
|                   | Testing required?          |  | Yes            | Yes                   | Yes                   |
| Edge 3            | Separation distance(mm)    |  | 55.4           |                       |                       |
|                   | exclusion threshold        |  | 187.0          | 217.0                 | 206.0                 |
|                   | Testing required?          |  | No             | No                    | No                    |
| Edge 4            | Separation distance(mm)    |  | 121.4          |                       |                       |
|                   | exclusion threshold        |  | 1349.0         | 1946.0                | 1746.0                |
|                   | Testing required?          |  | No             | No                    | No                    |

**<For Ant.2>**

| Exposure Position | Wireless Interface         |  | LTE Band 5 Ant 2 | LTE Band 66 Ant 2 | LTE Band 2 Ant 2 | LTE Band 7 Ant 2 | LTE Band 41 Ant 2 | FR1 n 5 Ant 2 | FR1 n 66 Ant 2 | FR1 n 25 Ant 2 | FR1 n 7 Ant 2 | FR1 n 41 HPUE Ant 2 |
|-------------------|----------------------------|--|------------------|-------------------|------------------|------------------|-------------------|---------------|----------------|----------------|---------------|---------------------|
|                   | Calculated Frequency (MHz) |  | 844              | 1770              | 1900             | 2560             | 2680              | 839           | 1765           | 1905           | 2545          | 2640                |
|                   | Maximum power (dBm)        |  | 25.0             | 25.0              | 24.5             | 24.0             | 25.0              | 25.0          | 25.0           | 25.0           | 24.0          | 27.0                |
|                   | Maximum rated power(mW)    |  | 316.23           | 316.23            | 281.84           | 251.19           | 316.23            | 316.23        | 316.23         | 316.23         | 251.19        | 501.19              |
| Bottom Face       | Separation distance(mm)    |  | 5.0              |                   |                  |                  |                   |               |                |                |               |                     |
|                   | exclusion threshold        |  | 58.1             | 84.1              | 77.7             | 80.4             | 92.3              | 57.9          | 84.0           | 87.3           | 80.1          | 162.9               |
|                   | Testing required?          |  | Yes              | Yes               | Yes              | Yes              | Yes               | Yes           | Yes            | Yes            | Yes           | Yes                 |
| Edge 1            | Separation distance(mm)    |  | 126.93           |                   |                  |                  |                   |               |                |                |               |                     |
|                   | exclusion threshold        |  | 596.0            | 1021.0            | 1083.0           | 1407.0           | 1466.0            | 594.0         | 1018.0         | 878.0          | 863.0         | 862.0               |
|                   | Testing required?          |  | No               | No                | No               | No               | No                | No            | No             | No             | No            | No                  |
| Edge 2            | Separation distance(mm)    |  | 126.15           |                   |                  |                  |                   |               |                |                |               |                     |
|                   | exclusion threshold        |  | 592.0            | 1011.0            | 1073.0           | 1393.0           | 1452.0            | 590.0         | 1009.0         | 870.0          | 856.0         | 854.0               |
|                   | Testing required?          |  | No               | No                | No               | No               | No                | No            | No             | No             | No            | No                  |
| Edge 3            | Separation distance(mm)    |  | 41.35            |                   |                  |                  |                   |               |                |                |               |                     |
|                   | exclusion threshold        |  | 7.0              | 10.2              | 9.4              | 9.7              | 11.2              | 7.0           | 10.2           | 10.6           | 9.7           | 19.7                |
|                   | Testing required?          |  | Yes              | Yes               | Yes              | Yes              | Yes               | Yes           | Yes            | Yes            | Yes           | Yes                 |
| Edge 4            | Separation distance(mm)    |  | 5.0              |                   |                  |                  |                   |               |                |                |               |                     |
|                   | exclusion threshold        |  | 58.1             | 84.1              | 77.7             | 80.4             | 92.3              | 57.9          | 84.0           | 87.3           | 80.1          | 162.9               |
|                   | Testing required?          |  | Yes              | Yes               | Yes              | Yes              | Yes               | Yes           | Yes            | Yes            | Yes           | Yes                 |



<For Ant.3>

| Exposure Position | Wireless Interface         | LTE Band 48 Ant 3 | FR1 n77 Part27O Ant 3 | FR1 n48 Ant 3 | FR1 n77 Part27Q Ant 3 |
|-------------------|----------------------------|-------------------|-----------------------|---------------|-----------------------|
| Exposure Position | Calculated Frequency (MHz) | 3690              | 3930                  | 3679.98       | 3500.01               |
|                   | Maximum power (dBm)        | 24.5              | 27.0                  | 23.0          | 27.0                  |
|                   | Maximum rated power(mW)    | 281.84            | 501.19                | 199.53        | 501.19                |
| Bottom Face       | Separation distance(mm)    | 5.0               |                       |               |                       |
|                   | exclusion threshold        | 108.3             | 198.7                 | 76.6          | 187.5                 |
|                   | Testing required?          | Yes               | Yes                   | Yes           | Yes                   |
| Edge 1            | Separation distance(mm)    | 79.42             |                       |               |                       |
|                   | exclusion threshold        | 802.0             | 846.0                 | 800.0         | 767.0                 |
|                   | Testing required?          | No                | No                    | No            | No                    |
| Edge 2            | Separation distance(mm)    | 125.35            |                       |               |                       |
|                   | exclusion threshold        | 1932.0            | 2050.0                | 1927.0        | 1838.0                |
|                   | Testing required?          | No                | No                    | No            | No                    |
| Edge 3            | Separation distance(mm)    | 115.45            |                       |               |                       |
|                   | exclusion threshold        | 1688.0            | 1790.0                | 1684.0        | 1607.0                |
|                   | Testing required?          | No                | No                    | No            | No                    |
| Edge 4            | Separation distance(mm)    | 5.0               |                       |               |                       |
|                   | exclusion threshold        | 108.3             | 198.7                 | 76.6          | 187.5                 |
|                   | Testing required?          | Yes               | Yes                   | Yes           | Yes                   |

<For Ant.4>

| Exposure Position | Wireless Interface         | FR1 n77 Part27O Ant 4 | FR1 n41 Ant 4 | FR1 n77 Part27Q Ant 4 |
|-------------------|----------------------------|-----------------------|---------------|-----------------------|
| Exposure Position | Calculated Frequency (MHz) | 3930                  | 2640          | 3500.01               |
|                   | Maximum power (dBm)        | 21.0                  | 21.0          | 21.0                  |
|                   | Maximum rated power(mW)    | 125.89                | 125.89        | 125.89                |
| Bottom Face       | Separation distance(mm)    | 5.0                   |               |                       |
|                   | exclusion threshold        | 49.9                  | 40.9          | 47.1                  |
|                   | Testing required?          | Yes                   | Yes           | Yes                   |
| Edge 1            | Separation distance(mm)    | 203.31                |               |                       |
|                   | exclusion threshold        | 4092.0                | 2791.0        | 3657.0                |
|                   | Testing required?          | No                    | No            | No                    |
| Edge 2            | Separation distance(mm)    | 34.44                 |               |                       |
|                   | exclusion threshold        | 7.3                   | 5.9           | 6.8                   |
|                   | Testing required?          | Yes                   | Yes           | Yes                   |
| Edge 3            | Separation distance(mm)    | 5.0                   |               |                       |
|                   | exclusion threshold        | 49.9                  | 40.9          | 47.1                  |
|                   | Testing required?          | Yes                   | Yes           | Yes                   |
| Edge 4            | Separation distance(mm)    | 77.74                 |               |                       |
|                   | exclusion threshold        | 802.0                 | 581.0         | 727.0                 |
|                   | Testing required?          | No                    | No            | No                    |

**<For Ant.5>**

| Exposure Position | Wireless Interface         | FR1 n77 Part27Q<br>Ant 5 | FR1 n41<br>Ant 5 | FR1 n77 Part27Q<br>Ant 5 |
|-------------------|----------------------------|--------------------------|------------------|--------------------------|
|                   | Calculated Frequency (MHz) | 3930                     | 2640             | 3500.01                  |
|                   | Maximum power (dBm)        | 21.0                     | 21.0             | 21.0                     |
|                   | Maximum rated power(mW)    | 125.89                   | 125.89           | 125.89                   |
| Bottom Face       | Separation distance(mm)    | 5.0                      |                  |                          |
|                   | exclusion threshold        | 49.9                     | 40.9             | 47.1                     |
|                   | Testing required?          | Yes                      | Yes              | Yes                      |
| Edge 1            | Separation distance(mm)    | 203.61                   |                  |                          |
|                   | exclusion threshold        | 4100.0                   | 2796.0           | 3664.0                   |
|                   | Testing required?          | No                       | No               | No                       |
| Edge 2            | Separation distance(mm)    | 59.84                    |                  |                          |
|                   | exclusion threshold        | 333.0                    | 266.0            | 310.0                    |
|                   | Testing required?          | No                       | No               | No                       |
| Edge 3            | Separation distance(mm)    | 5.0                      |                  |                          |
|                   | exclusion threshold        | 49.9                     | 40.9             | 47.1                     |
|                   | Testing required?          | Yes                      | Yes              | Yes                      |
| Edge 4            | Separation distance(mm)    | 44.23                    |                  |                          |
|                   | exclusion threshold        | 5.6                      | 4.6              | 5.3                      |
|                   | Testing required?          | Yes                      | Yes              | Yes                      |



## **16. SAR Test Results**

### **General Note:**

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.  
The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
4. For Ant0/3, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 and edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
5. For Ant2/6, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
6. For Ant7, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
7. For WWAN Ant 0 distance SAR test at Bottom Face 16mm/17mm, Edge 4 13mm, Edge 1 10mm is only for simultaneous transmission analysis with WLAN.
8. For WWAN Ant 2 distance SAR test at Bottom Face 16mm, Edge 4 13mm is only for simultaneous transmission analysis with WLAN.
9. For WWAN Ant 3 distance SAR test at Bottom Face 16mm/17mm, Edge 4 13mm, Edge 1 10mm is only for simultaneous transmission analysis with WLAN.
10. For WLAN 2.4GHz/5GHz Ant 6 distance SAR test at Bottom Face 16mm/18mm, Edge 4 17mm/20mm is only for simultaneous transmission analysis with WWAN.
11. For WLAN 2.4GHz/5GHz Ant 7 distance SAR test at Bottom Face 17mm/18mm, Edge 1 2mm, Edge 4 13mm/17mm/20mm is only for simultaneous transmission analysis with WWAN.
12. Standalone 1-g SAR testing for NFC will be performed with active mode and max power mode by test software with 100% duty cycle at 0mm separation distance.
13. SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
14. SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.
15. The following table "0.000" in the result means the SAR cube is too small to be found.



**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 4/17 SAR test was covered by Band 66/12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**5G NR Note:**

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
  - e. Smaller bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
  - f. For 5G FR1 n5/n7/n41/n66/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
8. When the single antenna RF power in MIMO mode is less than the single antenna RF power in SISO mode, SAR testing was performed on SISO mode, for MIMO SAR based on standalone SAR to be summed together as MIMO SAR.
9. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. TX Beamforming mode is only supported in 2.4GHz WLAN 802.11ax and 5GHz WLAN 802.11n/ax.
10. Due to the single antenna RF power in WLAN SISO & MIMO (CDD) mode is larger than or very close to the single antenna RF power in Beamforming mode, so WLAN SISO & MIMO (CDD) mode SAR can represent beamforming mode SAR.

**DSI status description:**

The device has the following DSI state which used at different exposure condition.

This WWAN bands enabled with Qualcomm Smart Transmit feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

| Exposure Condition | DSI     | Tx Antenna | Trigger conditions        |
|--------------------|---------|------------|---------------------------|
| Body Mode SAR      | DSI 1   | Ant 0/2/3  | Sensor On + Standalone    |
|                    | DSI 3   | Ant 0/2/3  | Sensor On + Simultaneous  |
|                    | DSI 0   | Ant 0/2/3  | Sensor Off + Standalone   |
|                    | DSI 2   | Ant 0/2/3  | Sensor Off + Simultaneous |
|                    | DSI 0/1 | Ant 1/4/5  | Standalone                |
|                    | DSI 2/3 | Ant 1/4/5  | Simultaneous              |



16.1 Body SAR

| Plot No.       | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode          | Test Position | Gap (mm) | Antenna | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |  |
|----------------|-------------|----------|------------|---------|-----------|---------------|---------------|----------|---------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|--|
| <b>750 MHZ</b> |             |          |            |         |           |               |               |          |         |             |        |             |                     |                     |                        |                  |                        |                        |  |
| 01             | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.09             | 1.050                  | <b>1.236</b>           |  |
|                | LTE Band 12 | 10M      | QPSK       | 25      | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.54               | 22.30               | 1.191                  | 0.04             | 0.959                  | 1.142                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.49               | 22.30               | 1.205                  | -0.02            | 0.948                  | 1.142                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.06             | 0.691                  | 0.814                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 25      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.54               | 22.30               | 1.191                  | 0.03             | 0.678                  | 0.808                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 50      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.49               | 22.30               | 1.205                  | 0.1              | 0.664                  | 0.800                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 3       | 23095  | 707.5       | 19.05               | 19.70               | 1.161                  | 0.09             | 0.513                  | 0.596                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.05             | 0.309                  | 0.364                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 25      | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 23095  | 707.5       | 21.54               | 22.30               | 1.191                  | 0.03             | 0.264                  | 0.314                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 18mm     | Ant 0   | DSI 0       | 23095  | 707.5       | 24.13               | 25.00               | 1.222                  | 0.01             | 0.376                  | 0.459                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 20mm     | Ant 0   | DSI 0       | 23095  | 707.5       | 24.13               | 25.00               | 1.222                  | 0.06             | 0.066                  | 0.081                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 23095  | 707.5       | 24.13               | 25.00               | 1.222                  | 0.06             | 0.464                  | 0.567                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 16mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.01             | 0.298                  | 0.351                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 17mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.01             | 0.276                  | 0.325                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 13mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 21.59               | 22.30               | 1.178                  | 0.06             | 0.067                  | 0.079                  |  |
|                | LTE Band 12 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 10mm     | Ant 0   | DSI 0       | 23095  | 707.5       | 24.13               | 25.00               | 1.222                  | 0.06             | 0.079                  | 0.097                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | 0.03             | 0.948                  | 1.221                  |  |
| 02             | FR1 n12     | 15M      | QPSK       | 36      | 22        | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.54               | 22.70               | 1.306                  | 0.01             | 0.954                  | <b>1.246</b>           |  |
|                | FR1 n12     | 15M      | QPSK       | 75      | 0         | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.46               | 22.70               | 1.330                  | 0.04             | 0.897                  | 1.193                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 4        | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | 0.01             | 0.822                  | 1.059                  |  |
|                | FR1 n12     | 15M      | QPSK       | 36      | 22        | DFT-SCS-15KHz | Edge 4        | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.54               | 22.70               | 1.306                  | 0.08             | 0.804                  | 1.050                  |  |
|                | FR1 n12     | 15M      | QPSK       | 75      | 0         | DFT-SCS-15KHz | Edge 4        | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.46               | 22.70               | 1.330                  | 0.03             | 0.790                  | 1.051                  |  |
|                | FR1 n12     | 15M      | QPSK       | 36      | 22        | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 3       | 141500 | 707.5       | 18.70               | 20.10               | 1.380                  | 0.02             | 0.470                  | 0.649                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 1        | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | -0.02            | 0.291                  | 0.375                  |  |
|                | FR1 n12     | 15M      | QPSK       | 36      | 22        | DFT-SCS-15KHz | Edge 1        | 0mm      | Ant 0   | DSI 1       | 141500 | 707.5       | 21.54               | 22.70               | 1.306                  | 0.06             | 0.278                  | 0.363                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 18mm     | Ant 0   | DSI 0       | 141500 | 707.5       | 23.24               | 24.00               | 1.191                  | 0.06             | 0.320                  | 0.381                  |  |
|                | FR1 n12     | 15M      | QPSK       | 36      | 22        | DFT-SCS-15KHz | Bottom Face   | 18mm     | Ant 0   | DSI 0       | 141500 | 707.5       | 23.21               | 24.00               | 1.199                  | 0.07             | 0.318                  | 0.381                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 4        | 20mm     | Ant 0   | DSI 0       | 141500 | 707.5       | 23.24               | 24.00               | 1.191                  | 0.05             | 0.051                  | 0.061                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 1        | 2mm      | Ant 0   | DSI 0       | 141500 | 707.5       | 23.24               | 24.00               | 1.191                  | 0.03             | 0.352                  | 0.419                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 16mm     | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | 0.06             | 0.312                  | 0.402                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 17mm     | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | 0.06             | 0.286                  | 0.368                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 4        | 13mm     | Ant 0   | DSI 1       | 141500 | 707.5       | 21.60               | 22.70               | 1.288                  | 0.05             | 0.084                  | 0.108                  |  |
|                | FR1 n12     | 15M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 1        | 10mm     | Ant 0   | DSI 0       | 141500 | 707.5       | 23.24               | 24.00               | 1.191                  | 0.03             | 0.121                  | 0.144                  |  |
| 03             | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.06             | 1.000                  | <b>1.259</b>           |  |
|                | LTE Band 13 | 10M      | QPSK       | 25      | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.58               | 22.60               | 1.265                  | 0.06             | 0.967                  | 1.223                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.59               | 22.60               | 1.262                  | 0.03             | 0.944                  | 1.191                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.1              | 0.420                  | 0.529                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 25      | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.58               | 22.60               | 1.265                  | 0.05             | 0.336                  | 0.425                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.03             | 0.529                  | 0.666                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 25      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 23230  | 782         | 21.58               | 22.60               | 1.265                  | 0.01             | 0.424                  | 0.536                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 3       | 23230  | 782         | 19.26               | 20.00               | 1.186                  | 0.06             | 0.501                  | 0.594                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 18mm     | Ant 0   | DSI 0       | 23230  | 782         | 22.99               | 24.00               | 1.262                  | 0.01             | 0.313                  | 0.395                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 20mm     | Ant 0   | DSI 0       | 23230  | 782         | 22.99               | 24.00               | 1.262                  | 0.06             | 0.086                  | 0.109                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 23230  | 782         | 22.99               | 24.00               | 1.262                  | 0.1              | 0.401                  | 0.506                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 16mm     | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.01             | 0.287                  | 0.361                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Bottom Face   | 17mm     | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.01             | 0.267                  | 0.336                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 4        | 13mm     | Ant 0   | DSI 1       | 23230  | 782         | 21.60               | 22.60               | 1.259                  | 0.06             | 0.086                  | 0.108                  |  |
|                | LTE Band 13 | 10M      | QPSK       | 1       | 0         | -             | Edge 1        | 10mm     | Ant 0   | DSI 0       | 23230  | 782         | 22.99               | 24.00               | 1.262                  | 0.1              | 0.116                  | 0.146                  |  |
| 04             | FR1 n13     | 10M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 156400 | 782         | 22.33               | 23.20               | 1.222                  | 0.01             | 1.020                  | <b>1.246</b>           |  |
|                | FR1 n13     | 10M      | QPSK       | 25      | 14        | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 156400 | 782         | 22.16               | 23.20               | 1.271                  | 0.03             | 0.969                  | 1.231                  |  |



**FCC SAR Test Report**

**Report No. : FA230408**

|    |             |     |      |     |    |               |             |      |       |       |        |     |       |       |       |       |       |              |
|----|-------------|-----|------|-----|----|---------------|-------------|------|-------|-------|--------|-----|-------|-------|-------|-------|-------|--------------|
|    | FR1 n13     | 10M | QPSK | 50  | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 156400 | 782 | 21.90 | 23.00 | 1.288 | 0.09  | 0.910 | 1.172        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 156400 | 782 | 22.33 | 23.20 | 1.222 | 0.1   | 0.401 | 0.490        |
|    | FR1 n13     | 10M | QPSK | 25  | 14 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 156400 | 782 | 22.16 | 23.20 | 1.271 | 0.05  | 0.380 | 0.483        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 156400 | 782 | 22.33 | 23.20 | 1.222 | 0.03  | 0.570 | 0.696        |
|    | FR1 n13     | 10M | QPSK | 25  | 14 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 156400 | 782 | 22.16 | 23.20 | 1.271 | 0.01  | 0.543 | 0.690        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 156400 | 782 | 19.31 | 20.60 | 1.346 | 0.06  | 0.500 | 0.673        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 156400 | 782 | 23.25 | 24.00 | 1.189 | 0.03  | 0.218 | 0.259        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 156400 | 782 | 23.25 | 24.00 | 1.189 | 0.01  | 0.063 | 0.075        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 156400 | 782 | 23.25 | 24.00 | 1.189 | 0.02  | 0.175 | 0.208        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 156400 | 782 | 22.33 | 23.20 | 1.222 | 0.03  | 0.194 | 0.237        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 156400 | 782 | 22.33 | 23.20 | 1.222 | 0.03  | 0.181 | 0.221        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 156400 | 782 | 22.33 | 23.20 | 1.222 | 0.01  | 0.064 | 0.078        |
|    | FR1 n13     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 156400 | 782 | 23.25 | 24.00 | 1.189 | 0.02  | 0.075 | 0.089        |
| 05 | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | 0.04  | 1.070 | <b>1.231</b> |
|    | LTE Band 14 | 10M | QPSK | 25  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.27 | 22.90 | 1.156 | 0.03  | 0.981 | 1.134        |
|    | LTE Band 14 | 10M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.21 | 22.90 | 1.172 | 0.1   | 0.968 | 1.135        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | 0.05  | 0.454 | 0.522        |
|    | LTE Band 14 | 10M | QPSK | 25  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.27 | 22.90 | 1.156 | 0.03  | 0.360 | 0.416        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | 0.01  | 0.596 | 0.686        |
|    | LTE Band 14 | 10M | QPSK | 25  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 23330  | 793 | 22.27 | 22.90 | 1.156 | 0.03  | 0.485 | 0.561        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 23330  | 793 | 19.49 | 20.30 | 1.205 | 0.09  | 0.512 | 0.617        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 23330  | 793 | 24.15 | 25.00 | 1.216 | 0.02  | 0.392 | 0.477        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 23330  | 793 | 24.15 | 25.00 | 1.216 | -0.04 | 0.123 | 0.150        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 23330  | 793 | 24.15 | 25.00 | 1.216 | 0.01  | 0.593 | 0.721        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 2 | 23330  | 793 | 23.33 | 24.50 | 1.309 | 0.04  | 0.401 | 0.525        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | 0.02  | 0.311 | 0.358        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | 0.02  | 0.294 | 0.338        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 23330  | 793 | 22.29 | 22.90 | 1.151 | -0.04 | 0.095 | 0.109        |
|    | LTE Band 14 | 10M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 23330  | 793 | 24.15 | 25.00 | 1.216 | 0.01  | 0.131 | 0.159        |
| 06 | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.02  | 1.010 | <b>1.234</b> |
|    | FR1 n14     | 10M | QPSK | 25  | 14 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.27 | 23.20 | 1.239 | -0.04 | 0.983 | 1.218        |
|    | FR1 n14     | 10M | QPSK | 50  | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.19 | 23.20 | 1.262 | 0.07  | 0.950 | 1.199        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.03  | 0.435 | 0.531        |
|    | FR1 n14     | 10M | QPSK | 25  | 14 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.27 | 23.20 | 1.239 | 0.05  | 0.419 | 0.519        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.02  | 0.608 | 0.743        |
|    | FR1 n14     | 10M | QPSK | 25  | 14 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 158600 | 793 | 22.27 | 23.20 | 1.239 | 0.01  | 0.579 | 0.717        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 158600 | 793 | 19.35 | 20.60 | 1.334 | 0.09  | 0.506 | 0.675        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 158600 | 793 | 23.22 | 24.00 | 1.197 | 0.05  | 0.269 | 0.322        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 158600 | 793 | 23.22 | 24.00 | 1.197 | 0.03  | 0.097 | 0.116        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 158600 | 793 | 23.22 | 24.00 | 1.197 | 0.01  | 0.352 | 0.421        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.05  | 0.254 | 0.310        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.05  | 0.226 | 0.276        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 158600 | 793 | 22.33 | 23.20 | 1.222 | 0.01  | 0.121 | 0.148        |
|    | FR1 n14     | 10M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 158600 | 793 | 23.22 | 24.00 | 1.197 | 0.01  | 0.087 | 0.104        |
| 07 | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.51 | 22.60 | 1.285 | 0.04  | 0.975 | <b>1.253</b> |
|    | LTE Band 71 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.46 | 22.60 | 1.300 | 0.03  | 0.940 | 1.222        |
|    | LTE Band 71 | 20M | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.42 | 22.60 | 1.312 | 0.01  | 0.929 | 1.219        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.51 | 22.60 | 1.285 | 0.03  | 0.835 | 1.073        |
|    | LTE Band 71 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.46 | 22.60 | 1.300 | 0.01  | 0.804 | 1.045        |
|    | LTE Band 71 | 20M | QPSK | 100 | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.42 | 22.60 | 1.312 | 0.03  | 0.787 | 1.033        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 133322 | 683 | 18.80 | 20.00 | 1.318 | 0.01  | 0.461 | 0.608        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.51 | 22.60 | 1.285 | -0.02 | 0.239 | 0.307        |
|    | LTE Band 71 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 133322 | 683 | 21.46 | 22.60 | 1.300 | 0.05  | 0.191 | 0.248        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 133322 | 683 | 23.75 | 25.00 | 1.334 | 0.01  | 0.267 | 0.356        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 133322 | 683 | 23.75 | 25.00 | 1.334 | 0.03  | 0.045 | 0.060        |
|    | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 133322 | 683 | 23.75 | 25.00 | 1.334 | 0.06  | 0.299 | 0.399        |



**FCC SAR Test Report**

**Report No. : FA230408**

|                |             |     |      |     |    |               |             |      |       |       |        |       |       |       |       |       |       |       |
|----------------|-------------|-----|------|-----|----|---------------|-------------|------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
|                | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 133322 | 683   | 21.51 | 22.60 | 1.285 | 0.01  | 0.198 | 0.254 |
|                | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 133322 | 683   | 21.51 | 22.60 | 1.285 | 0.01  | 0.186 | 0.239 |
|                | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 133322 | 683   | 21.51 | 22.60 | 1.285 | 0.03  | 0.065 | 0.084 |
|                | LTE Band 71 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 133322 | 683   | 23.75 | 25.00 | 1.334 | 0.06  | 0.112 | 0.149 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.02  | 0.969 | 1.206 |
| 08             | FR1 n71     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.03 | 23.00 | 1.250 | 0.08  | 0.989 | 1.237 |
|                | FR1 n71     | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 21.89 | 23.00 | 1.291 | 0.01  | 0.945 | 1.220 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.07  | 0.715 | 0.890 |
|                | FR1 n71     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.03 | 23.00 | 1.250 | 0.03  | 0.702 | 0.878 |
|                | FR1 n71     | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 21.89 | 23.00 | 1.291 | 0.05  | 0.687 | 0.887 |
|                | FR1 n71     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 136100 | 680.5 | 18.96 | 20.40 | 1.393 | 0.02  | 0.480 | 0.669 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.06  | 0.234 | 0.291 |
|                | FR1 n71     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 136100 | 680.5 | 22.03 | 23.00 | 1.250 | -0.04 | 0.221 | 0.276 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 136100 | 680.5 | 23.36 | 24.00 | 1.159 | 0.09  | 0.260 | 0.301 |
|                | FR1 n71     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 136100 | 680.5 | 23.33 | 24.00 | 1.167 | 0.01  | 0.263 | 0.307 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 136100 | 680.5 | 23.36 | 24.00 | 1.159 | 0.03  | 0.048 | 0.056 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 136100 | 680.5 | 23.36 | 24.00 | 1.159 | 0.02  | 0.243 | 0.282 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.09  | 0.215 | 0.268 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.09  | 0.204 | 0.254 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 136100 | 680.5 | 22.05 | 23.00 | 1.245 | 0.03  | 0.056 | 0.070 |
|                | FR1 n71     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 136100 | 680.5 | 23.36 | 24.00 | 1.159 | 0.02  | 0.094 | 0.109 |
| <b>835 MHZ</b> |             |     |      |     |    |               |             |      |       |       |        |       |       |       |       |       |       |       |
| 09             | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.02  | 1.050 | 1.242 |
|                | LTE Band 26 | 15M | QPSK | 36  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.18 | 23.20 | 1.265 | 0.08  | 0.935 | 1.183 |
|                | LTE Band 26 | 15M | QPSK | 75  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.26 | 23.20 | 1.242 | 0.01  | 0.956 | 1.187 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.06  | 0.428 | 0.506 |
|                | LTE Band 26 | 15M | QPSK | 36  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.18 | 23.20 | 1.265 | -0.04 | 0.386 | 0.488 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.07  | 0.480 | 0.568 |
|                | LTE Band 26 | 15M | QPSK | 36  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26865  | 831.5 | 22.18 | 23.20 | 1.265 | 0.03  | 0.387 | 0.489 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 26865  | 831.5 | 19.91 | 20.60 | 1.172 | 0.02  | 0.467 | 0.547 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 26865  | 831.5 | 23.23 | 24.00 | 1.194 | 0.01  | 0.319 | 0.381 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 26865  | 831.5 | 23.23 | 24.00 | 1.194 | 0.02  | 0.108 | 0.129 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26865  | 831.5 | 23.23 | 24.00 | 1.194 | 0.05  | 0.499 | 0.596 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.01  | 0.276 | 0.327 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.01  | 0.261 | 0.309 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 26865  | 831.5 | 22.47 | 23.20 | 1.183 | 0.02  | 0.046 | 0.054 |
|                | LTE Band 26 | 15M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 26865  | 831.5 | 23.23 | 24.00 | 1.194 | 0.05  | 0.135 | 0.161 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.89 | 22.80 | 1.233 | 0.01  | 1.010 | 1.245 |
|                | FR1 n5      | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.87 | 22.80 | 1.239 | -0.09 | 0.986 | 1.221 |
|                | FR1 n5      | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.84 | 22.80 | 1.247 | 0.08  | 0.975 | 1.216 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.89 | 22.80 | 1.233 | 0.03  | 0.463 | 0.571 |
|                | FR1 n5      | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.87 | 22.80 | 1.239 | 0.03  | 0.425 | 0.526 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 167300 | 836.5 | 19.16 | 20.20 | 1.271 | 0.01  | 0.501 | 0.637 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.89 | 22.80 | 1.233 | -0.04 | 0.430 | 0.530 |
|                | FR1 n5      | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 167300 | 836.5 | 21.87 | 22.80 | 1.239 | 0.07  | 0.407 | 0.504 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 167300 | 836.5 | 24.36 | 25.00 | 1.159 | 0.04  | 0.142 | 0.165 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 167300 | 836.5 | 24.36 | 25.00 | 1.159 | 0.01  | 0.404 | 0.468 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 167300 | 836.5 | 24.36 | 25.00 | 1.159 | -0.02 | 0.505 | 0.585 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 167300 | 836.5 | 21.89 | 22.80 | 1.233 | 0.01  | 0.312 | 0.385 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 167300 | 836.5 | 21.89 | 22.80 | 1.233 | 0.01  | 0.286 | 0.353 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 167300 | 836.5 | 21.87 | 22.80 | 1.239 | 0.04  | 0.081 | 0.100 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 167300 | 836.5 | 24.36 | 25.00 | 1.159 | -0.02 | 0.142 | 0.165 |
| 10             | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 167300 | 836.5 | 23.59 | 24.50 | 1.233 | 0.05  | 1.020 | 1.258 |
|                | FR1 n5      | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 167300 | 836.5 | 23.56 | 24.50 | 1.242 | 0.03  | 0.975 | 1.211 |
|                | FR1 n5      | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 167300 | 836.5 | 23.53 | 24.00 | 1.114 | 0.08  | 0.959 | 1.069 |
|                | FR1 n5      | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 167300 | 836.5 | 23.59 | 24.50 | 1.233 | 0.03  | 0.622 | 0.766 |





**FCC SAR Test Report**

**Report No. : FA230408**

|                 |              |     |      |     |    |               |             |      |       |       |               |             |       |       |       |       |       |              |
|-----------------|--------------|-----|------|-----|----|---------------|-------------|------|-------|-------|---------------|-------------|-------|-------|-------|-------|-------|--------------|
|                 | FR1 n5       | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 167300        | 836.5       | 23.56 | 24.50 | 1.242 | 0.03  | 0.589 | 0.731        |
|                 | FR1 n5       | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 167300        | 836.5       | 24.51 | 25.00 | 1.119 | -0.04 | 0.152 | 0.170        |
|                 | FR1 n5       | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 167300        | 836.5       | 24.36 | 25.00 | 1.159 | 0.07  | 0.096 | 0.111        |
|                 | FR1 n5       | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 167300        | 836.5       | 24.51 | 25.00 | 1.119 | 0.07  | 0.219 | 0.245        |
|                 | FR1 n5       | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 167300        | 836.5       | 24.51 | 25.00 | 1.119 | 0.03  | 0.071 | 0.079        |
|                 | FR1 n5       | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 2 | DSI 1 | 167300        | 836.5       | 23.59 | 24.50 | 1.233 | 0.07  | 0.171 | 0.211        |
|                 | FR1 n5       | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 2 | DSI 1 | 167300        | 836.5       | 23.59 | 24.50 | 1.233 | 0.03  | 0.059 | 0.073        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | 0.08  | 0.994 | 1.176        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 20525         | 836.5       | 23.43 | 24.00 | 1.140 | 0.01  | 0.978 | 1.115        |
|                 | LTE Band 5   | 10M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 20525         | 836.5       | 23.46 | 24.00 | 1.132 | 0.06  | 0.960 | 1.087        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | 0.03  | 0.553 | 0.654        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 20525         | 836.5       | 23.43 | 24.00 | 1.140 | 0.03  | 0.422 | 0.481        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | -0.04 | 0.161 | 0.190        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 20525         | 836.5       | 23.43 | 24.00 | 1.140 | 0.07  | 0.095 | 0.108        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 2 | DSI 0 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | -0.02 | 0.208 | 0.246        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 17mm | Ant 2 | DSI 0 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | 0.05  | 0.083 | 0.098        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 2 | DSI 1 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | -0.02 | 0.175 | 0.207        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 2 | DSI 1 | 20525         | 836.5       | 24.27 | 25.00 | 1.183 | 0.05  | 0.061 | 0.072        |
| 11              | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | 0.02  | 1.020 | <b>1.235</b> |
|                 | LTE Band 5B  | 15M | QPSK | 1   | 49 | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20476+20575   | 831.6+841.5 | 22.35 | 23.30 | 1.245 | 0.08  | 0.985 | 1.226        |
|                 | LTE Band 5B  | 10M | QPSK | 1   | 49 | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20450+20549   | 829+838.9   | 22.21 | 23.30 | 1.285 | -0.03 | 0.917 | 1.179        |
|                 | LTE Band 5B  | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20600+20501   | 844+834.1   | 22.15 | 23.30 | 1.303 | 0.06  | 0.912 | 1.188        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.42 | 23.30 | 1.225 | 0.01  | 0.978 | 1.198        |
|                 | LTE Band 5   | 10M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.39 | 23.30 | 1.233 | 0.06  | 0.996 | 1.228        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | 0.03  | 0.553 | 0.669        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.42 | 23.30 | 1.225 | 0.03  | 0.501 | 0.614        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | -0.04 | 0.405 | 0.490        |
|                 | LTE Band 5   | 10M | QPSK | 25  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 20525         | 836.5       | 22.42 | 23.30 | 1.225 | 0.07  | 0.379 | 0.464        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 20525         | 836.5       | 19.91 | 20.70 | 1.199 | 0.02  | 0.533 | 0.639        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 20525         | 836.5       | 24.21 | 25.00 | 1.199 | -0.02 | 0.387 | 0.464        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 20525         | 836.5       | 24.21 | 25.00 | 1.199 | 0.05  | 0.133 | 0.160        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 20525         | 836.5       | 24.21 | 25.00 | 1.199 | -0.04 | 0.387 | 0.464        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | -0.02 | 0.305 | 0.369        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | -0.01 | 0.279 | 0.338        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 20525         | 836.5       | 22.47 | 23.30 | 1.211 | 0.05  | 0.061 | 0.074        |
|                 | LTE Band 5   | 10M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 20525         | 836.5       | 24.21 | 25.00 | 1.199 | -0.04 | 0.131 | 0.157        |
| <b>1750 MHZ</b> |              |     |      |     |    |               |             |      |       |       |               |             |       |       |       |       |       |              |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.95 | 19.70 | 1.189 | 0.16  | 1.040 | 1.236        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132072        | 1720        | 18.78 | 19.70 | 1.236 | -0.08 | 1.010 | 1.248        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132572        | 1770        | 18.93 | 19.70 | 1.194 | -0.08 | 1.050 | 1.254        |
|                 | LTE Band 66C | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132572+132374 | 1770+1750.2 | 18.83 | 19.70 | 1.222 | 0.03  | 1.000 | 1.222        |
|                 | LTE Band 66C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132072+132270 | 1720+1739.8 | 18.67 | 19.70 | 1.268 | -0.04 | 0.923 | 1.170        |
|                 | LTE Band 66C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132322+132520 | 1745+1764.8 | 18.91 | 19.70 | 1.199 | 0.02  | 0.982 | 1.178        |
|                 | LTE Band 66  | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.82 | 19.70 | 1.225 | 0.06  | 0.838 | 1.026        |
|                 | LTE Band 66  | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132072        | 1720        | 18.65 | 19.70 | 1.274 | 0.16  | 0.835 | 1.063        |
|                 | LTE Band 66  | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132572        | 1770        | 18.67 | 19.70 | 1.268 | -0.05 | 0.860 | 1.090        |
|                 | LTE Band 66  | 20M | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.76 | 19.70 | 1.242 | 0.01  | 0.844 | 1.048        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.95 | 19.70 | 1.189 | 0.03  | 0.583 | 0.693        |
|                 | LTE Band 66  | 20M | QPSK | 50  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.82 | 19.70 | 1.225 | -0.11 | 0.486 | 0.595        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.95 | 19.70 | 1.189 | -0.15 | 0.465 | 0.553        |
|                 | LTE Band 66  | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 132322        | 1745        | 18.82 | 19.70 | 1.225 | 0.14  | 0.377 | 0.462        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 132572        | 1770        | 16.18 | 17.10 | 1.236 | 0.1   | 0.487 | 0.602        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 132572        | 1770        | 22.19 | 23.00 | 1.205 | -0.02 | 0.528 | 0.636        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 132322        | 1745        | 22.21 | 23.00 | 1.199 | 0.02  | 0.130 | 0.156        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132322        | 1745        | 22.21 | 23.00 | 1.199 | 0.03  | 1.030 | 1.235        |
|                 | LTE Band 66  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132072        | 1720        | 22.16 | 23.00 | 1.213 | 0.06  | 1.000 | 1.213        |



**FCC SAR Test Report**

**Report No. : FA230408**

|    |             |     |      |     |    |               |             |      |       |       |        |      |       |       |       |       |       |       |
|----|-------------|-----|------|-----|----|---------------|-------------|------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132572 | 1770 | 22.19 | 23.00 | 1.205 | 0.01  | 0.989 | 1.192 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132322 | 1745 | 22.20 | 23.00 | 1.202 | 0.08  | 0.956 | 1.149 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132072 | 1720 | 22.13 | 23.00 | 1.222 | 0.01  | 0.938 | 1.146 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132572 | 1770 | 22.15 | 23.00 | 1.216 | -0.02 | 0.990 | 1.204 |
|    | LTE Band 66 | 20M | QPSK | 100 | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 132322 | 1745 | 22.16 | 23.00 | 1.213 | 0.09  | 0.975 | 1.183 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 2 | 132322 | 1745 | 19.84 | 20.40 | 1.138 | 0.03  | 0.471 | 0.536 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 132572 | 1770 | 18.93 | 19.70 | 1.194 | -0.02 | 0.262 | 0.313 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 132572 | 1770 | 18.93 | 19.70 | 1.194 | -0.02 | 0.251 | 0.300 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 132572 | 1770 | 18.93 | 19.70 | 1.194 | 0.02  | 0.063 | 0.075 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 132322 | 1745 | 22.21 | 23.00 | 1.199 | 0.03  | 0.216 | 0.259 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132322 | 1745 | 16.24 | 17.50 | 1.337 | 0.03  | 0.901 | 1.204 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132072 | 1720 | 16.13 | 17.50 | 1.371 | 0.01  | 0.847 | 1.161 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132572 | 1770 | 16.22 | 17.50 | 1.343 | 0.05  | 0.875 | 1.175 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132322 | 1745 | 16.13 | 17.50 | 1.371 | -0.03 | 0.886 | 1.215 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132072 | 1720 | 16.11 | 17.50 | 1.377 | 0.01  | 0.823 | 1.133 |
| 12 | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132572 | 1770 | 16.12 | 17.50 | 1.374 | -0.06 | 0.915 | 1.257 |
|    | LTE Band 66 | 20M | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 132322 | 1745 | 16.17 | 17.50 | 1.358 | 0.02  | 0.815 | 1.107 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 132322 | 1745 | 16.24 | 17.50 | 1.337 | 0.05  | 0.579 | 0.774 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 132322 | 1745 | 16.13 | 17.50 | 1.371 | 0.03  | 0.544 | 0.746 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 132322 | 1745 | 23.44 | 25.00 | 1.432 | 0.06  | 0.009 | 0.013 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 132322 | 1745 | 22.67 | 24.00 | 1.358 | -0.01 | 0.011 | 0.015 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 2 | DSI 0 | 132572 | 1770 | 23.41 | 25.00 | 1.442 | 0.09  | 0.466 | 0.672 |
|    | LTE Band 66 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 17mm | Ant 2 | DSI 0 | 132572 | 1770 | 22.67 | 24.00 | 1.358 | 0.02  | 0.374 | 0.508 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 17mm | Ant 2 | DSI 0 | 132072 | 1720 | 23.41 | 25.00 | 1.442 | 0.08  | 0.265 | 0.382 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 2 | DSI 1 | 132072 | 1720 | 16.13 | 17.50 | 1.371 | 0.08  | 0.215 | 0.295 |
|    | LTE Band 66 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 2 | DSI 1 | 132572 | 1770 | 16.22 | 17.50 | 1.343 | 0.09  | 0.275 | 0.369 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | -0.08 | 1.020 | 1.249 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.32 | 19.30 | 1.253 | 0.01  | 0.969 | 1.214 |
|    | FR1 n66     | 30M | QPSK | 160 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.25 | 19.30 | 1.274 | -0.06 | 0.972 | 1.238 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | 0.02  | 0.620 | 0.759 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.32 | 19.30 | 1.253 | 0.06  | 0.600 | 0.752 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | 0.05  | 0.520 | 0.637 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 349000 | 1745 | 18.32 | 19.30 | 1.253 | 0.03  | 0.443 | 0.555 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 349000 | 1745 | 15.34 | 16.70 | 1.368 | 0.06  | 0.503 | 0.688 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 349000 | 1745 | 21.92 | 22.40 | 1.117 | 0.05  | 0.622 | 0.695 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 349000 | 1745 | 21.92 | 22.40 | 1.117 | 0.01  | 0.153 | 0.171 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 349000 | 1745 | 21.92 | 22.40 | 1.117 | 0.03  | 1.040 | 1.162 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 349000 | 1745 | 21.90 | 22.40 | 1.122 | 0.09  | 1.030 | 1.156 |
|    | FR1 n66     | 30M | QPSK | 160 | 0  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 349000 | 1745 | 21.80 | 22.40 | 1.148 | 0.01  | 0.983 | 1.129 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 2 | 349000 | 1745 | 19.35 | 19.80 | 1.109 | 0.04  | 0.532 | 0.590 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | 0.05  | 0.354 | 0.434 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | 0.05  | 0.324 | 0.397 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 349000 | 1745 | 18.42 | 19.30 | 1.225 | 0.01  | 0.102 | 0.125 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 349000 | 1745 | 21.92 | 22.40 | 1.117 | 0.03  | 0.286 | 0.319 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 349000 | 1745 | 17.45 | 18.10 | 1.161 | 0.06  | 0.955 | 1.109 |
| 13 | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 349000 | 1745 | 17.41 | 18.10 | 1.172 | 0.04  | 1.070 | 1.254 |
|    | FR1 n66     | 30M | QPSK | 160 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 349000 | 1745 | 17.42 | 18.10 | 1.169 | -0.06 | 0.961 | 1.124 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 349000 | 1745 | 17.45 | 18.10 | 1.161 | -0.01 | 0.662 | 0.769 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 349000 | 1745 | 17.41 | 18.10 | 1.172 | 0.05  | 0.613 | 0.719 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 349000 | 1745 | 24.18 | 25.00 | 1.208 | 0.02  | 0.014 | 0.017 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 349000 | 1745 | 23.98 | 25.00 | 1.265 | 0.06  | 0.020 | 0.025 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 349000 | 1745 | 24.18 | 25.00 | 1.208 | 0.06  | 0.500 | 0.604 |
|    | FR1 n66     | 30M | QPSK | 80  | 40 | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 349000 | 1745 | 23.98 | 25.00 | 1.265 | 0.01  | 0.471 | 0.596 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 349000 | 1745 | 24.18 | 25.00 | 1.208 | 0.02  | 0.367 | 0.443 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 2 | DSI 1 | 349000 | 1745 | 17.45 | 18.10 | 1.161 | 0.02  | 0.245 | 0.285 |
|    | FR1 n66     | 30M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 2 | DSI 1 | 349000 | 1745 | 17.45 | 18.10 | 1.161 | 0.06  | 0.263 | 0.305 |



| 1900 MHZ |             |     |      |     |    |               |             |      |       |       |        |        |       |       |       |       |       |       |
|----------|-------------|-----|------|-----|----|---------------|-------------|------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.09 | 20.10 | 1.262 | 0.01  | 0.984 | 1.242 |
| 14       | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26140  | 1860   | 19.08 | 20.10 | 1.265 | -0.05 | 0.993 | 1.256 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26590  | 1905   | 19.05 | 20.10 | 1.274 | -0.06 | 0.931 | 1.186 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.03 | 20.10 | 1.279 | 0.02  | 0.953 | 1.219 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26140  | 1860   | 18.93 | 20.10 | 1.309 | 0.01  | 0.957 | 1.253 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26590  | 1905   | 18.98 | 20.10 | 1.294 | -0.06 | 0.943 | 1.220 |
|          | LTE Band 25 | 20M | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 18.96 | 20.10 | 1.300 | 0.02  | 0.944 | 1.227 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.09 | 20.10 | 1.262 | 0.06  | 0.548 | 0.691 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.03 | 20.10 | 1.279 | 0.02  | 0.457 | 0.585 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.09 | 20.10 | 1.262 | -0.01 | 0.815 | 1.028 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26140  | 1860   | 19.08 | 20.10 | 1.265 | 0.05  | 0.800 | 1.012 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26590  | 1905   | 19.05 | 20.10 | 1.274 | -0.03 | 0.796 | 1.014 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 19.03 | 20.10 | 1.279 | 0.01  | 0.779 | 0.997 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26140  | 1860   | 18.93 | 20.10 | 1.309 | -0.06 | 0.780 | 1.021 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26590  | 1905   | 18.98 | 20.10 | 1.294 | 0.02  | 0.785 | 1.016 |
|          | LTE Band 25 | 20M | QPSK | 100 | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 26340  | 1880   | 18.96 | 20.10 | 1.300 | 0.06  | 0.770 | 1.001 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 3 | 26140  | 1860   | 16.24 | 17.50 | 1.337 | -0.05 | 0.487 | 0.651 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 26140  | 1860   | 21.47 | 22.80 | 1.358 | -0.01 | 0.314 | 0.427 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 26340  | 1880   | 21.65 | 22.80 | 1.303 | 0.02  | 0.142 | 0.185 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26340  | 1880   | 21.65 | 22.80 | 1.303 | 0.06  | 0.910 | 1.186 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26140  | 1860   | 21.47 | 22.80 | 1.358 | 0.09  | 0.860 | 1.168 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26590  | 1905   | 21.29 | 22.80 | 1.416 | 0.01  | 0.831 | 1.177 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26340  | 1880   | 21.59 | 22.80 | 1.321 | 0.03  | 0.890 | 1.176 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26140  | 1860   | 21.43 | 22.80 | 1.371 | 0.04  | 0.856 | 1.173 |
|          | LTE Band 25 | 20M | QPSK | 50  | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26590  | 1905   | 21.49 | 22.80 | 1.352 | -0.03 | 0.816 | 1.103 |
|          | LTE Band 25 | 20M | QPSK | 100 | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 26340  | 1880   | 21.53 | 22.80 | 1.340 | 0.04  | 0.842 | 1.128 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 2 | 26340  | 1880   | 19.26 | 20.20 | 1.242 | 0.01  | 0.502 | 0.623 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 26140  | 1860   | 19.08 | 20.10 | 1.265 | -0.01 | 0.192 | 0.243 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 26140  | 1860   | 19.08 | 20.10 | 1.265 | -0.01 | 0.181 | 0.229 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 26340  | 1880   | 19.03 | 20.10 | 1.279 | 0.02  | 0.071 | 0.091 |
|          | LTE Band 25 | 20M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 26340  | 1880   | 21.65 | 22.80 | 1.303 | 0.06  | 0.253 | 0.330 |
| 15       | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | -0.07 | 0.993 | 1.253 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 372000 | 1860   | 18.56 | 19.70 | 1.300 | 0.06  | 0.940 | 1.222 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 381000 | 1905   | 18.48 | 19.70 | 1.324 | -0.01 | 0.924 | 1.224 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.60 | 19.70 | 1.288 | 0.05  | 0.967 | 1.246 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 372000 | 1860   | 18.57 | 19.70 | 1.297 | -0.03 | 0.948 | 1.230 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 381000 | 1905   | 18.54 | 19.70 | 1.306 | 0.01  | 0.936 | 1.223 |
|          | FR1 n25     | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.56 | 19.70 | 1.300 | -0.06 | 0.943 | 1.226 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | 0.02  | 0.253 | 0.319 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.60 | 19.70 | 1.288 | 0.02  | 0.236 | 0.304 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | 0.02  | 0.243 | 0.307 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.60 | 19.70 | 1.288 | 0.05  | 0.230 | 0.296 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 0 | DSI 3 | 376500 | 1882.5 | 15.69 | 17.10 | 1.384 | 0.02  | 0.475 | 0.657 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 376500 | 1882.5 | 23.87 | 25.00 | 1.297 | 0.02  | 0.497 | 0.645 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 376500 | 1882.5 | 23.87 | 25.00 | 1.297 | 0.06  | 0.128 | 0.166 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 376500 | 1882.5 | 23.87 | 25.00 | 1.297 | -0.08 | 0.935 | 1.213 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 372000 | 1860   | 23.76 | 25.00 | 1.330 | 0.03  | 0.910 | 1.211 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 381000 | 1905   | 23.83 | 25.00 | 1.309 | 0.01  | 0.905 | 1.185 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 376500 | 1882.5 | 23.84 | 25.00 | 1.306 | 0.05  | 0.896 | 1.170 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 372000 | 1860   | 23.59 | 25.00 | 1.384 | -0.03 | 0.854 | 1.182 |
|          | FR1 n25     | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 381000 | 1905   | 23.62 | 25.00 | 1.374 | 0.04  | 0.862 | 1.184 |
|          | FR1 n25     | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 376500 | 1882.5 | 22.97 | 24.00 | 1.268 | 0.05  | 0.752 | 0.953 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 2 | 376500 | 1882.5 | 21.14 | 22.80 | 1.466 | -0.08 | 0.413 | 0.605 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | 0.02  | 0.262 | 0.331 |
|          | FR1 n25     | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | 0.02  | 0.251 | 0.317 |





**FCC SAR Test Report**

**Report No. : FA230408**

|    |            |     |      |     |    |               |             |      |       |       |        |        |       |       |       |       |       |       |
|----|------------|-----|------|-----|----|---------------|-------------|------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 376500 | 1882.5 | 18.69 | 19.70 | 1.262 | 0.06  | 0.061 | 0.077 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 376500 | 1882.5 | 23.87 | 25.00 | 1.297 | -0.08 | 0.253 | 0.328 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.95 | 15.60 | 1.161 | -0.06 | 0.975 | 1.132 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 372000 | 1860   | 14.91 | 15.60 | 1.172 | 0.02  | 0.977 | 1.145 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | 0.01  | 0.912 | 1.084 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.94 | 15.60 | 1.164 | 0.02  | 0.982 | 1.143 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 372000 | 1860   | 14.81 | 15.60 | 1.199 | 0.01  | 1.030 | 1.235 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | -0.07 | 1.040 | 1.236 |
|    | FR1 n25    | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.90 | 15.60 | 1.175 | 0.04  | 1.000 | 1.175 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.95 | 15.60 | 1.161 | 0.02  | 0.886 | 1.029 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 372000 | 1860   | 14.91 | 15.60 | 1.172 | 0.06  | 0.877 | 1.028 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | -0.01 | 0.894 | 1.063 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.94 | 15.60 | 1.164 | -0.06 | 0.824 | 0.959 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 372000 | 1860   | 14.81 | 15.60 | 1.199 | 0.02  | 0.849 | 1.018 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | 0.06  | 0.817 | 0.971 |
|    | FR1 n25    | 20M | QPSK | 100 | 0  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 376500 | 1882.5 | 14.90 | 15.60 | 1.175 | -0.01 | 0.800 | 0.940 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 376500 | 1882.5 | 24.28 | 25.00 | 1.180 | 0.01  | 0.009 | 0.011 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 376500 | 1882.5 | 24.12 | 25.00 | 1.225 | -0.06 | 0.001 | 0.001 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 381000 | 1905   | 24.18 | 25.00 | 1.208 | 0.06  | 0.500 | 0.604 |
|    | FR1 n25    | 20M | QPSK | 50  | 28 | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 381000 | 1905   | 23.98 | 25.00 | 1.265 | 0.02  | 0.491 | 0.621 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 381000 | 1905   | 24.18 | 25.00 | 1.208 | 0.01  | 0.654 | 0.790 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | 0.01  | 0.364 | 0.433 |
|    | FR1 n25    | 20M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 2 | DSI 1 | 381000 | 1905   | 14.85 | 15.60 | 1.189 | 0.06  | 0.278 | 0.330 |
| 16 | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.35 | 16.40 | 1.274 | -0.09 | 0.969 | 1.234 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 18700  | 1860   | 15.26 | 16.40 | 1.300 | -0.06 | 0.913 | 1.187 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 19100  | 1900   | 15.23 | 16.40 | 1.309 | 0.02  | 0.919 | 1.203 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.21 | 16.40 | 1.315 | 0.06  | 0.934 | 1.228 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 18700  | 1860   | 15.12 | 16.40 | 1.343 | -0.01 | 0.915 | 1.229 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 19100  | 1900   | 15.12 | 16.40 | 1.343 | 0.05  | 0.905 | 1.215 |
|    | LTE Band 2 | 20M | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.18 | 16.40 | 1.324 | -0.03 | 0.903 | 1.196 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.35 | 16.40 | 1.274 | 0.02  | 0.715 | 0.911 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 18700  | 1860   | 15.26 | 16.40 | 1.300 | 0.06  | 0.748 | 0.973 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 19100  | 1900   | 15.23 | 16.40 | 1.309 | -0.01 | 0.781 | 1.022 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.21 | 16.40 | 1.315 | 0.05  | 0.698 | 0.918 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 18700  | 1860   | 15.12 | 16.40 | 1.343 | 0.01  | 0.710 | 0.953 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 19100  | 1900   | 15.12 | 16.40 | 1.343 | 0.02  | 0.712 | 0.956 |
|    | LTE Band 2 | 20M | QPSK | 100 | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 18900  | 1880   | 15.18 | 16.40 | 1.324 | 0.03  | 0.612 | 0.810 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 18900  | 1880   | 24.32 | 24.50 | 1.042 | 0.01  | 0.010 | 0.010 |
|    | LTE Band 2 | 20M | QPSK | 50  | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 18900  | 1880   | 23.41 | 23.50 | 1.021 | -0.06 | 0.001 | 0.001 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 2 | DSI 0 | 18900  | 1880   | 24.32 | 24.50 | 1.042 | 0.02  | 0.459 | 0.478 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 17mm | Ant 2 | DSI 0 | 19100  | 1900   | 24.22 | 24.50 | 1.067 | 0.01  | 0.747 | 0.797 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 2 | DSI 1 | 19100  | 1900   | 15.23 | 16.40 | 1.309 | 0.01  | 0.334 | 0.437 |
|    | LTE Band 2 | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 2 | DSI 1 | 18900  | 1880   | 15.35 | 16.40 | 1.274 | 0.02  | 0.265 | 0.337 |



| Plot No.        | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode          | Test Position | Gap (mm) | Antenna | Power State | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|-----------------|-------------|----------|------------|---------|-----------|---------------|---------------|----------|---------|-------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| <b>2600 MHZ</b> |             |          |            |         |           |               |               |          |         |             |             |             |                     |                     |                        |              |                           |                  |                        |                        |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.36               | 14.40               | 1.271                  | -            | -                         | -0.1             | 0.378                  | 0.480                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.32               | 14.40               | 1.282                  | -            | -                         | -0.14            | 0.318                  | 0.408                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.36               | 14.40               | 1.271                  | -            | -                         | 0.1              | 0.117                  | 0.149                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 1        | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.32               | 14.40               | 1.282                  | -            | -                         | 0.04             | 0.089                  | 0.114                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.36               | 14.40               | 1.271                  | -            | -                         | -0.03            | 0.924                  | 1.174                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 20850       | 2510        | 13.29               | 14.40               | 1.291                  | -            | -                         | -0.03            | 0.963                  | 1.243                  |
| 17              | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21350       | 2560        | 13.31               | 14.40               | 1.285                  | -            | -                         | -0.07            | 0.977                  | 1.256                  |
|                 | LTE Band 7C | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21350+21152 | 2560+2540.2 | 13.22               | 14.40               | 1.312                  | -            | -                         | 0.06             | 0.945                  | 1.240                  |
|                 | LTE Band 7C | 20M      | QPSK       | 1       | 99        | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 20850+21048 | 2510+2529.8 | 13.11               | 14.40               | 1.346                  | -            | -                         | -0.03            | 0.897                  | 1.207                  |
|                 | LTE Band 7C | 20M      | QPSK       | 1       | 99        | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21100+21298 | 2535+2554.8 | 13.25               | 14.40               | 1.303                  | -            | -                         | 0.08             | 0.877                  | 1.143                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.32               | 14.40               | 1.282                  | -            | -                         | 0.18             | 0.947                  | 1.214                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 20850       | 2510        | 13.30               | 14.40               | 1.288                  | -            | -                         | 0.02             | 0.931                  | 1.199                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21350       | 2560        | 13.31               | 14.40               | 1.285                  | -            | -                         | -0.06            | 0.918                  | 1.180                  |
|                 | LTE Band 7  | 20M      | QPSK       | 100     | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 13.32               | 14.40               | 1.282                  | -            | -                         | 0.08             | 0.940                  | 1.205                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 0   | DSI 3       | 21350       | 2560        | 10.74               | 11.80               | 1.276                  | -            | -                         | 0.01             | 0.471                  | 0.601                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 18mm     | Ant 0   | DSI 0       | 21100       | 2535        | 23.39               | 24.00               | 1.151                  | -            | -                         | 0.14             | 0.433                  | 0.498                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 20mm     | Ant 0   | DSI 0       | 21350       | 2560        | 23.34               | 24.00               | 1.164                  | -            | -                         | 0.13             | 0.658                  | 0.766                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21100       | 2535        | 23.39               | 24.00               | 1.151                  | -            | -                         | 0.07             | 1.050                  | 1.208                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 20850       | 2510        | 23.29               | 24.00               | 1.178                  | -            | -                         | 0.03             | 1.000                  | 1.178                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21350       | 2560        | 23.34               | 24.00               | 1.164                  | -            | -                         | 0.01             | 1.030                  | 1.199                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21100       | 2535        | 22.58               | 23.00               | 1.102                  | -            | -                         | -0.02            | 0.820                  | 0.903                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 20850       | 2510        | 22.55               | 23.00               | 1.109                  | -            | -                         | 0.06             | 0.806                  | 0.894                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21350       | 2560        | 22.50               | 23.00               | 1.122                  | -            | -                         | 0.04             | 0.816                  | 0.916                  |
|                 | LTE Band 7  | 20M      | QPSK       | 100     | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21100       | 2535        | 22.48               | 23.00               | 1.127                  | -            | -                         | 0.08             | 0.811                  | 0.914                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 2mm      | Ant 0   | DSI 2       | 21100       | 2535        | 21.13               | 21.40               | 1.064                  | -            | -                         | 0.07             | 0.461                  | 0.491                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 16mm     | Ant 0   | DSI 1       | 21100       | 2535        | 13.36               | 14.40               | 1.271                  | -            | -                         | 0.14             | 0.153                  | 0.194                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 17mm     | Ant 0   | DSI 1       | 21100       | 2535        | 13.36               | 14.40               | 1.271                  | -            | -                         | 0.14             | 0.141                  | 0.179                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 13mm     | Ant 0   | DSI 1       | 21350       | 2560        | 13.31               | 14.40               | 1.285                  | -            | -                         | 0.13             | 0.186                  | 0.239                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 1        | 10mm     | Ant 0   | DSI 0       | 21100       | 2535        | 23.39               | 24.00               | 1.151                  | -            | -                         | 0.07             | 0.351                  | 0.404                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 21100       | 2535        | 16.10               | 17.00               | 1.230                  | -            | -                         | 0.07             | 1.020                  | 1.255                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 20850       | 2510        | 15.92               | 17.00               | 1.282                  | -            | -                         | 0.01             | 0.959                  | 1.230                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 21350       | 2560        | 16.03               | 17.00               | 1.250                  | -            | -                         | -0.07            | 0.966                  | 1.208                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 21100       | 2535        | 16.08               | 17.00               | 1.236                  | -            | -                         | 0.02             | 0.951                  | 1.175                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 20850       | 2510        | 15.95               | 17.00               | 1.274                  | -            | -                         | 0.01             | 0.957                  | 1.219                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 21350       | 2560        | 15.94               | 17.00               | 1.276                  | -            | -                         | -0.06            | 0.922                  | 1.177                  |
|                 | LTE Band 7  | 20M      | QPSK       | 100     | 0         | -             | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 21100       | 2535        | 16.06               | 17.00               | 1.242                  | -            | -                         | 0.02             | 0.916                  | 1.137                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 0mm      | Ant 2   | DSI 1       | 21100       | 2535        | 16.10               | 17.00               | 1.230                  | -            | -                         | -0.06            | 0.539                  | 0.663                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 4        | 0mm      | Ant 2   | DSI 1       | 21100       | 2535        | 16.08               | 17.00               | 1.236                  | -            | -                         | 0.01             | 0.485                  | 0.599                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 3        | 0mm      | Ant 2   | DSI 0       | 21100       | 2535        | 23.22               | 24.00               | 1.197                  | -            | -                         | 0.06             | 0.060                  | 0.072                  |
|                 | LTE Band 7  | 20M      | QPSK       | 50      | 0         | -             | Edge 3        | 0mm      | Ant 2   | DSI 0       | 21100       | 2535        | 22.48               | 23.50               | 1.265                  | -            | -                         | -0.01            | 0.049                  | 0.062                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 17mm     | Ant 2   | DSI 0       | 21100       | 2535        | 23.22               | 24.00               | 1.197                  | -            | -                         | -0.01            | 0.338                  | 0.404                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 17mm     | Ant 2   | DSI 0       | 21100       | 2535        | 23.22               | 24.00               | 1.197                  | -            | -                         | -0.06            | 0.342                  | 0.409                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Bottom Face   | 16mm     | Ant 2   | DSI 1       | 21100       | 2535        | 16.10               | 17.00               | 1.230                  | -            | -                         | -0.01            | 0.236                  | 0.290                  |
|                 | LTE Band 7  | 20M      | QPSK       | 1       | 0         | -             | Edge 4        | 13mm     | Ant 2   | DSI 1       | 21100       | 2535        | 16.10               | 17.00               | 1.230                  | -            | -                         | -0.06            | 0.132                  | 0.162                  |
|                 | FR1 n7      | 50M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.26               | 14.00               | 1.186                  | -            | -                         | 0.02             | 0.477                  | 0.566                  |
|                 | FR1 n7      | 50M      | QPSK       | 135     | 68        | DFT-SCS-15KHz | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.15               | 14.00               | 1.216                  | -            | -                         | 0.02             | 0.450                  | 0.547                  |
|                 | FR1 n7      | 50M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 1        | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.26               | 14.00               | 1.186                  | -            | -                         | -0.06            | 0.131                  | 0.155                  |
|                 | FR1 n7      | 50M      | QPSK       | 135     | 68        | DFT-SCS-15KHz | Edge 1        | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.15               | 14.00               | 1.216                  | -            | -                         | -0.01            | 0.118                  | 0.144                  |
|                 | FR1 n7      | 50M      | QPSK       | 1       | 1         | DFT-SCS-15KHz | Edge 4        | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.26               | 14.00               | 1.186                  | -            | -                         | 0.01             | 0.948                  | 1.124                  |
| 18              | FR1 n7      | 50M      | QPSK       | 135     | 68        | DFT-SCS-15KHz | Edge 4        | 0mm      | Ant 0   | DSI 1       | 507000      | 2535        | 13.15               | 14.00               | 1.216                  | -            | -                         | -0.02            | 1.030                  | 1.253                  |



|    |              |     |      |     |    |               |             |      |       |       |                 |                   |       |       |       |      |       |       |       |       |
|----|--------------|-----|------|-----|----|---------------|-------------|------|-------|-------|-----------------|-------------------|-------|-------|-------|------|-------|-------|-------|-------|
|    | FR1 n7       | 50M | QPSK | 270 | 0  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 1 | 507000          | 2535              | 13.08 | 14.00 | 1.236 | -    | -     | 0.01  | 0.983 | 1.215 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 0 | DSI 3 | 507000          | 2535              | 10.25 | 11.40 | 1.303 | -    | -     | 0.01  | 0.513 | 0.669 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 18mm | Ant 0 | DSI 0 | 507000          | 2535              | 23.47 | 24.00 | 1.130 | -    | -     | 0.02  | 0.517 | 0.584 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 4      | 20mm | Ant 0 | DSI 0 | 507000          | 2535              | 23.36 | 24.00 | 1.159 | -    | -     | 0.01  | 0.770 | 0.892 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 507000          | 2535              | 23.47 | 24.00 | 1.130 | -    | -     | 0.03  | 1.030 | 1.164 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 507000          | 2535              | 23.36 | 24.00 | 1.159 | -    | -     | 0.06  | 1.000 | 1.159 |
|    | FR1 n7       | 50M | QPSK | 270 | 0  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 0 | 507000          | 2535              | 22.45 | 23.00 | 1.135 | -    | -     | 0.01  | 0.860 | 0.976 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 2mm  | Ant 0 | DSI 2 | 507000          | 2535              | 20.88 | 21.40 | 1.127 | -    | -     | 0.09  | 0.495 | 0.558 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 0 | DSI 1 | 507000          | 2535              | 13.26 | 14.00 | 1.186 | -    | -     | 0.02  | 0.247 | 0.293 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 0 | DSI 1 | 507000          | 2535              | 13.26 | 14.00 | 1.186 | -    | -     | 0.02  | 0.232 | 0.275 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 0 | DSI 1 | 507000          | 2535              | 13.15 | 14.00 | 1.216 | -    | -     | 0.01  | 0.416 | 0.506 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 1      | 10mm | Ant 0 | DSI 0 | 507000          | 2535              | 23.47 | 24.00 | 1.130 | -    | -     | 0.03  | 0.446 | 0.504 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.74 | 16.70 | 1.247 | -    | -     | 0.07  | 0.882 | 1.100 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.62 | 16.70 | 1.282 | -    | -     | 0.02  | 0.838 | 1.075 |
|    | FR1 n7       | 50M | QPSK | 270 | 0  | DFT-SCS-15KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.59 | 16.70 | 1.291 | -    | -     | -0.06 | 0.793 | 1.024 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.74 | 16.70 | 1.247 | -    | -     | 0.02  | 0.675 | 0.842 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.62 | 16.70 | 1.282 | -    | -     | 0.01  | 0.649 | 0.832 |
|    | FR1 n7       | 50M | QPSK | 270 | 0  | DFT-SCS-15KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 507000          | 2535              | 15.59 | 16.70 | 1.291 | -    | -     | 0.06  | 0.623 | 0.804 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 507000          | 2535              | 23.02 | 24.00 | 1.253 | -    | -     | -0.06 | 0.047 | 0.059 |
|    | FR1 n7       | 50M | QPSK | 135 | 68 | DFT-SCS-15KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 507000          | 2535              | 22.93 | 24.00 | 1.279 | -    | -     | -0.06 | 0.056 | 0.072 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 507000          | 2535              | 23.02 | 24.00 | 1.253 | -    | -     | -0.06 | 0.403 | 0.505 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 507000          | 2535              | 23.02 | 24.00 | 1.253 | -    | -     | -0.06 | 0.409 | 0.513 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Bottom Face | 16mm | Ant 2 | DSI 1 | 507000          | 2535              | 15.74 | 16.70 | 1.247 | -    | -     | -0.06 | 0.287 | 0.358 |
|    | FR1 n7       | 50M | QPSK | 1   | 1  | DFT-SCS-15KHz | Edge 4      | 13mm | Ant 2 | DSI 1 | 507000          | 2535              | 15.74 | 16.70 | 1.247 | -    | -     | -0.06 | 0.233 | 0.291 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | 0.02  | 0.447 | 0.567 |
|    | LTE Band 38  | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.15 | 16.30 | 1.303 | 62.9 | 1.006 | 0.13  | 0.361 | 0.473 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | 0.02  | 0.091 | 0.116 |
|    | LTE Band 38  | 20M | QPSK | 50  | 0  | -             | Edge 1      | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.15 | 16.30 | 1.303 | 62.9 | 1.006 | 0.03  | 0.072 | 0.094 |
| 19 | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | -0.03 | 0.976 | 1.239 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 37850           | 2580              | 15.15 | 16.30 | 1.303 | 62.9 | 1.006 | 0.07  | 0.932 | 1.222 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 38150           | 2610              | 15.14 | 16.30 | 1.306 | 62.9 | 1.006 | 0.08  | 0.926 | 1.217 |
|    | LTE Band 38  | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.15 | 16.30 | 1.303 | 62.9 | 1.006 | -0.09 | 0.904 | 1.185 |
|    | LTE Band 38  | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 37850           | 2580              | 15.01 | 16.30 | 1.346 | 62.9 | 1.006 | -0.05 | 0.895 | 1.212 |
|    | LTE Band 38  | 20M | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 38150           | 2610              | 15.13 | 16.30 | 1.309 | 62.9 | 1.006 | -0.09 | 0.876 | 1.154 |
|    | LTE Band 38  | 20M | QPSK | 100 | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 1 | 38000           | 2595              | 15.12 | 16.30 | 1.312 | 62.9 | 1.006 | 0.15  | 0.889 | 1.174 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 0 | DSI 3 | 38000           | 2595              | 12.86 | 13.70 | 1.213 | 62.9 | 1.006 | 0.01  | 0.475 | 0.580 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 18mm | Ant 0 | DSI 0 | 38000           | 2595              | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | 0.03  | 0.249 | 0.286 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 20mm | Ant 0 | DSI 0 | 38000           | 2595              | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | -0.05 | 0.346 | 0.398 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 2mm  | Ant 0 | DSI 0 | 38000           | 2595              | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | -0.01 | 0.461 | 0.530 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | 0.03  | 0.186 | 0.236 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | 0.03  | 0.159 | 0.202 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 0 | DSI 1 | 38000           | 2595              | 15.29 | 16.30 | 1.262 | 62.9 | 1.006 | -0.05 | 0.326 | 0.414 |
|    | LTE Band 38  | 20M | QPSK | 1   | 0  | -             | Edge 1      | 10mm | Ant 0 | DSI 0 | 38000           | 2595              | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | -0.01 | 0.112 | 0.129 |
|    | LTE Band 41  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40620           | 2593              | 18.75 | 19.80 | 1.274 | 62.9 | 1.006 | 0.03  | 0.932 | 1.194 |
| 20 | LTE Band 41  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 39750           | 2506              | 18.61 | 19.80 | 1.315 | 62.9 | 1.006 | 0.06  | 0.950 | 1.257 |
|    | LTE Band 41C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 39750+<br>39948 | 2506+<br>2525.8   | 18.55 | 19.80 | 1.334 | 62.9 | 1.006 | 0.01  | 0.930 | 1.248 |
|    | LTE Band 41C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40185+<br>40383 | 2549.5+<br>2569.3 | 18.42 | 19.80 | 1.374 | 62.9 | 1.006 | -0.09 | 0.873 | 1.207 |
|    | LTE Band 41C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40620+<br>40818 | 2593+<br>2612.8   | 18.61 | 19.80 | 1.315 | 62.9 | 1.006 | 0.01  | 0.842 | 1.114 |
|    | LTE Band 41C | 20M | QPSK | 1   | 99 | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41055+<br>41253 | 2636.5+<br>2656.3 | 18.47 | 19.80 | 1.358 | 62.9 | 1.006 | 0.07  | 0.911 | 1.245 |
|    | LTE Band 41C | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41490+<br>41292 | 2680+<br>2660.2   | 18.39 | 19.80 | 1.384 | 62.9 | 1.006 | -0.04 | 0.855 | 1.190 |
|    | LTE Band 41  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40185           | 2549.5            | 18.58 | 19.80 | 1.324 | 62.9 | 1.006 | 0.03  | 0.920 | 1.226 |
|    | LTE Band 41  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41055           | 2636.5            | 18.57 | 19.80 | 1.327 | 62.9 | 1.006 | -0.05 | 0.926 | 1.237 |
|    | LTE Band 41  | 20M | QPSK | 1   | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41490           | 2680              | 18.51 | 19.80 | 1.346 | 62.9 | 1.006 | 0.05  | 0.922 | 1.248 |
|    | LTE Band 41  | 20M | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40620           | 2593              | 18.72 | 19.80 | 1.282 | 62.9 | 1.006 | 0.05  | 0.905 | 1.167 |



# FCC SAR Test Report

Report No. : FA230408

|    |              |      |      |     |    |               |             |      |       |       |        |         |       |       |       |      |       |       |       |       |
|----|--------------|------|------|-----|----|---------------|-------------|------|-------|-------|--------|---------|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 39750  | 2506    | 18.55 | 19.80 | 1.334 | 62.9 | 1.006 | -0.09 | 0.914 | 1.226 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40185  | 2549.5  | 18.58 | 19.80 | 1.324 | 62.9 | 1.006 | -0.15 | 0.893 | 1.190 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41055  | 2636.5  | 18.68 | 19.80 | 1.294 | 62.9 | 1.006 | 0.01  | 0.883 | 1.150 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 41490  | 2680    | 18.66 | 19.80 | 1.300 | 62.9 | 1.006 | 0.07  | 0.861 | 1.126 |
|    | LTE Band 41  | 20M  | QPSK | 100 | 0  | -             | Bottom Face | 0mm  | Ant 2 | DSI 1 | 40620  | 2593    | 18.68 | 19.80 | 1.294 | 62.9 | 1.006 | -0.18 | 0.898 | 1.169 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 40620  | 2593    | 18.75 | 19.80 | 1.274 | 62.9 | 1.006 | -0.04 | 0.662 | 0.848 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 39750  | 2506    | 18.61 | 19.80 | 1.315 | 62.9 | 1.006 | 0.1   | 0.650 | 0.860 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 40185  | 2549.5  | 18.58 | 19.80 | 1.324 | 62.9 | 1.006 | -0.18 | 0.659 | 0.878 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 41055  | 2636.5  | 18.57 | 19.80 | 1.327 | 62.9 | 1.006 | 0.06  | 0.643 | 0.859 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 41490  | 2680    | 18.51 | 19.80 | 1.346 | 62.9 | 1.006 | 0.04  | 0.667 | 0.903 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 40620  | 2593    | 18.72 | 19.80 | 1.282 | 62.9 | 1.006 | 0.03  | 0.652 | 0.841 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 39750  | 2506    | 18.55 | 19.80 | 1.334 | 62.9 | 1.006 | 0.05  | 0.622 | 0.834 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 40185  | 2549.5  | 18.58 | 19.80 | 1.324 | 62.9 | 1.006 | 0.11  | 0.652 | 0.869 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 41055  | 2636.5  | 18.68 | 19.80 | 1.294 | 62.9 | 1.006 | -0.11 | 0.626 | 0.815 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 41490  | 2680    | 18.66 | 19.80 | 1.300 | 62.9 | 1.006 | 0.11  | 0.628 | 0.821 |
|    | LTE Band 41  | 20M  | QPSK | 100 | 0  | -             | Edge 4      | 0mm  | Ant 2 | DSI 1 | 40620  | 2593    | 18.68 | 19.80 | 1.294 | 62.9 | 1.006 | -0.01 | 0.650 | 0.846 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 40620  | 2593    | 23.61 | 25.00 | 1.377 | 62.9 | 1.006 | 0.12  | 0.067 | 0.093 |
|    | LTE Band 41  | 20M  | QPSK | 50  | 0  | -             | Edge 3      | 0mm  | Ant 2 | DSI 0 | 40620  | 2593    | 22.65 | 24.00 | 1.365 | 62.9 | 1.006 | -0.11 | 0.056 | 0.077 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Bottom Face | 17mm | Ant 2 | DSI 0 | 39750  | 2506    | 23.54 | 25.00 | 1.400 | 62.9 | 1.006 | -0.08 | 0.391 | 0.551 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 17mm | Ant 2 | DSI 0 | 41490  | 2680    | 23.60 | 25.00 | 1.380 | 62.9 | 1.006 | 0.09  | 0.386 | 0.536 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Edge 4      | 13mm | Ant 2 | DSI 1 | 41490  | 2680    | 18.51 | 19.80 | 1.346 | 62.9 | 1.006 | 0.09  | 0.221 | 0.299 |
|    | LTE Band 41  | 20M  | QPSK | 1   | 0  | -             | Bottom Face | 16mm | Ant 2 | DSI 1 | 39750  | 2506    | 18.61 | 19.80 | 1.315 | 62.9 | 1.006 | -0.08 | 0.312 | 0.413 |
| 21 | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.53 | 17.50 | 1.250 | -    | -     | -0.04 | 1.000 | 1.250 |
|    | FR1 n41 HPUE | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.50 | 17.50 | 1.259 | -    | -     | 0.06  | 0.988 | 1.244 |
|    | FR1 n41 HPUE | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.39 | 17.50 | 1.291 | -    | -     | -0.01 | 0.923 | 1.192 |
|    | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.53 | 17.50 | 1.250 | -    | -     | 0.02  | 0.681 | 0.851 |
|    | FR1 n41 HPUE | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.50 | 17.50 | 1.259 | -    | -     | 0.06  | 0.641 | 0.807 |
|    | FR1 n41 HPUE | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.39 | 17.50 | 1.291 | -    | -     | -0.01 | 0.623 | 0.804 |
|    | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 518598 | 2592.99 | 25.71 | 27.00 | 1.346 | -    | -     | -0.06 | 0.059 | 0.079 |
|    | FR1 n41 HPUE | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 2 | DSI 0 | 518598 | 2592.99 | 25.64 | 27.00 | 1.368 | -    | -     | -0.06 | 0.049 | 0.067 |
|    | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 17mm | Ant 2 | DSI 0 | 518598 | 2592.99 | 25.71 | 27.00 | 1.346 | -    | -     | -0.06 | 0.694 | 0.934 |
|    | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 518598 | 2592.99 | 25.71 | 27.00 | 1.346 | -    | -     | -0.09 | 0.710 | 0.956 |
|    | FR1 n41 HPUE | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 518598 | 2592.99 | 25.64 | 27.00 | 1.368 | -    | -     | 0.06  | 0.700 | 0.957 |
|    | FR1 n41 HPUE | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 4      | 17mm | Ant 2 | DSI 0 | 518598 | 2592.99 | 24.55 | 26.00 | 1.396 | -    | -     | 0.01  | 0.563 | 0.786 |
|    | FR1 n41 HPUE | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 16mm | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.53 | 17.50 | 1.250 | -    | -     | -0.06 | 0.394 | 0.493 |
|    | FR1 n41 HPUE | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 4      | 13mm | Ant 2 | DSI 1 | 518598 | 2592.99 | 16.39 | 17.50 | 1.291 | -    | -     | 0.01  | 0.311 | 0.402 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 1 | DSI 0 | 518598 | 2592.99 | 9.46  | 10.40 | 1.242 | -    | -     | 0.02  | 0.488 | 0.606 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 1 | DSI 0 | 518598 | 2592.99 | 9.36  | 10.40 | 1.271 | -    | -     | 0.01  | 0.418 | 0.531 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 1 | DSI 0 | 518598 | 2592.99 | 9.46  | 10.40 | 1.242 | -    | -     | 0.11  | 0.929 | 1.153 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 1 | DSI 0 | 518598 | 2592.99 | 9.36  | 10.40 | 1.271 | -    | -     | -0.04 | 0.980 | 1.245 |
|    | FR1 n41      | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 1 | DSI 0 | 518598 | 2592.99 | 9.35  | 10.40 | 1.274 | -    | -     | 0.03  | 0.935 | 1.191 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.88 | 14.60 | 1.180 | -    | -     | 0.11  | 0.947 | 1.118 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.75 | 14.60 | 1.216 | -    | -     | -0.08 | 1.020 | 1.241 |
|    | FR1 n41      | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.74 | 14.60 | 1.219 | -    | -     | -0.01 | 0.999 | 1.218 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.88 | 14.60 | 1.180 | -    | -     | -0.11 | 0.006 | 0.007 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.75 | 14.60 | 1.216 | -    | -     | 0.16  | 0.006 | 0.007 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.88 | 14.60 | 1.180 | -    | -     | -0.09 | 0.700 | 0.826 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.75 | 14.60 | 1.216 | -    | -     | -0.12 | 0.675 | 0.821 |
|    | FR1 n41      | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 518598 | 2592.99 | 13.74 | 14.60 | 1.219 | -    | -     | 0.05  | 0.685 | 0.835 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.04 | 12.90 | 1.219 | -    | -     | 0.01  | 0.985 | 1.201 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.01 | 12.90 | 1.227 | -    | -     | 0.05  | 1.010 | 1.240 |
|    | FR1 n41      | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 11.87 | 12.90 | 1.268 | -    | -     | -0.03 | 0.970 | 1.230 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.04 | 12.90 | 1.219 | -    | -     | 0.01  | 0.081 | 0.099 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.01 | 12.90 | 1.227 | -    | -     | 0.18  | 0.074 | 0.091 |
|    | FR1 n41      | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.04 | 12.90 | 1.219 | -    | -     | -0.13 | 0.013 | 0.016 |
|    | FR1 n41      | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 5 | DSI 0 | 518598 | 2592.99 | 12.01 | 12.90 | 1.227 | -    | -     | -0.14 | 0.009 | 0.011 |



| FR1 n41              | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 5 | DSI 2 | 518598          | 2592.99         | 9.51    | 10.30 | 1.199 | -     | -     | 0.1   | 0.461 | 0.553 |       |
|----------------------|-------------|------|------|----|---------------|---------------|--------|-------|-------|-----------------|-----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>3500~3900 MHZ</b> |             |      |      |    |               |               |        |       |       |                 |                 |         |       |       |       |       |       |       |       |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 55830           | 3609            | 10.79   | 11.50 | 1.178 | 62.9  | 1.006 | 0.07  | 0.472 | 0.559 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 55830           | 3609            | 10.72   | 11.50 | 1.197 | 62.9  | 1.006 | 0.06  | 0.398 | 0.479 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55830           | 3609            | 10.79   | 11.50 | 1.178 | 62.9  | 1.006 | -0.17 | 0.934 | 1.106 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55340           | 3560            | 10.70   | 11.50 | 1.202 | 62.9  | 1.006 | 0.01  | 0.965 | 1.167 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 56150           | 3641            | 10.74   | 11.50 | 1.191 | 62.9  | 1.006 | 0.08  | 0.964 | 1.155 |       |
| 22                   | LTE Band 48 | 20M  | QPSK | 1  | 0             | -             | Edge 4 | 0mm   | Ant 3 | DSI 1           | 56640           | 3690    | 10.76 | 11.50 | 1.186 | 62.9  | 1.006 | 0.02  | 1.050 | 1.253 |
| LTE Band 48C         | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 56640+<br>56442 | 3690+<br>3670.2 | 10.59   | 11.50 | 1.233 | 62.9  | 1.006 | 0.01  | 1.000 | 1.241 |       |
| LTE Band 48C         | 20M         | QPSK | 1    | 99 | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55340+<br>55538 | 3560+<br>3579.8 | 10.53   | 11.50 | 1.250 | 62.9  | 1.006 | -0.09 | 0.909 | 1.143 |       |
| LTE Band 48C         | 20M         | QPSK | 1    | 99 | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55830+<br>56028 | 3609+<br>3628.8 | 10.71   | 11.50 | 1.199 | 62.9  | 1.006 | 0.05  | 0.966 | 1.166 |       |
| LTE Band 48C         | 20M         | QPSK | 1    | 99 | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 56150+<br>56348 | 3641+<br>3660.8 | 10.62   | 11.50 | 1.225 | 62.9  | 1.006 | 0.01  | 0.864 | 1.064 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55830           | 3609            | 10.72   | 11.50 | 1.197 | 62.9  | 1.006 | -0.16 | 0.933 | 1.123 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55340           | 3560            | 10.67   | 11.50 | 1.211 | 62.9  | 1.006 | -0.12 | 0.945 | 1.151 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 56150           | 3641            | 10.68   | 11.50 | 1.208 | 62.9  | 1.006 | 0.03  | 0.917 | 1.114 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 56640           | 3690            | 10.65   | 11.50 | 1.216 | 62.9  | 1.006 | -0.08 | 0.936 | 1.145 |       |
| LTE Band 48          | 20M         | QPSK | 100  | 0  | -             | Edge 4        | 0mm    | Ant 3 | DSI 1 | 55830           | 3609            | 10.64   | 11.50 | 1.219 | 62.9  | 1.006 | 0.1   | 0.945 | 1.159 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 55830           | 3609            | 23.62   | 24.50 | 1.225 | 62.9  | 1.006 | 0.08  | 0.868 | 1.069 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 55340           | 3560            | 23.41   | 24.50 | 1.285 | 62.9  | 1.006 | 0.03  | 0.854 | 1.104 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 56150           | 3641            | 23.57   | 24.50 | 1.239 | 62.9  | 1.006 | 0.01  | 0.862 | 1.074 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 56640           | 3690            | 23.59   | 24.50 | 1.233 | 62.9  | 1.006 | 0.06  | 0.853 | 1.058 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 55830           | 3609            | 22.66   | 23.50 | 1.213 | 62.9  | 1.006 | 0.07  | 0.760 | 0.928 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 55340           | 3560            | 22.42   | 23.50 | 1.282 | 62.9  | 1.006 | 0.03  | 0.731 | 0.943 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 56150           | 3641            | 22.55   | 23.50 | 1.245 | 62.9  | 1.006 | 0.02  | 0.718 | 0.899 |       |
| LTE Band 48          | 20M         | QPSK | 50   | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 56640           | 3690            | 22.49   | 23.50 | 1.262 | 62.9  | 1.006 | -0.01 | 0.744 | 0.944 |       |
| LTE Band 48          | 20M         | QPSK | 100  | 0  | -             | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 55830           | 3609            | 22.60   | 23.50 | 1.230 | 62.9  | 1.006 | 0.02  | 0.748 | 0.926 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 20mm   | Ant 3 | DSI 0 | 56640           | 3690            | 23.59   | 24.50 | 1.233 | 62.9  | 1.006 | 0.03  | 0.771 | 0.956 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 16mm   | Ant 3 | DSI 1 | 55340           | 3560            | 10.70   | 11.50 | 1.202 | 62.9  | 1.006 | 0.08  | 0.142 | 0.172 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Bottom Face   | 17mm   | Ant 3 | DSI 1 | 55340           | 3560            | 10.70   | 11.50 | 1.202 | 62.9  | 1.006 | 0.08  | 0.133 | 0.161 |       |
| LTE Band 48          | 20M         | QPSK | 1    | 0  | -             | Edge 4        | 13mm   | Ant 3 | DSI 1 | 56640           | 3690            | 10.76   | 11.50 | 1.186 | 62.9  | 1.006 | 0.03  | 0.326 | 0.389 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.18    | 10.10 | 1.236 | -     | -     | 0.05  | 0.624 | 0.771 |       |
| FR1 n48              | 40M         | QPSK | 50   | 28 | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.15    | 10.10 | 1.245 | -     | -     | 0.04  | 0.610 | 0.759 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Edge 4        | 0mm    | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.18    | 10.10 | 1.236 | -     | -     | 0.02  | 0.970 | 1.199 |       |
| 23                   | FR1 n48     | 40M  | QPSK | 50 | 28            | DFT-SCS-30KHz | Edge 4 | 0mm   | Ant 3 | DSI 1           | 641666          | 3624.99 | 9.15  | 10.10 | 1.245 | -     | -     | 0.06  | 1.010 | 1.257 |
| FR1 n48              | 40M         | QPSK | 100  | 0  | DFT-SCS-30KHz | Edge 4        | 0mm    | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.13    | 10.10 | 1.250 | -     | -     | 0.13  | 0.981 | 1.227 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 641666          | 3624.99         | 21.36   | 22.30 | 1.242 | -     | -     | 0.04  | 0.870 | 1.080 |       |
| FR1 n48              | 40M         | QPSK | 50   | 28 | DFT-SCS-30KHz | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 641666          | 3624.99         | 21.20   | 22.30 | 1.288 | -     | -     | 0.09  | 0.810 | 1.043 |       |
| FR1 n48              | 40M         | QPSK | 100  | 0  | DFT-SCS-30KHz | Bottom Face   | 18mm   | Ant 3 | DSI 0 | 641666          | 3624.99         | 21.17   | 22.30 | 1.297 | -     | -     | 0.06  | 0.800 | 1.038 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Edge 4        | 20mm   | Ant 3 | DSI 0 | 641666          | 3624.99         | 21.36   | 22.30 | 1.242 | -     | -     | 0.03  | 0.890 | 1.105 |       |
| FR1 n48              | 40M         | QPSK | 50   | 28 | DFT-SCS-30KHz | Edge 4        | 20mm   | Ant 3 | DSI 0 | 641666          | 3624.99         | 21.20   | 22.30 | 1.288 | -     | -     | 0.01  | 0.906 | 1.167 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 16mm   | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.18    | 10.10 | 1.236 | -     | -     | 0.04  | 0.173 | 0.214 |       |
| FR1 n48              | 40M         | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 17mm   | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.18    | 10.10 | 1.236 | -     | -     | 0.04  | 0.162 | 0.200 |       |
| FR1 n48              | 40M         | QPSK | 50   | 28 | DFT-SCS-30KHz | Edge 4        | 13mm   | Ant 3 | DSI 1 | 641666          | 3624.99         | 9.15    | 10.10 | 1.245 | -     | -     | 0.01  | 0.335 | 0.417 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 1 | DSI 0 | 656000          | 3840            | 10.91   | 11.60 | 1.172 | -     | -     | 0.11  | 0.496 | 0.581 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 1 | DSI 0 | 656000          | 3840            | 10.84   | 11.60 | 1.191 | -     | -     | 0.02  | 0.453 | 0.540 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 1    | 1  | DFT-SCS-30KHz | Edge 2        | 0mm    | Ant 1 | DSI 0 | 656000          | 3840            | 10.91   | 11.60 | 1.172 | -     | -     | 0.05  | 1.060 | 1.243 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Edge 2        | 0mm    | Ant 1 | DSI 0 | 656000          | 3840            | 10.84   | 11.60 | 1.191 | -     | -     | 0.05  | 0.992 | 1.182 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 270  | 0  | DFT-SCS-30KHz | Edge 2        | 0mm    | Ant 1 | DSI 0 | 656000          | 3840            | 10.79   | 11.60 | 1.205 | -     | -     | 0.01  | 0.984 | 1.186 |       |
| FR1 n77 Part27Q      | 100M        | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 1 | DSI 0 | 633334          | 3500.01         | 11.04   | 11.60 | 1.138 | -     | -     | 0.13  | 0.216 | 0.246 |       |
| FR1 n77 Part27Q      | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 1 | DSI 0 | 633334          | 3500.01         | 10.98   | 11.60 | 1.153 | -     | -     | 0.05  | 0.253 | 0.292 |       |
| FR1 n77 Part27Q      | 100M        | QPSK | 1    | 1  | DFT-SCS-30KHz | Edge 2        | 0mm    | Ant 1 | DSI 0 | 633334          | 3500.01         | 11.04   | 11.60 | 1.138 | -     | -     | 0.01  | 0.570 | 0.648 |       |
| FR1 n77 Part27Q      | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Edge 2        | 0mm    | Ant 1 | DSI 0 | 633334          | 3500.01         | 10.98   | 11.60 | 1.153 | -     | -     | -0.01 | 0.586 | 0.676 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 1    | 1  | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 656000          | 3840            | 8.13    | 9.00  | 1.222 | -     | -     | -0.16 | 0.685 | 0.837 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 135  | 69 | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 656000          | 3840            | 8.05    | 9.00  | 1.245 | -     | -     | 0.14  | 0.659 | 0.820 |       |
| FR1 n77 Part27O      | 100M        | QPSK | 270  | 0  | DFT-SCS-30KHz | Bottom Face   | 0mm    | Ant 3 | DSI 1 | 656000          | 3840            | 7.99    | 9.00  | 1.262 | -     | -     | 0.11  | 0.649 | 0.819 |       |





|    |                 |      |      |     |    |               |             |      |       |       |        |         |              |              |              |   |   |       |       |              |
|----|-----------------|------|------|-----|----|---------------|-------------|------|-------|-------|--------|---------|--------------|--------------|--------------|---|---|-------|-------|--------------|
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 3 | DSI 1 | 656000 | 3840    | 8.13         | 9.00         | 1.222        | - | - | 0.04  | 1.020 | 1.246        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 3 | DSI 1 | 656000 | 3840    | 8.05         | 9.00         | 1.245        | - | - | 0.03  | 0.992 | 1.235        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 3 | DSI 1 | 656000 | 3840    | 7.99         | 9.00         | 1.262        | - | - | -0.06 | 0.984 | 1.242        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 0mm  | Ant 3 | DSI 0 | 656000 | 3840    | 20.82        | 22.10        | 1.343        | - | - | -0.08 | 0.007 | 0.009        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 1      | 0mm  | Ant 3 | DSI 0 | 656000 | 3840    | 20.74        | 22.10        | 1.368        | - | - | 0.1   | 0.006 | 0.008        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 656000 | 3840    | 20.82        | 22.10        | 1.343        | - | - | 0.17  | 0.817 | 1.097        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 656000 | 3840    | 20.74        | 22.10        | 1.368        | - | - | 0.03  | 0.806 | 1.102        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 656000 | 3840    | 20.72        | 22.10        | 1.374        | - | - | 0.08  | 0.789 | 1.084        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 20mm | Ant 3 | DSI 0 | 656000 | 3840    | 20.82        | 22.10        | 1.343        | - | - | 0.11  | 0.918 | 1.233        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 2mm  | Ant 3 | DSI 0 | 656000 | 3840    | 20.82        | 22.10        | 1.343        | - | - | 0.06  | 0.004 | 0.005        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 16mm | Ant 3 | DSI 1 | 656000 | 3840    | 8.13         | 9.00         | 1.222        | - | - | 0.17  | 0.241 | 0.294        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 17mm | Ant 3 | DSI 1 | 656000 | 3840    | 8.13         | 9.00         | 1.222        | - | - | 0.17  | 0.219 | 0.268        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 13mm | Ant 3 | DSI 1 | 656000 | 3840    | 8.13         | 9.00         | 1.222        | - | - | 0.11  | 0.336 | 0.411        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 10mm | Ant 3 | DSI 0 | 656000 | 3840    | 20.82        | 22.10        | 1.343        | - | - | 0.06  | 0.001 | 0.001        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.46         | 9.00         | 1.132        | - | - | 0.07  | 0.190 | 0.215        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.44         | 9.00         | 1.138        | - | - | 0.08  | 0.176 | 0.200        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.46         | 9.00         | 1.132        | - | - | 0.1   | 0.281 | 0.318        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.44         | 9.00         | 1.138        | - | - | 0.02  | 0.271 | 0.308        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 0mm  | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.88        | 22.10        | 1.324        | - | - | 0.12  | 0.002 | 0.003        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 1      | 0mm  | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.76        | 22.10        | 1.361        | - | - | 0.06  | 0.002 | 0.003        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.88        | 22.10        | 1.324        | - | - | -0.16 | 0.704 | 0.932        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.76        | 22.10        | 1.361        | - | - | 0.03  | 0.689 | 0.938        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 18mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.81        | 22.10        | 1.346        | - | - | 0.04  | 0.690 | 0.929        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 20mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.88        | 22.10        | 1.324        | - | - | 0.08  | 0.771 | 1.021        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 20mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.76        | 22.10        | 1.361        | - | - | 0.09  | 0.742 | 1.010        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 4      | 20mm | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.81        | 22.10        | 1.346        | - | - | 0.01  | 0.749 | 1.008        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 2mm  | Ant 3 | DSI 0 | 633334 | 3500.01 | 20.88        | 22.10        | 1.324        | - | - | 0.03  | 0.001 | 0.001        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 16mm | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.46         | 9.00         | 1.132        | - | - | -0.16 | 0.042 | 0.048        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 17mm | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.46         | 9.00         | 1.132        | - | - | -0.16 | 0.035 | 0.040        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 13mm | Ant 3 | DSI 1 | 633334 | 3500.01 | 8.46         | 9.00         | 1.132        | - | - | 0.08  | 0.112 | 0.127        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 1      | 10mm | Ant 3 | DSI 0 | 633334 | 3500.01 | <b>20.88</b> | <b>22.10</b> | <b>1.324</b> | - | - | 0.03  | 0.001 | 0.001        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.49        | 12.70        | 1.321        | - | - | -0.03 | 0.916 | 1.210        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.45        | 12.70        | 1.334        | - | - | 0.18  | 0.918 | 1.224        |
| 24 | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.43        | 12.70        | 1.340        | - | - | -0.03 | 0.934 | <b>1.251</b> |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.49        | 12.70        | 1.321        | - | - | 0.09  | 0.050 | 0.066        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.45        | 12.70        | 1.334        | - | - | 0.03  | 0.047 | 0.063        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.49        | 12.70        | 1.321        | - | - | -0.18 | 0.594 | 0.785        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 656000 | 3840    | 11.45        | 12.70        | 1.334        | - | - | -0.15 | 0.578 | 0.771        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.18        | 12.70        | 1.419        | - | - | 0.08  | 0.574 | 0.815        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.09        | 12.70        | 1.449        | - | - | 0.09  | 0.561 | 0.813        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.06        | 12.70        | 1.459        | - | - | 0.1   | 0.555 | 0.810        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.18        | 12.70        | 1.419        | - | - | 0.02  | 0.020 | 0.028        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 2      | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.09        | 12.70        | 1.449        | - | - | -0.03 | 0.016 | 0.023        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.18        | 12.70        | 1.419        | - | - | 0.12  | 0.538 | 0.763        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 4 | DSI 0 | 633334 | 3500.01 | 11.09        | 12.70        | 1.449        | - | - | 0.06  | 0.518 | 0.750        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.95        | 14.10        | 1.303        | - | - | 0.1   | 0.461 | 0.601        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.90        | 14.10        | 1.318        | - | - | 0.02  | 0.450 | 0.593        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.95        | 14.10        | 1.303        | - | - | 0.12  | 0.204 | 0.266        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.90        | 14.10        | 1.318        | - | - | 0.06  | 0.205 | 0.270        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.95        | 14.10        | 1.303        | - | - | 0.09  | 0.012 | 0.016        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm  | Ant 5 | DSI 0 | 656000 | 3840    | 12.90        | 14.10        | 1.318        | - | - | -0.03 | 0.011 | 0.015        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 2 | 656000 | 3840    | 8.10         | 9.00         | 1.230        | - | - | 0.01  | 0.231 | 0.284        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.24        | 14.10        | 1.219        | - | - | 0.08  | 1.020 | 1.243        |
|    | FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.08        | 14.10        | 1.265        | - | - | -0.03 | 0.954 | 1.207        |
|    | FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Bottom Face | 0mm  | Ant 5 | DSI 0 | 633334 | 3500.01 | 12.93        | 14.10        | 1.309        | - | - | 0.09  | 0.923 | 1.208        |
|    | FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 3      | 0mm  | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.24        | 14.10        | 1.219        | - | - | 0.03  | 0.965 | 1.176        |



# FCC SAR Test Report

Report No. : FA230408

|                 |      |      |     |    |               |             |     |       |       |        |         |       |       |       |   |   |      |       |       |
|-----------------|------|------|-----|----|---------------|-------------|-----|-------|-------|--------|---------|-------|-------|-------|---|---|------|-------|-------|
| FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 3      | 0mm | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.08 | 14.10 | 1.265 | - | - | 0.02 | 0.934 | 1.181 |
| FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 3      | 0mm | Ant 5 | DSI 0 | 633334 | 3500.01 | 12.93 | 14.10 | 1.309 | - | - | 0.09 | 0.905 | 1.185 |
| FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Edge 4      | 0mm | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.24 | 14.10 | 1.219 | - | - | 0.12 | 0.005 | 0.006 |
| FR1 n77 Part27Q | 100M | QPSK | 135 | 69 | DFT-SCS-30KHz | Edge 4      | 0mm | Ant 5 | DSI 0 | 633334 | 3500.01 | 13.08 | 14.10 | 1.265 | - | - | 0.01 | 0.006 | 0.008 |
| FR1 n77 Part27Q | 100M | QPSK | 1   | 1  | DFT-SCS-30KHz | Bottom Face | 0mm | Ant 5 | DSI 2 | 633334 | 3500.01 | 8.16  | 9.00  | 1.213 | - | - | 0.08 | 0.235 | 0.285 |
| FR1 n77 Part27Q | 100M | QPSK | 270 | 0  | DFT-SCS-30KHz | Edge 3      | 0mm | Ant 5 | DSI 2 | 633334 | 3500.01 | 8.05  | 9.00  | 1.245 | - | - | 0.09 | 0.275 | 0.342 |

| Plot No.       | Band       | Mode                | Test Position | Gap (mm) | Antenna | Power Reduction        | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------------|------------|---------------------|---------------|----------|---------|------------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| <b>WLAN/BT</b> |            |                     |               |          |         |                        |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| 25             | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on              | 6   | 2437        | 19.35               | 20.00               | 1.161                  | 99.31        | 1.007                     | -0.06            | 1.060                  | <b>1.240</b>           |
|                | WLAN2.4GHz | 802.11g 6Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on              | 6   | 2437        | 19.17               | 20.00               | 1.211                  | 95.34        | 1.049                     | 0.02             | 0.918                  | 1.166                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on              | 1   | 2412        | 18.96               | 20.00               | 1.271                  | 99.31        | 1.007                     | 0.09             | 0.967                  | 1.237                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on              | 11  | 2462        | 18.01               | 19.50               | 1.409                  | 99.31        | 1.007                     | 0.06             | 0.845                  | 1.199                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 0mm      | Ant 6   | Sensor on              | 6   | 2437        | 19.35               | 20.00               | 1.161                  | 99.31        | 1.007                     | 0.12             | 0.648                  | 0.758                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on Simultaneous | 6   | 2437        | 16.29               | 17.50               | 1.321                  | 99.31        | 1.007                     | 0.01             | 0.501                  | 0.667                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 3        | 0mm      | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | 0.02             | 0.506                  | 0.707                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 17mm     | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | -0.03            | 0.241                  | 0.337                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 13mm     | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | 0.08             | 0.399                  | 0.557                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 16mm     | Ant 6   | Sensor on              | 6   | 2437        | 16.29               | 17.50               | 1.321                  | 99.31        | 1.007                     | 0.01             | 0.226                  | 0.301                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 18mm     | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | 0.08             | 0.173                  | 0.242                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 17mm     | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | 0.06             | 0.159                  | 0.222                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 20mm     | Ant 6   | Sensor off             | 6   | 2437        | 20.58               | 22.00               | 1.387                  | 99.31        | 1.007                     | -0.03            | 0.091                  | 0.127                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 7   | Sensor on              | 1   | 2412        | 19.04               | 20.00               | 1.247                  | 99.31        | 1.007                     | -0.06            | 0.844                  | 1.060                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 7   | Sensor on              | 6   | 2437        | 18.42               | 20.00               | 1.439                  | 99.31        | 1.007                     | 0.01             | 0.851                  | 1.233                  |
|                | WLAN2.4GHz | 802.11g 6Mbps       | Bottom Face   | 0mm      | Ant 7   | Sensor on              | 6   | 2437        | 19.28               | 20.00               | 1.180                  | 95.3         | 1.049                     | 0.01             | 0.890                  | 1.102                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 7   | Sensor on              | 11  | 2462        | 18.24               | 19.50               | 1.337                  | 99.31        | 1.007                     | 0.03             | 0.830                  | 1.117                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 1        | 0mm      | Ant 7   | Sensor on              | 1   | 2412        | 19.04               | 20.00               | 1.247                  | 99.31        | 1.007                     | -0.02            | 0.265                  | 0.333                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 7   | Sensor on Simultaneous | 6   | 2437        | 15.45               | 17.00               | 1.429                  | 99.31        | 1.007                     | -0.06            | 0.424                  | 0.610                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 0mm      | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.09             | 0.201                  | 0.282                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 16mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.06             | 0.462                  | 0.648                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 1        | 10mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | -0.14            | 0.438                  | 0.614                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 17mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.03             | 0.088                  | 0.123                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Bottom Face   | 18mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.02             | 0.071                  | 0.100                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 13mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.09             | 0.085                  | 0.119                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 17mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | 0.12             | 0.042                  | 0.059                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 4        | 20mm     | Ant 7   | Sensor off             | 1   | 2412        | 21.06               | 22.50               | 1.393                  | 99.31        | 1.007                     | -0.02            | 0.016                  | 0.022                  |
|                | WLAN2.4GHz | 802.11b 1Mbps       | Edge 1        | 2mm      | Ant 7   | Sensor on              | 6   | 2437        | 15.45               | 17.00               | 1.429                  | 99.31        | 1.007                     | 0.03             | 0.245                  | 0.353                  |
| 26             | Bluetooth  | BLE 1Mbps           | Bottom Face   | 0mm      | Ant 6   | Sensor off             | 19  | 2440        | 5.84                | 7.00                | 1.306                  | 60.65        | 1.373                     | -0.02            | 0.004                  | <b>0.007</b>           |
|                | Bluetooth  | BLE 1Mbps           | Edge 4        | 0mm      | Ant 6   | Sensor off             | 19  | 2440        | 5.84                | 7.00                | 1.306                  | 60.65        | 1.373                     | -0.06            | 0.001                  | 0.002                  |
|                | Bluetooth  | BLE 1Mbps           | Edge 2        | 0mm      | Ant 6   | Sensor off             | 19  | 2440        | 5.84                | 7.00                | 1.306                  | 60.65        | 1.373                     | 0.09             | 0.002                  | 0.004                  |
|                | Bluetooth  | BLE 1Mbps           | Edge 1        | 0mm      | Ant 6   | Sensor off             | 19  | 2440        | 5.84                | 7.00                | 1.306                  | 60.65        | 1.373                     | 0.09             | 0.001                  | 0.002                  |
|                | Bluetooth  | BLE 1Mbps           | Edge 3        | 0mm      | Ant 6   | Sensor off             | 19  | 2440        | 5.84                | 7.00                | 1.306                  | 60.65        | 1.373                     | 0.12             | 0.001                  | 0.002                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Bottom Face   | 0mm      | Ant 6   | Sensor on              | 58  | 5290        | 12.57               | 13.50               | 1.239                  | 91.71        | 1.090                     | 0.01             | 0.691                  | 0.933                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 4        | 0mm      | Ant 6   | Sensor on              | 58  | 5290        | 12.57               | 13.50               | 1.239                  | 91.71        | 1.090                     | -0.09            | 1.000                  | 1.350                  |
|                | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4        | 0mm      | Ant 6   | Sensor on              | 54  | 5270        | 12.46               | 13.50               | 1.271                  | 86.74        | 1.153                     | 0.01             | 0.803                  | 1.176                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 4        | 0mm      | Ant 6   | Sensor on              | 58  | 5310        | 12.57               | 13.50               | 1.239                  | 91.71        | 1.090                     | 0.08             | 0.546                  | 0.737                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 4        | 0mm      | Ant 6   | Sensor on Simultaneous | 58  | 5290        | 9.59                | 10.50               | 1.233                  | 91.71        | 1.090                     | 0.01             | 0.497                  | 0.668                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Bottom Face   | 0mm      | Ant 6   | Sensor on Simultaneous | 58  | 5290        | 9.59                | 10.50               | 1.233                  | 91.71        | 1.090                     | 0.06             | 0.452                  | 0.608                  |
|                | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 3        | 0mm      | Ant 6   | Sensor off             | 54  | 5270        | 18.88               | 20.50               | 1.453                  | 86.74        | 1.153                     | 0.06             | 0.148                  | 0.248                  |
|                | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face   | 17mm     | Ant 6   | Sensor off             | 54  | 5270        | 18.88               | 20.50               | 1.453                  | 86.74        | 1.153                     | 0.1              | 0.072                  | 0.121                  |
|                | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4        | 13mm     | Ant 6   | Sensor off             | 54  | 5270        | 18.88               | 20.50               | 1.453                  | 86.74        | 1.153                     | 0.02             | 0.128                  | 0.214                  |
|                | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Bottom Face   | 16mm     | Ant 6   | Sensor on              | 58  | 5290        | 9.59                | 10.50               | 1.233                  | 91.71        | 1.090                     | 0.03             | 0.123                  | 0.165                  |



|    |            |                     |             |      |       |                         |     |      |       |       |       |       |       |       |       |       |
|----|------------|---------------------|-------------|------|-------|-------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face | 18mm | Ant 6 | Sensor off              | 54  | 5270 | 18.88 | 20.50 | 1.453 | 86.74 | 1.153 | 0.09  | 0.066 | 0.111 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 17mm | Ant 6 | Sensor off              | 54  | 5270 | 18.88 | 20.50 | 1.453 | 86.74 | 1.153 | 0.09  | 0.100 | 0.168 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 20mm | Ant 6 | Sensor off              | 54  | 5270 | 18.88 | 20.50 | 1.453 | 86.74 | 1.153 | 0.12  | 0.092 | 0.154 |
| 28 | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on               | 58  | 5290 | 14.33 | 15.00 | 1.167 | 91.71 | 1.090 | 0.01  | 1.070 | 1.361 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on               | 58  | 5290 | 14.33 | 15.00 | 1.167 | 91.71 | 1.090 | 0.02  | 0.948 | 1.206 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face | 0mm  | Ant 7 | Sensor on               | 54  | 5270 | 14.03 | 15.00 | 1.250 | 86.74 | 1.153 | 0.09  | 0.778 | 1.122 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on Simultaneous  | 58  | 5290 | 12.11 | 13.00 | 1.227 | 91.71 | 1.090 | 0.01  | 0.496 | 0.664 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on Simultaneous  | 58  | 5290 | 12.11 | 13.00 | 1.227 | 91.71 | 1.090 | 0.06  | 0.462 | 0.618 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 0mm  | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.12  | 0.112 | 0.181 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face | 16mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.02  | 0.154 | 0.249 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 1      | 10mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.03  | 0.144 | 0.232 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face | 17mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | -0.13 | 0.146 | 0.236 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Bottom Face | 18mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | -0.02 | 0.138 | 0.223 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 13mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.04  | 0.039 | 0.063 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 17mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.06  | 0.013 | 0.021 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Edge 4      | 20mm | Ant 7 | Sensor off              | 54  | 5270 | 19.04 | 20.50 | 1.400 | 86.74 | 1.153 | 0.02  | 0.006 | 0.010 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 2mm  | Ant 7 | Sensor on               | 58  | 5290 | 12.11 | 13.00 | 1.227 | 91.71 | 1.090 | 0.09  | 0.320 | 0.428 |
| 29 | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on               | 138 | 5690 | 12.74 | 14.00 | 1.337 | 91.71 | 1.090 | 0.05  | 0.880 | 1.282 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on               | 122 | 5610 | 12.62 | 14.00 | 1.374 | 91.71 | 1.090 | 0.03  | 0.845 | 1.266 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on               | 106 | 5530 | 12.55 | 14.00 | 1.396 | 91.71 | 1.090 | 0.04  | 0.812 | 1.236 |
|    | WLAN5.5GHz | 802.11n-HT40 MCS0   | Bottom Face | 0mm  | Ant 6 | Sensor on               | 126 | 5630 | 12.49 | 14.00 | 1.416 | 86.74 | 1.153 | 0.01  | 0.730 | 1.192 |
|    | WLAN5.5GHz | 802.11n-HT40 MCS0   | Bottom Face | 0mm  | Ant 6 | Sensor on               | 102 | 5510 | 12.48 | 14.00 | 1.419 | 86.74 | 1.153 | 0.03  | 0.715 | 1.170 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 6 | Sensor on               | 138 | 5690 | 12.74 | 14.00 | 1.337 | 91.71 | 1.090 | 0.09  | 0.734 | 1.069 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 6 | Sensor on               | 122 | 5610 | 12.62 | 14.00 | 1.374 | 91.71 | 1.090 | 0.03  | 0.712 | 1.066 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on Simultaneous  | 138 | 5690 | 9.78  | 11.00 | 1.324 | 91.71 | 1.090 | 0.01  | 0.417 | 0.602 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 6 | Sensor on Simultaneous  | 138 | 5690 | 9.78  | 11.00 | 1.324 | 91.71 | 1.090 | 0.06  | 0.452 | 0.652 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 3      | 0mm  | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | 0.1   | 0.691 | 1.133 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 3      | 0mm  | Ant 6 | Sensor off              | 122 | 5610 | 17.10 | 18.50 | 1.382 | 91.71 | 1.090 | 0.06  | 0.660 | 0.994 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 17mm | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | 0.02  | 0.048 | 0.079 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 13mm | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | -0.03 | 0.077 | 0.126 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 3      | 0mm  | Ant 6 | Sensor off Simultaneous | 138 | 5690 | 16.25 | 18.00 | 1.496 | 91.71 | 1.090 | 0.01  | 0.389 | 0.634 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 16mm | Ant 6 | Sensor on               | 138 | 5690 | 9.78  | 11.00 | 1.324 | 91.71 | 1.090 | 0.06  | 0.105 | 0.152 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 18mm | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | 0.12  | 0.040 | 0.066 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 17mm | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | 0.03  | 0.050 | 0.082 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 20mm | Ant 6 | Sensor off              | 138 | 5690 | 19.23 | 21.00 | 1.505 | 91.71 | 1.090 | 0.01  | 0.036 | 0.059 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on               | 138 | 5690 | 12.59 | 13.50 | 1.233 | 91.71 | 1.090 | 0.01  | 0.887 | 1.192 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on               | 122 | 5610 | 12.35 | 13.50 | 1.303 | 91.71 | 1.090 | 0.03  | 0.823 | 1.169 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on               | 138 | 5690 | 12.59 | 13.50 | 1.233 | 91.71 | 1.090 | -0.02 | 0.925 | 1.243 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on               | 122 | 5610 | 12.35 | 13.50 | 1.303 | 91.71 | 1.090 | 0.09  | 0.863 | 1.226 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on               | 106 | 5530 | 11.98 | 13.50 | 1.419 | 91.71 | 1.090 | 0.04  | 0.750 | 1.160 |
|    | WLAN5.5GHz | 802.11n-HT40 MCS0   | Edge 1      | 0mm  | Ant 7 | Sensor on               | 102 | 5510 | 12.42 | 13.50 | 1.282 | 86.74 | 1.153 | 0.01  | 0.802 | 1.186 |
|    | WLAN5.5GHz | 802.11n-HT40 MCS0   | Edge 1      | 0mm  | Ant 7 | Sensor on               | 126 | 5630 | 12.35 | 13.50 | 1.303 | 86.74 | 1.153 | 0.03  | 0.795 | 1.195 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on Simultaneous  | 138 | 5690 | 9.56  | 10.50 | 1.242 | 91.71 | 1.090 | 0.01  | 0.467 | 0.632 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on Simultaneous  | 138 | 5690 | 9.56  | 10.50 | 1.242 | 91.71 | 1.090 | 0.03  | 0.470 | 0.636 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.12  | 0.049 | 0.074 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 16mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.03  | 0.141 | 0.212 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 10mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.01  | 0.128 | 0.193 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 17mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.01  | 0.130 | 0.196 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 18mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.12  | 0.118 | 0.178 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 13mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.02  | 0.015 | 0.023 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 17mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | 0.03  | 0.006 | 0.009 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 20mm | Ant 7 | Sensor off              | 138 | 5690 | 19.60 | 21.00 | 1.382 | 91.71 | 1.090 | -0.12 | 0.001 | 0.002 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 2mm  | Ant 7 | Sensor on               | 138 | 5690 | 9.56  | 10.50 | 1.242 | 91.71 | 1.090 | -0.05 | 0.300 | 0.406 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on               | 155 | 5775 | 13.02 | 14.00 | 1.253 | 91.71 | 1.090 | 0.03  | 0.979 | 1.337 |





|    |            |                     |             |      |       |                         |     |      |       |       |       |       |       |       |       |       |
|----|------------|---------------------|-------------|------|-------|-------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 6 | Sensor on               | 155 | 5775 | 13.02 | 14.00 | 1.253 | 91.71 | 1.090 | 0.01  | 0.924 | 1.262 |
|    | WLAN5.8GHz | 802.11n-HT40 MCS0   | Bottom Face | 0mm  | Ant 6 | Sensor on               | 159 | 5795 | 12.95 | 14.00 | 1.274 | 86.74 | 1.153 | 0.02  | 0.810 | 1.189 |
|    | WLAN5.8GHz | 802.11n-HT40 MCS0   | Bottom Face | 0mm  | Ant 6 | Sensor on               | 151 | 5755 | 12.89 | 14.00 | 1.291 | 86.74 | 1.153 | 0.06  | 0.798 | 1.188 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 6 | Sensor on Simultaneous  | 155 | 5775 | 10.05 | 11.00 | 1.245 | 91.71 | 1.090 | 0.01  | 0.479 | 0.650 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 4      | 0mm  | Ant 6 | Sensor on Simultaneous  | 155 | 5775 | 10.05 | 11.00 | 1.245 | 91.71 | 1.090 | 0.03  | 0.460 | 0.624 |
| 30 | WLAN5.8GHz | 802.11a 6Mbps       | Edge 3      | 0mm  | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.06  | 1.220 | 1.394 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Bottom Face | 17mm | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.1   | 0.043 | 0.049 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 13mm | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.02  | 0.122 | 0.139 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 3      | 0mm  | Ant 6 | Sensor off Simultaneous | 155 | 5775 | 19.04 | 20.00 | 1.247 | 91.71 | 1.090 | 0.01  | 0.901 | 1.225 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 16mm | Ant 6 | Sensor on               | 155 | 5775 | 10.05 | 11.00 | 1.245 | 91.71 | 1.090 | 0.05  | 0.156 | 0.212 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Bottom Face | 18mm | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.06  | 0.036 | 0.041 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 17mm | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.03  | 0.086 | 0.098 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 20mm | Ant 6 | Sensor off              | 165 | 5825 | 20.22 | 20.50 | 1.067 | 93.36 | 1.071 | 0.06  | 0.052 | 0.059 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on               | 155 | 5775 | 12.29 | 13.00 | 1.178 | 91.71 | 1.090 | -0.06 | 0.885 | 1.136 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on               | 155 | 5775 | 12.29 | 13.00 | 1.178 | 91.71 | 1.090 | 0.02  | 1.050 | 1.348 |
|    | WLAN5.8GHz | 802.11n-HT40 MCS0   | Edge 1      | 0mm  | Ant 7 | Sensor on               | 151 | 5755 | 12.13 | 13.00 | 1.222 | 86.74 | 1.153 | 0.01  | 0.838 | 1.181 |
|    | WLAN5.8GHz | 802.11n-HT40 MCS0   | Edge 1      | 0mm  | Ant 7 | Sensor on               | 159 | 5795 | 12.09 | 13.00 | 1.233 | 86.74 | 1.153 | 0.09  | 0.823 | 1.170 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 0mm  | Ant 7 | Sensor on Simultaneous  | 155 | 5775 | 9.28  | 10.00 | 1.180 | 91.71 | 1.090 | 0.01  | 0.476 | 0.612 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Bottom Face | 0mm  | Ant 7 | Sensor on Simultaneous  | 155 | 5775 | 9.28  | 10.00 | 1.180 | 91.71 | 1.090 | 0.06  | 0.490 | 0.630 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 0mm  | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.12  | 0.047 | 0.072 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Bottom Face | 16mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.02  | 0.152 | 0.232 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 1      | 10mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.03  | 0.758 | 1.157 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 10mm | Ant 7 | Sensor off Simultaneous | 155 | 5775 | 19.30 | 20.00 | 1.176 | 91.71 | 1.090 | 0.01  | 0.585 | 0.750 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Bottom Face | 17mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.08  | 0.140 | 0.214 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Bottom Face | 18mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.06  | 0.126 | 0.192 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 13mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | -0.03 | 0.016 | 0.024 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 17mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.09  | 0.008 | 0.012 |
|    | WLAN5.8GHz | 802.11a 6Mbps       | Edge 4      | 20mm | Ant 7 | Sensor off              | 149 | 5745 | 20.46 | 22.00 | 1.426 | 93.36 | 1.071 | 0.03  | 0.002 | 0.003 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Edge 1      | 2mm  | Ant 7 | Sensor on               | 155 | 5775 | 9.28  | 10.00 | 1.180 | 91.71 | 1.090 | -0.06 | 0.385 | 0.495 |

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Freq. (MHz) | Power Drift (dB) | Measured 1g SAR (W/kg) |
|----------|------|------|---------------|----------|---------|-------------|------------------|------------------------|
| 27       | NFC  | ASK  | Bottom Face   | 0mm      | Ant 9   | 13.56       | -0.13            | 0.023                  |
|          | NFC  | ASK  | Edge 4        | 0mm      | Ant 9   | 13.56       | -0.02            | 0.000                  |
|          | NFC  | ASK  | Edge 2        | 0mm      | Ant 9   | 13.56       | 0.04             | 0.001                  |
|          | NFC  | ASK  | Edge 1        | 0mm      | Ant 9   | 13.56       | 0.06             | 0.006                  |
|          | NFC  | ASK  | Edge 3        | 0mm      | Ant 9   | 13.56       | 0.04             | 0.000                  |



16.2 Repeated SAR Measurement

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Mode                | Test Position | Gap (mm) | Antenna | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------------|---------------|----------|---------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st      | LTE Band 14     | 10M      | QPSK       | 1       | 0         | -                   | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23330  | 793         | 22.29               | 22.90               | 1.151                  | -            | 1.000                     | 0.04             | 1.070                  | 1     | 1.231                  |
| 2nd      | LTE Band 14     | 10M      | QPSK       | 1       | 0         | -                   | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 23330  | 793         | 22.29               | 22.90               | 1.151                  | -            | 1.000                     | 0.06             | 1.050                  | 1.019 | 1.208                  |
| 1st      | LTE Band 26     | 15M      | QPSK       | 1       | 0         | -                   | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 26865  | 831.5       | 22.47               | 23.20               | 1.183                  | -            | 1.000                     | 0.02             | 1.050                  | 1     | 1.242                  |
| 2nd      | LTE Band 26     | 15M      | QPSK       | 1       | 0         | -                   | Bottom Face   | 0mm      | Ant 0   | DSI 1       | 26865  | 831.5       | 22.47               | 23.20               | 1.183                  | -            | 1.000                     | 0.09             | 1.030                  | 1.019 | 1.219                  |
| 1st      | FR1 n66         | 30M      | QPSK       | 80      | 40        | DFT-SCS-15KHz       | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 349000 | 1745        | 17.41               | 18.10               | 1.172                  | -            | 1.000                     | 0.04             | 1.070                  | 1     | 1.254                  |
| 2nd      | FR1 n66         | 30M      | QPSK       | 80      | 40        | DFT-SCS-15KHz       | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 349000 | 1745        | 17.41               | 18.10               | 1.172                  | -            | 1.000                     | 0.01             | 1.050                  | 1.019 | 1.231                  |
| 1st      | FR1 n25         | 20M      | QPSK       | 50      | 28        | DFT-SCS-15KHz       | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 381000 | 1905        | 14.85               | 15.60               | 1.189                  | -            | 1.000                     | -0.07            | 1.040                  | 1     | 1.236                  |
| 2nd      | FR1 n25         | 20M      | QPSK       | 50      | 28        | DFT-SCS-15KHz       | Bottom Face   | 0mm      | Ant 2   | DSI 1       | 381000 | 1905        | 14.85               | 15.60               | 1.189                  | -            | 1.000                     | 0.03             | 1.010                  | 1.030 | 1.200                  |
| 1st      | LTE Band 7      | 20M      | QPSK       | 1       | 0         | -                   | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21100  | 2535        | 23.39               | 24.00               | 1.151                  | -            | 1.000                     | 0.07             | 1.050                  | 1     | 1.208                  |
| 2nd      | LTE Band 7      | 20M      | QPSK       | 1       | 0         | -                   | Edge 1        | 2mm      | Ant 0   | DSI 0       | 21100  | 2535        | 23.39               | 24.00               | 1.151                  | -            | 1.000                     | 0.07             | 1.030                  | 1.019 | 1.185                  |
| 1st      | LTE Band 48     | 20M      | QPSK       | 1       | 0         | -                   | Edge 4        | 0mm      | Ant 3   | DSI 1       | 56640  | 3690        | 10.76               | 11.50               | 1.186                  | 62.9         | 1.006                     | 0.02             | 1.050                  | 1     | 1.253                  |
| 2nd      | LTE Band 48     | 20M      | QPSK       | 1       | 0         | -                   | Edge 4        | 0mm      | Ant 3   | DSI 1       | 56640  | 3690        | 10.76               | 11.50               | 1.186                  | 62.9         | 1.006                     | 0.06             | 1.030                  | 1.019 | 1.229                  |
| 1st      | FR1 n77 Part270 | 100M     | QPSK       | 1       | 1         | DFT-SCS-30KHz       | Edge 2        | 0mm      | Ant 1   | DSI 0       | 656000 | 3840        | 10.91               | 11.60               | 1.172                  | -            | 1.000                     | 0.05             | 1.060                  | 1     | 1.243                  |
| 2nd      | FR1 n77 Part270 | 100M     | QPSK       | 1       | 1         | DFT-SCS-30KHz       | Edge 2        | 0mm      | Ant 1   | DSI 0       | 656000 | 3840        | 10.91               | 11.60               | 1.172                  | -            | 1.000                     | 0.03             | 1.040                  | 1.019 | 1.219                  |
| 1st      | FR1 n77 Part27Q | 100M     | QPSK       | 1       | 1         | DFT-SCS-30KHz       | Bottom Face   | 0mm      | Ant 5   | DSI 0       | 633334 | 3500.01     | 13.24               | 14.10               | 1.219                  | -            | 1.000                     | 0.08             | 1.020                  | 1     | 1.243                  |
| 2nd      | FR1 n77 Part27Q | 100M     | QPSK       | 1       | 1         | DFT-SCS-30KHz       | Bottom Face   | 0mm      | Ant 5   | DSI 0       | 633334 | 3500.01     | 13.24               | 14.10               | 1.219                  | -            | 1.000                     | 0.06             | 1.000                  | 1.020 | 1.219                  |
| 1st      | WLAN2.4GHz      | -        | -          | -       | -         | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on   | 6      | 2437        | 19.35               | 20.00               | 1.161                  | 99.31        | 1.007                     | -0.06            | 1.060                  | 1     | 1.240                  |
| 2nd      | WLAN2.4GHz      | -        | -          | -       | -         | 802.11b 1Mbps       | Bottom Face   | 0mm      | Ant 6   | Sensor on   | 6      | 2437        | 19.35               | 20.00               | 1.161                  | 99.31        | 1.007                     | 0.02             | 1.040                  | 1.019 | 1.216                  |
| 1st      | WLAN5.3GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Bottom Face   | 0mm      | Ant 7   | Sensor on   | 58     | 5290        | 14.33               | 15.00               | 1.167                  | 91.71        | 1.090                     | 0.01             | 1.070                  | 1     | 1.361                  |
| 2nd      | WLAN5.3GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Bottom Face   | 0mm      | Ant 7   | Sensor on   | 58     | 5290        | 14.33               | 15.00               | 1.167                  | 91.71        | 1.090                     | 0.09             | 1.050                  | 1.019 | 1.335                  |
| 1st      | WLAN5.5GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Edge 1        | 0mm      | Ant 7   | Sensor on   | 138    | 5690        | 12.59               | 13.50               | 1.233                  | 91.71        | 1.090                     | -0.02            | 0.925                  | 1     | 1.243                  |
| 2nd      | WLAN5.5GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Edge 1        | 0mm      | Ant 7   | Sensor on   | 138    | 5690        | 12.59               | 13.50               | 1.233                  | 91.71        | 1.090                     | 0.03             | 0.910                  | 1.016 | 1.223                  |
| 1st      | WLAN5.8GHz      | -        | -          | -       | -         | 802.11a 6Mbps       | Edge 3        | 0mm      | Ant 6   | Sensor off  | 165    | 5825        | 20.22               | 20.50               | 1.067                  | 93.36        | 1.071                     | 0.06             | 1.220                  | 1     | 1.394                  |
| 2nd      | WLAN5.8GHz      | -        | -          | -       | -         | 802.11a 6Mbps       | Edge 3        | 0mm      | Ant 6   | Sensor off  | 165    | 5825        | 20.22               | 20.50               | 1.067                  | 93.36        | 1.071                     | 0.03             | 1.200                  | 1.017 | 1.371                  |

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

**17. Simultaneous Transmission Analysis**

| No. | Transmission Configurations        | Body |
|-----|------------------------------------|------|
| 1.  | WWAN + 2.4GHz WLAN                 | Yes  |
| 2.  | WWAN + 5GHz WLAN                   | Yes  |
| 3.  | WWAN + Bluetooth                   | Yes  |
| 4.  | WWAN + NFC                         | Yes  |
| 5.  | 2.4GHz WLAN + NFC                  | Yes  |
| 6.  | Bluetooth + 5GHz WLAN + NFC        | Yes  |
| 7.  | WWAN + Bluetooth + 5GHz WLAN       | Yes  |
| 8.  | WWAN + 2.4GHz WLAN + NFC           | Yes  |
| 9.  | WWAN + Bluetooth + 5GHz WLAN + NFC | Yes  |

**General Note:**

1. WWAN above includes 5G NR bands.
2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. According to the EUT character, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
6. According to the EUT character, WLAN 5GHz and Bluetooth can transmit simultaneously.
7. According to the EUT character, WLAN 2.4GHz/5GHz/Bluetooth and NFC can transmit simultaneously.
8. The reported SAR summation is calculated based on the same configuration and test position.
9. For distance SAR co-located analysis, WWAN antenna always chose the worst SAR among each frequency range (750MHz/835MHz/1750MHz/1900MHz/2600MHz/3500MHz~3900MHz) within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
10. For example, ant 0, divided several frequency range: 750MHz/835MHz/1750MHz/1900MHz/2600MHz/3500MHz/3900MHz. 1900MHz SAR we chose the worst SAR value base on SAR testing position among LTE B2 /5G NR n2.WWAN two antenna standalone SAR summed together and co-located with WLAN+BT is more conservatively than standalone SAR per WWAN antenna co-located with WLAN/BT.
11. All licensed modes share the same antenna part and cannot transmit simultaneously.
12. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $SPLSR \leq 0.04$  for 1g SAR, simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg.
  - v) The SPLSR calculated results please refer to section 17.3.

### 17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and  $A \leq 1.0$ ; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and  $B \leq 1.0$ .

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if  $A + C \leq 1.0$  and  $B + C \leq 1.0$  can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1



17.2 Body Exposure Conditions

| WWAN Band         | Exposure Position | 1             | 2                | 3                | 4              | 5              | 6               | 7             | 1+2+3+7       | 1+4+5+6+7     | Case No |
|-------------------|-------------------|---------------|------------------|------------------|----------------|----------------|-----------------|---------------|---------------|---------------|---------|
|                   |                   | WWAN          | WLAN2.4GHz Ant 6 | WLAN2.4GHz Ant 7 | WLAN5GHz Ant 6 | WLAN5GHz Ant 7 | Bluetooth Ant 6 | NFC Ant 9     | Summed        | Summed        |         |
|                   |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)  | 1g SAR (W/kg)  | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |         |
| LTE Band 2 Ant 2  | Bottom Face       | 1.234         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 2.53          | 2.58          | 1/2     |
|                   | Edge 1            |               |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.34          | 0.64          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            | 0.010         | 0.707            |                  | 1.225          |                | 0.002           |               | 0.72          | 1.24          |         |
|                   | Edge 4            | 1.022         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 2.06          | 1.87          | 3/4     |
| LTE Band 5 Ant 0  | Bottom Face       | 0.639         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.94          | 1.98          | 52/53   |
|                   | Edge 1            | 0.490         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.83          | 1.13          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 0.669         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.71          | 1.52          | 54      |
| LTE Band 5 Ant 2  | Bottom Face       | 1.176         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 2.48          | 2.52          | 5/6     |
|                   | Edge 1            |               |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.34          | 0.64          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            | 0.190         | 0.707            |                  | 1.225          |                | 0.002           |               | 0.90          | 1.42          |         |
|                   | Edge 4            | 0.654         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.69          | 1.51          | 7       |
| LTE Band 7 Ant 0  | Bottom Face       | 0.480         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.78          | 1.82          | 8/9     |
|                   | Edge 1            | 0.149         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.49          | 0.79          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 0.601         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.64          | 1.45          | 10      |
| LTE Band 7 Ant 2  | Bottom Face       | 1.255         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 2.56          | 2.60          | 11/12   |
|                   | Edge 1            |               |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.34          | 0.64          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            | 0.072         | 0.707            |                  | 1.225          |                | 0.002           |               | 0.78          | 1.30          |         |
|                   | Edge 4            | 0.663         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.70          | 1.51          | 13      |
| LTE Band 12 Ant 0 | Bottom Face       | 0.596         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.90          | 1.94          | 14/15   |
|                   | Edge 1            | 0.364         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.70          | 1.00          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 0.814         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.85          | 1.67          | 16/17   |
| LTE Band 13 Ant 0 | Bottom Face       | 0.594         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.89          | 1.94          | 18/19   |
|                   | Edge 1            | 0.529         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.87          | 1.17          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 0.666         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.71          | 1.52          | 20      |
| LTE Band 14 Ant 0 | Bottom Face       | 0.617         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.92          | 1.96          | 21/22   |
|                   | Edge 1            | 0.522         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.86          | 1.16          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 0.686         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 1.73          | 1.54          | 23      |
| LTE Band 71 Ant 0 | Bottom Face       | 0.608         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.91          | 1.95          | 24/25   |
|                   | Edge 1            | 0.307         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.65          | 0.95          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |
|                   | Edge 4            | 1.073         | 0.758            | 0.282            | 0.668          | 0.181          | 0.002           |               | 2.11          | 1.92          | 26/27   |
| LTE Band 26 Ant 0 | Bottom Face       | 0.547         | 0.667            | 0.610            | 0.650          | 0.664          | 0.007           | 0.023         | 1.85          | 1.89          | 28/29   |
|                   | Edge 1            | 0.506         |                  | 0.333            |                | 0.632          | 0.002           | 0.006         | 0.85          | 1.15          |         |
|                   | Edge 2            |               |                  |                  |                |                | 0.004           | 0.001         | 0.00          | 0.01          |         |
|                   | Edge 3            |               | 0.707            |                  | 1.225          |                | 0.002           |               | 0.71          | 1.23          |         |



|                   |             |       |       |       |       |       |       |       |             |             |              |
|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|--------------|
|                   | Edge 4      | 0.568 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>1.61</b> | 1.42        | <b>30</b>    |
| LTE Band 66 Ant 0 | Bottom Face | 0.602 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>1.90</b> | <b>1.95</b> | <b>31/32</b> |
|                   | Edge 1      | 0.693 |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 1.03        | 1.33        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71        | 1.23        |              |
|                   | Edge 4      | 0.553 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.59        | 1.40        |              |
| LTE Band 66 Ant 2 | Bottom Face | 1.257 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>2.56</b> | <b>2.60</b> | <b>33/34</b> |
|                   | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      | 0.015 | 0.707 |       | 1.225 |       | 0.002 |       | 0.72        | 1.24        |              |
|                   | Edge 4      | 0.774 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>1.81</b> | <b>1.63</b> | <b>35/36</b> |
| LTE Band 25 Ant 0 | Bottom Face | 0.651 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>1.95</b> | <b>2.00</b> | <b>37/38</b> |
|                   | Edge 1      | 0.691 |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 1.03        | 1.33        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71        | 1.23        |              |
|                   | Edge 4      | 1.028 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>2.07</b> | <b>1.88</b> | <b>39/40</b> |
| LTE Band 38 Ant 0 | Bottom Face | 0.567 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>1.87</b> | <b>1.91</b> | <b>41/42</b> |
|                   | Edge 1      | 0.116 |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.46        | 0.76        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71        | 1.23        |              |
|                   | Edge 4      | 0.580 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>1.62</b> | 1.43        | <b>43</b>    |
| LTE Band 41 Ant 2 | Bottom Face | 1.257 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>2.56</b> | <b>2.60</b> | <b>44/45</b> |
|                   | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      | 0.093 | 0.707 |       | 1.225 |       | 0.002 |       | 0.80        | 1.32        |              |
|                   | Edge 4      | 0.903 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>1.94</b> | <b>1.75</b> | <b>46/47</b> |
| LTE Band 48 Ant 3 | Bottom Face | 0.559 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>1.86</b> | <b>1.90</b> | <b>48/49</b> |
|                   | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                   | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                   | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71        | 1.23        |              |
|                   | Edge 4      | 1.253 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | <b>2.29</b> | <b>2.10</b> | <b>50/51</b> |



| WWAN Band        | Exposure Position | 1                        | 2                                       | 3                                       | 4                                     | 5                                     | 6                                      | 7                                | 1+2+3+7                    | 1+4+5+6+7                  | Case No |
|------------------|-------------------|--------------------------|---|---|---------------------------------------|---------------------------------------|--|----------------------------------|----------------------------|----------------------------|---------|
|                  |                   | WWAN<br>1g SAR<br>(W/kg) | WLAN2.4GHz<br>Ant 6<br>1g SAR<br>(W/kg) | WLAN2.4GHz<br>Ant 7<br>1g SAR<br>(W/kg) | WLAN5GHz<br>Ant 6<br>1g SAR<br>(W/kg) | WLAN5GHz<br>Ant 7<br>1g SAR<br>(W/kg) | Bluetooth<br>Ant 6<br>1g SAR<br>(W/kg) | NFC<br>Ant 9<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) | Summed<br>1g SAR<br>(W/kg) |         |
| FR1 n12<br>Ant 0 | Bottom Face       | 0.649                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.95                       | 1.99                       | 1/2     |
|                  | Edge 1            | 0.375                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.71                       | 1.02                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 1.059                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 2.10                       | 1.91                       | 3/4     |
| FR1 n13<br>Ant 0 | Bottom Face       | 0.673                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.97                       | 2.02                       | 5/6     |
|                  | Edge 1            | 0.490                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.83                       | 1.13                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.696                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.74                       | 1.55                       | 7       |
| FR1 n14<br>Ant 0 | Bottom Face       | 0.675                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.98                       | 2.02                       | 8/9     |
|                  | Edge 1            | 0.531                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.87                       | 1.17                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.743                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.78                       | 1.59                       | 10      |
| FR1 n71<br>Ant 0 | Bottom Face       | 0.669                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.97                       | 2.01                       | 11/12   |
|                  | Edge 1            | 0.291                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.63                       | 0.93                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.890                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.93                       | 1.74                       | 13/14   |
| FR1 n5 Ant<br>0  | Bottom Face       | 0.637                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.94                       | 1.98                       | 15/16   |
|                  | Edge 1            | 0.530                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.87                       | 1.17                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.571                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.61                       | 1.42                       | 17      |
| FR1 n5 Ant<br>2  | Bottom Face       | 1.258                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 2.56                       | 2.60                       | 18/19   |
|                  | Edge 1            |                          |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.34                       | 0.64                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            | 0.170                    | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.88                       | 1.40                       |         |
|                  | Edge 4            | 0.766                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.81                       | 1.62                       | 20/21   |
| FR1 n66<br>Ant 0 | Bottom Face       | 0.688                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.99                       | 2.03                       | 22/23   |
|                  | Edge 1            | 0.759                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 1.10                       | 1.40                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.637                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.68                       | 1.49                       | 24      |
| FR1 n66<br>Ant 2 | Bottom Face       | 1.254                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 2.55                       | 2.60                       | 25/26   |
|                  | Edge 1            |                          |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.34                       | 0.64                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            | 0.025                    | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.73                       | 1.25                       |         |
|                  | Edge 4            | 0.769                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.81                       | 1.62                       | 27/28   |
| FR1 n25<br>Ant 0 | Bottom Face       | 0.657                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.96                       | 2.00                       | 29/30   |
|                  | Edge 1            | 0.319                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.66                       | 0.96                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            |                          | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.71                       | 1.23                       |         |
|                  | Edge 4            | 0.307                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 1.35                       | 1.16                       |         |
| FR1 n25<br>Ant 2 | Bottom Face       | 1.236                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 2.54                       | 2.58                       | 31/32   |
|                  | Edge 1            |                          |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.34                       | 0.64                       |         |
|                  | Edge 2            |                          |   |   |                                       |                                       | 0.004                                  | 0.001                            | 0.00                       | 0.01                       |         |
|                  | Edge 3            | 0.011                    | 0.707                                   |   | 1.225                                 |                                       | 0.002                                  |                                  | 0.72                       | 1.24                       |         |
|                  | Edge 4            | 1.063                    | 0.758                                   | 0.282                                   | 0.668                                 | 0.181                                 | 0.002                                  |                                  | 2.10                       | 1.91                       | 33/34   |
| FR1 n7 Ant<br>0  | Bottom Face       | 0.566                    | 0.667                                   | 0.610                                   | 0.650                                 | 0.664                                 | 0.007                                  | 0.023                            | 1.87                       | 1.91                       | 35/36   |
|                  | Edge 1            | 0.155                    |   | 0.333                                   |                                       | 0.632                                 | 0.002                                  | 0.006                            | 0.49                       | 0.80                       |         |



|                       |             |       |       |       |       |       |       |       |      |      |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
|                       | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      | 0.669 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.71 | 1.52 | 37    |
| FR1 n7 Ant 2          | Bottom Face | 1.100 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.40 | 2.44 | 38/39 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
|                       | Edge 3      | 0.072 | 0.707 |       | 1.225 |       | 0.002 |       | 0.78 | 1.30 |       |
| FR1 n41 Ant 1         | Edge 4      | 0.842 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.88 | 1.69 | 40/41 |
|                       | Bottom Face | 0.606 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.91 | 1.95 | 42/43 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      | 1.245 |       |       |       |       | 0.004 | 0.001 | 1.25 | 1.25 |       |
| FR1 n41 HPUE Ant 2    | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04 | 0.85 |       |
|                       | Bottom Face | 1.250 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.55 | 2.59 | 44/45 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
| FR1 n41 Ant 4         | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
|                       | Edge 3      | 0.079 | 0.707 |       | 1.225 |       | 0.002 |       | 0.79 | 1.31 |       |
|                       | Edge 4      | 0.851 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.89 | 1.70 | 46/47 |
|                       | Bottom Face | 1.241 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.54 | 2.59 | 48/49 |
| FR1 n41 Ant 5         | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      | 0.007 |       |       |       |       | 0.004 | 0.001 | 0.01 | 0.01 |       |
|                       | Edge 3      | 0.835 | 0.707 |       | 1.225 |       | 0.002 |       | 1.54 | 2.06 | 50    |
|                       | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04 | 0.85 |       |
| FR1 n41 Ant 5         | Bottom Face | 0.553 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.85 | 1.90 | 51/52 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
|                       | Edge 3      | 0.099 | 0.707 |       | 1.225 |       | 0.002 |       | 0.81 | 1.33 |       |
| FR1 n48 Ant 3         | Edge 4      | 0.016 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.06 | 0.87 |       |
|                       | Bottom Face | 0.771 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.07 | 2.12 | 53/54 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
| FR1 n77 Part270 Ant 1 | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      | 1.257 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 2.30 | 2.11 | 55/56 |
|                       | Bottom Face | 0.581 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.88 | 1.93 | 57/58 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
| FR1 n77 Part270 Ant 1 | Edge 2      | 1.243 |       |       |       |       | 0.004 | 0.001 | 1.24 | 1.25 |       |
|                       | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04 | 0.85 |       |
|                       | Bottom Face | 0.292 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.59 | 1.64 | 59    |
| FR1 n77 Part27Q Ant 1 | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      | 0.676 |       |       |       |       | 0.004 | 0.001 | 0.68 | 0.68 |       |
|                       | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04 | 0.85 |       |
| FR1 n77 Part270 Ant 3 | Bottom Face | 0.837 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.14 | 2.18 | 60/61 |
|                       | Edge 1      | 0.009 |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.35 | 0.65 |       |
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
|                       | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
| FR1 n77 Part27Q Ant 3 | Edge 4      | 1.246 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 2.29 | 2.10 | 62/63 |
|                       | Bottom Face | 0.215 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.52 | 1.56 |       |
|                       | Edge 1      | 0.003 |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
|                       | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00 | 0.01 |       |
| FR1 n77 Part270 Ant 4 | Edge 3      |       | 0.707 |       | 1.225 |       | 0.002 |       | 0.71 | 1.23 |       |
|                       | Edge 4      | 0.318 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.36 | 1.17 |       |
|                       | Bottom Face | 1.251 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 2.55 | 2.60 | 64/65 |
|                       | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34 | 0.64 |       |
| FR1 n77 Part270 Ant 4 | Edge 2      | 0.066 |       |       |       |       | 0.004 | 0.001 | 0.07 | 0.07 |       |





|                             |             |       |       |       |       |       |       |       |             |             |              |
|-----------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|--------------|
|                             | Edge 3      | 0.785 | 0.707 |       | 1.225 |       | 0.002 |       | 1.49        | <b>2.01</b> | <b>66</b>    |
|                             | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04        | 0.85        |              |
| FR1 n77<br>Part27Q<br>Ant 4 | Bottom Face | 0.815 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | <b>2.12</b> | <b>2.16</b> | <b>67/68</b> |
|                             | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                             | Edge 2      | 0.028 |       |       |       |       | 0.004 | 0.001 | 0.03        | 0.03        |              |
|                             | Edge 3      | 0.763 | 0.707 |       | 1.225 |       | 0.002 |       | 1.47        | <b>1.99</b> | <b>69</b>    |
|                             | Edge 4      |       | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.04        | 0.85        |              |
| FR1 n77<br>Part27O<br>Ant 5 | Bottom Face | 0.284 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.58        | <b>1.63</b> | <b>70</b>    |
|                             | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                             | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                             | Edge 3      | 0.270 | 0.707 |       | 1.225 |       | 0.002 |       | 0.98        | 1.50        |              |
|                             | Edge 4      | 0.016 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.06        | 0.87        |              |
| FR1 n77<br>Part27Q<br>Ant 5 | Bottom Face | 0.285 | 0.667 | 0.610 | 0.650 | 0.664 | 0.007 | 0.023 | 1.59        | <b>1.63</b> | <b>71</b>    |
|                             | Edge 1      |       |       | 0.333 |       | 0.632 | 0.002 | 0.006 | 0.34        | 0.64        |              |
|                             | Edge 2      |       |       |       |       |       | 0.004 | 0.001 | 0.00        | 0.01        |              |
|                             | Edge 3      | 0.342 | 0.707 |       | 1.225 |       | 0.002 |       | 1.05        | 1.57        |              |
|                             | Edge 4      | 0.008 | 0.758 | 0.282 | 0.668 | 0.181 | 0.002 |       | 1.05        | 0.86        |              |



| WWAN Band                | Exposure Position   | 1                | 2                   | 3                   | 4                 | 5                 | 6                  | 7                | 1+2+3+7          | 1+4+5+6+7        |
|--------------------------|---------------------|------------------|---------------------|---------------------|-------------------|-------------------|--------------------|------------------|------------------|------------------|
|                          |                     | WWAN             | WLAN2.4GHz<br>Ant 6 | WLAN2.4GHz<br>Ant 7 | WLAN5GHz<br>Ant 6 | WLAN5GHz<br>Ant 7 | Bluetooth<br>Ant 6 | NFC<br>Ant 9     | Summed           | Summed           |
|                          |                     | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg)    | 1g SAR<br>(W/kg)    | 1g SAR<br>(W/kg)  | 1g SAR<br>(W/kg)  | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |
| 750MHz Ant 0             | Bottom Face at 18mm | 0.477            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 0.84             | 0.81             |
|                          | Edge 1 at 2mm       | 0.567            |                     | 0.353               |                   | 0.495             | 0.002              | 0.006            | 0.93             | 1.07             |
|                          | Edge 4 at 20mm      | 0.150            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 0.30             | 0.32             |
| 835MHz Ant 0             | Bottom Face at 18mm | 0.468            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 0.83             | 0.80             |
|                          | Edge 1 at 2mm       | 0.596            |                     | 0.353               |                   | 0.495             | 0.002              | 0.006            | 0.96             | 1.10             |
|                          | Edge 4 at 20mm      | 0.165            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 0.31             | 0.33             |
| 835MHz Ant 2             | Bottom Face at 17mm | 0.246            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.73             | 0.63             |
|                          | Edge 4 at 17mm      | 0.098            | 0.222               | 0.059               | 0.168             | 0.021             | 0.002              |                  | 0.38             | 0.29             |
| 1750MHz Ant 0            | Bottom Face at 18mm | 0.695            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 1.06             | 1.03             |
|                          | Edge 1 at 2mm       | 0.590            |                     | 0.353               |                   | 0.495             | 0.002              | 0.006            | 0.95             | 1.09             |
|                          | Edge 4 at 20mm      | 0.171            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 0.32             | 0.34             |
| 1750MHz Ant 2            | Bottom Face at 17mm | 0.672            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.16             | 1.06             |
|                          | Edge 4 at 17mm      | 0.443            | 0.222               | 0.059               | 0.168             | 0.021             | 0.002              |                  | 0.72             | 0.63             |
| 1900MHz Ant 0            | Bottom Face at 18mm | 0.645            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 1.01             | 0.98             |
|                          | Edge 1 at 2mm       | 0.623            |                     | 0.353               |                   | 0.495             | 0.002              | 0.006            | 0.98             | 1.13             |
|                          | Edge 4 at 20mm      | 0.185            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 0.33             | 0.35             |
| 1900MHz Ant 2            | Bottom Face at 17mm | 0.621            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.10             | 1.01             |
|                          | Edge 4 at 17mm      | 0.797            | 0.222               | 0.059               | 0.168             | 0.021             | 0.002              |                  | 1.08             | 0.99             |
| 2600MHz Ant 0            | Bottom Face at 18mm | 0.584            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 0.95             | 0.92             |
|                          | Edge 1 at 2mm       | 0.558            |                     | 0.353               |                   | 0.495             | 0.002              | 0.006            | 0.92             | 1.06             |
|                          | Edge 4 at 20mm      | 0.892            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 1.04             | 1.06             |
| 2600MHz Ant 2            | Bottom Face at 17mm | 0.934            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.42             | 1.32             |
|                          | Edge 4 at 17mm      | 0.957            | 0.222               | 0.059               | 0.168             | 0.021             | 0.002              |                  | 1.24             | 1.15             |
| 3500MHz-3900MHz<br>Ant 3 | Edge 1 at 2mm       | 0.005            |                     | 0.353               |                   | 0.124             | 0.002              | 0.006            | 0.36             | 0.14             |
|                          | Bottom Face at 18mm | 1.104            | 0.242               | 0.100               | 0.111             | 0.192             | 0.007              | 0.023            | 1.47             | 1.44             |
|                          | Edge 4 at 20mm      | 0.956            | 0.127               | 0.022               | 0.154             | 0.010             | 0.002              |                  | 1.11             | 1.12             |

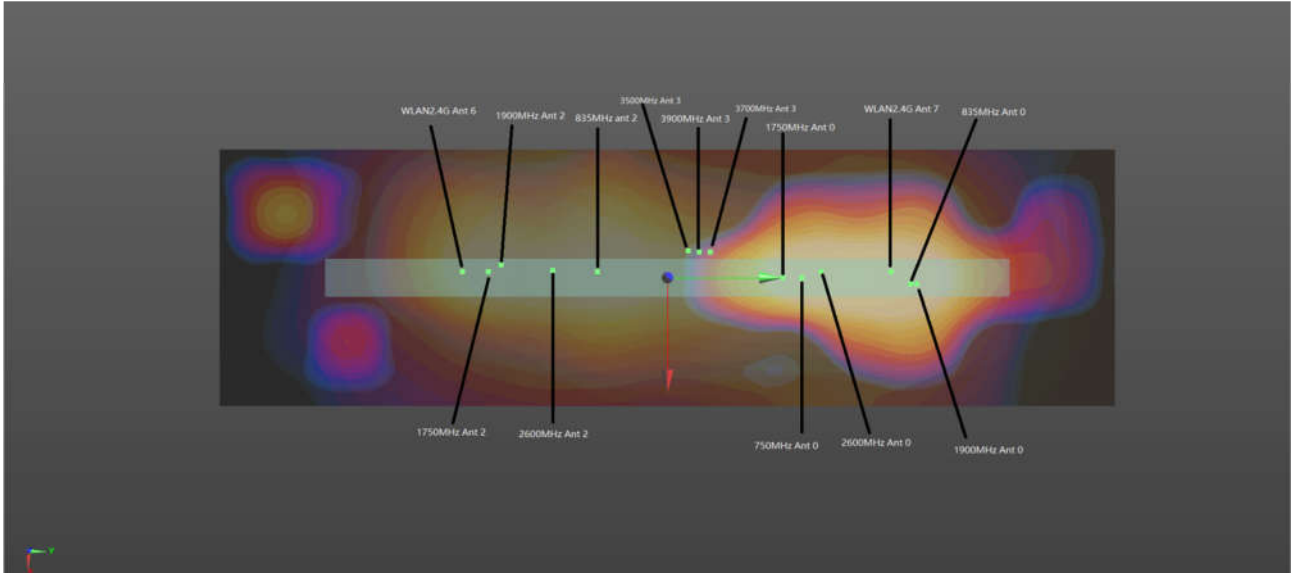
| WWAN Band                | Exposure Position   | 1                | 2                   | 3                   | 4                 | 5                 | 6                  | 7                | 1+2+3+7          | 1+4+5+6+7        |
|--------------------------|---------------------|------------------|---------------------|---------------------|-------------------|-------------------|--------------------|------------------|------------------|------------------|
|                          |                     | WWAN             | WLAN2.4GHz<br>Ant 6 | WLAN2.4GHz<br>Ant 7 | WLAN5GHz<br>Ant 6 | WLAN5GHz<br>Ant 7 | Bluetooth<br>Ant 6 | NFC<br>Ant 9     | Summed           | Summed           |
|                          |                     | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg)    | 1g SAR<br>(W/kg)    | 1g SAR<br>(W/kg)  | 1g SAR<br>(W/kg)  | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |
| 750MHz Ant 0             | Bottom Face at 17mm | 0.368            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.85             | 0.76             |
|                          | Edge 4 at 13mm      | 0.148            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.82             | 0.43             |
| 835MHz Ant 0             | Bottom Face at 17mm | 0.353            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.84             | 0.74             |
|                          | Edge 4 at 13mm      | 0.100            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.78             | 0.38             |
| 835MHz Ant 2             | Bottom Face at 17mm | 0.246            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.73             | 0.63             |
|                          | Edge 4 at 13mm      | 0.073            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.75             | 0.35             |
| 1750MHz Ant 0            | Bottom Face at 17mm | 0.397            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.88             | 0.78             |
|                          | Edge 4 at 13mm      | 0.125            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.80             | 0.40             |
| 1750MHz Ant 2            | Bottom Face at 17mm | 0.672            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.16             | 1.06             |
|                          | Edge 4 at 13mm      | 0.295            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.97             | 0.57             |
| 1900MHz Ant 0            | Bottom Face at 17mm | 0.317            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.80             | 0.70             |
|                          | Edge 4 at 13mm      | 0.091            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 0.77             | 0.37             |
| 1900MHz Ant 2            | Bottom Face at 17mm | 0.621            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.10             | 1.01             |
|                          | Edge 4 at 13mm      | 0.437            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 1.11             | 0.72             |
| 2600MHz Ant 0            | Bottom Face at 17mm | 0.275            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.76             | 0.66             |
|                          | Edge 4 at 13mm      | 0.506            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 1.18             | 0.79             |
| 2600MHz Ant 2            | Bottom Face at 17mm | 0.934            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 1.42             | 1.32             |
|                          | Edge 4 at 13mm      | 0.402            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 1.08             | 0.68             |
| 3500MHz-3900MHz<br>Ant 3 | Bottom Face at 17mm | 0.268            | 0.337               | 0.123               | 0.121             | 0.236             | 0.007              | 0.023            | 0.75             | 0.66             |
|                          | Edge 4 at 13mm      | 0.417            | 0.557               | 0.119               | 0.214             | 0.063             | 0.002              |                  | 1.09             | 0.70             |

| WWAN Band             | Exposure Position   | 1             | 2                | 3                | 4              | 5              | 6               | 7             | 1+2+3+7       | 1+4+5+6+7     |
|-----------------------|---------------------|---------------|------------------|------------------|----------------|----------------|-----------------|---------------|---------------|---------------|
|                       |                     | WWAN          | WLAN2.4GHz Ant 6 | WLAN2.4GHz Ant 7 | WLAN5GHz Ant 6 | WLAN5GHz Ant 7 | Bluetooth Ant 6 | NFC Ant 9     | Summed        | Summed        |
|                       |                     | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)  | 1g SAR (W/kg)  | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| 750MHz Ant 0          | Bottom Face at 16mm | 0.402         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.43          | 0.89          |
|                       | Edge 1 at 10mm      | 0.159         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.78          | 0.92          |
| 835MHz Ant 0          | Bottom Face at 16mm | 0.385         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.42          | 0.88          |
|                       | Edge 1 at 10mm      | 0.165         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.79          | 0.92          |
| 835MHz Ant 2          | Bottom Face at 16mm | 0.211         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.24          | 0.70          |
|                       | Edge 1 at 10mm      |               |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.62          | 0.76          |
| 1750MHz Ant 0         | Bottom Face at 16mm | 0.434         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.47          | 0.93          |
|                       | Edge 1 at 10mm      | 0.319         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.94          | 1.08          |
| 1750MHz Ant 2         | Bottom Face at 16mm | 0.369         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.40          | 0.86          |
|                       | Edge 1 at 10mm      |               |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.62          | 0.76          |
| 1900MHz Ant 0         | Bottom Face at 16mm | 0.331         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.36          | 0.82          |
|                       | Edge 1 at 10mm      | 0.330         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.95          | 1.09          |
| 1900MHz Ant 2         | Bottom Face at 16mm | 0.337         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.37          | 0.83          |
|                       | Edge 1 at 10mm      |               |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.62          | 0.76          |
| 2600MHz Ant 0         | Bottom Face at 16mm | 0.293         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.32          | 0.78          |
|                       | Edge 1 at 10mm      | 0.504         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 1.12          | 1.26          |
| 2600MHz Ant 2         | Bottom Face at 16mm | 0.493         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.52          | 0.98          |
|                       | Edge 1 at 10mm      |               |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.62          | 0.76          |
| 3500MHz-3900MHz Ant 3 | Bottom Face at 16mm | 0.294         | 0.301            | 0.707            | 0.212          | 0.249          | 0.007           | 0.023         | 1.33          | 0.79          |
|                       | Edge 1 at 10mm      | 0.001         |                  | 0.614            |                | 0.750          | 0.002           | 0.006         | 0.62          | 0.76          |

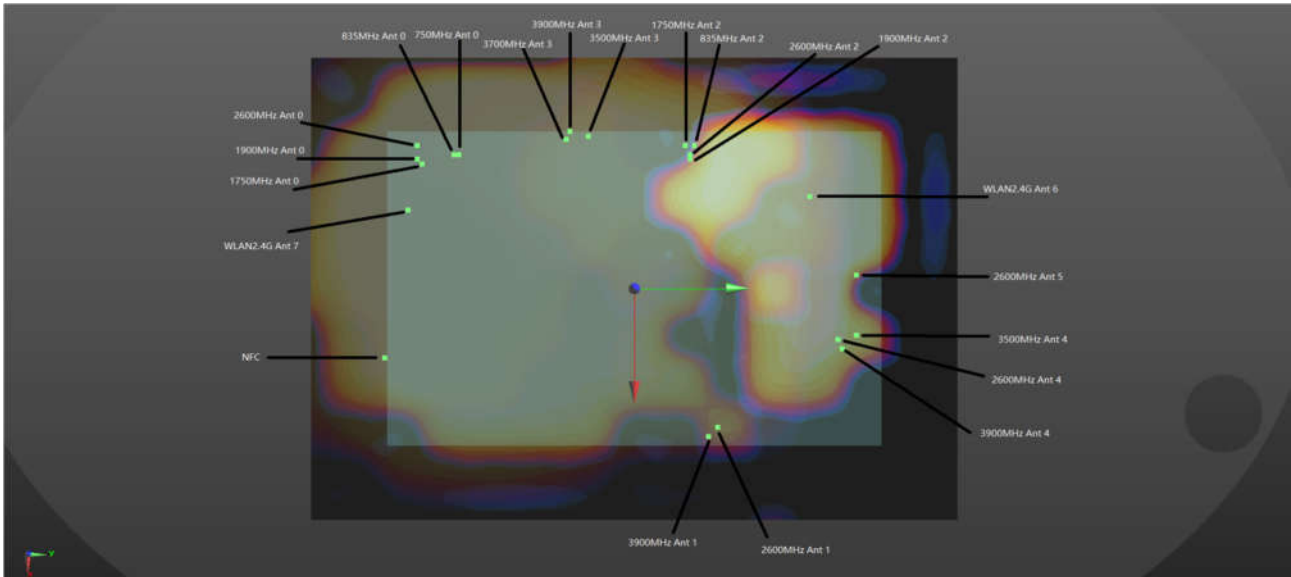
### 17.3 SPLSR Evaluation and Analysis

**General Note:**

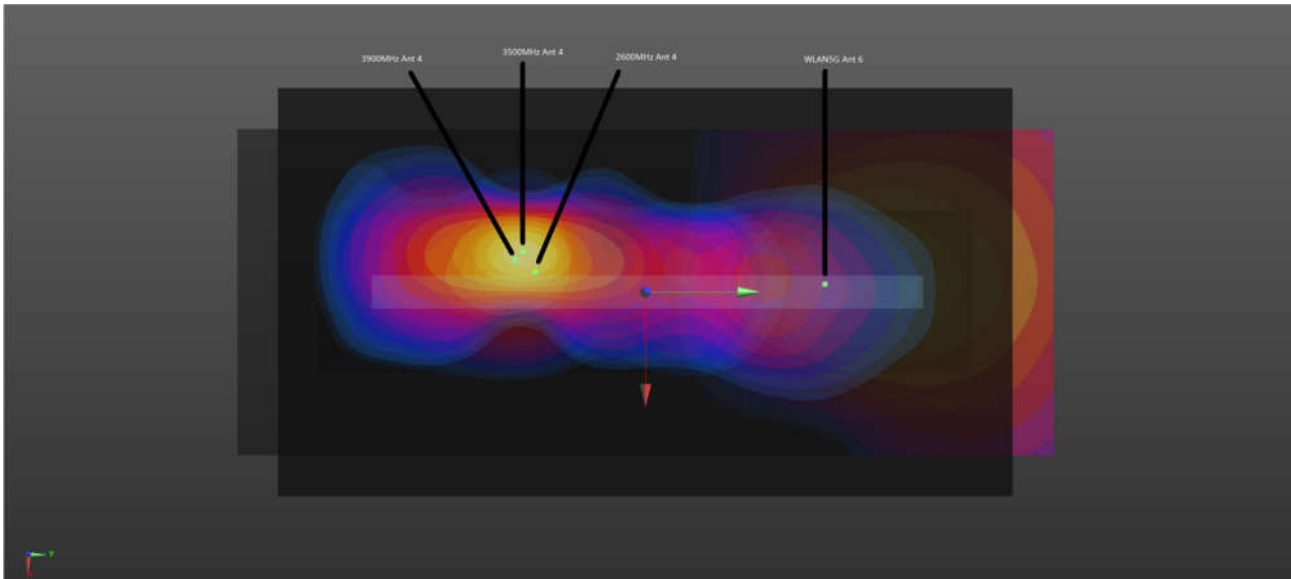
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where  $(x1, y1, z1)$  and  $(x2, y2, z2)$  are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2.  $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$  for 1g SAR, simultaneously transmission SAR measurement is not necessary.



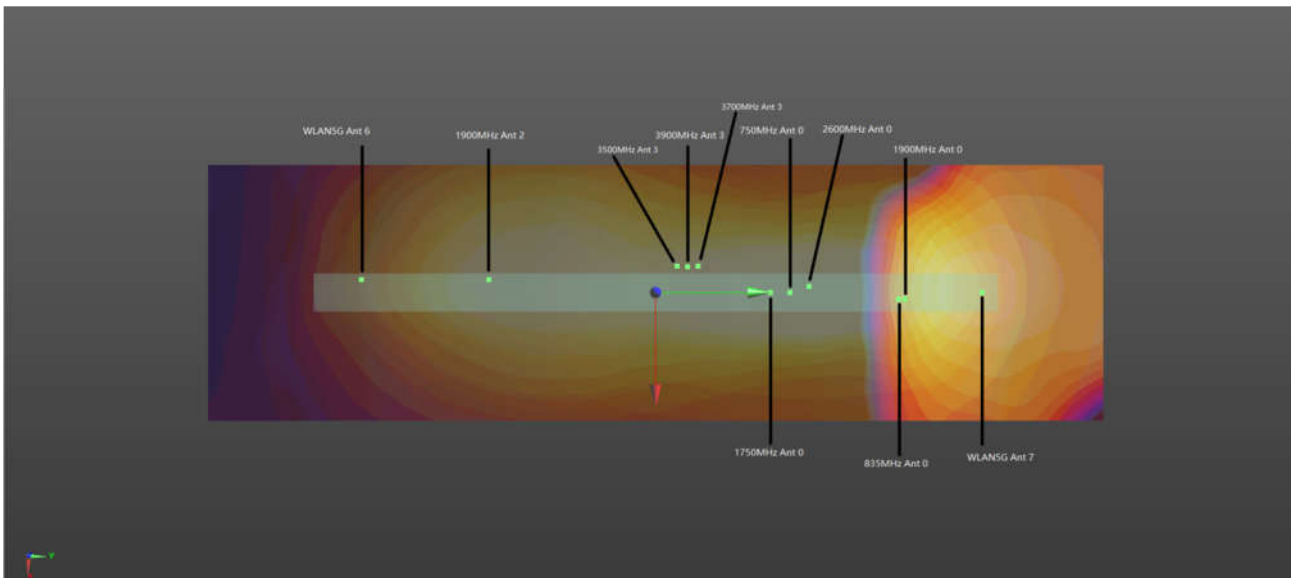
**WWAN+WLAN2.4G Ant6+WLAN2.4G Ant7\_Edge 4 0mm**



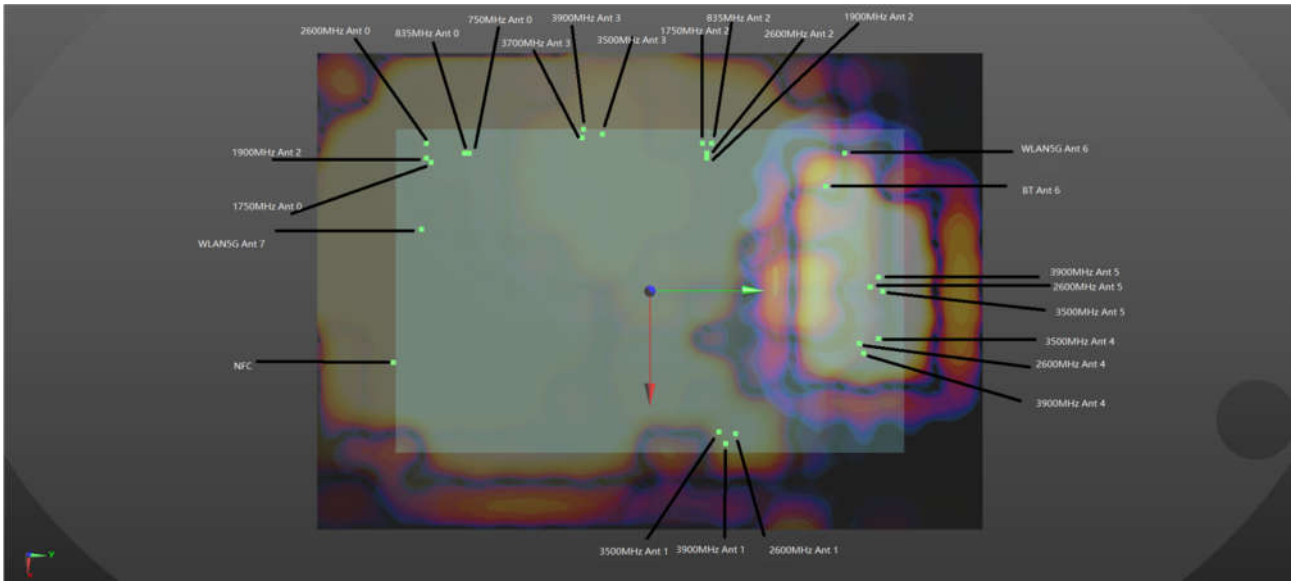
**WWAN+WLAN2.4G Ant6+WLAN2.4G Ant7+NFC\_Bottom Face 0mm**



WWAN+WLAN5G Ant6+BT\_Edge 3 0mm



WWAN+WLAN5G Ant6+WLAN5G Ant7+BT\_Edge 4 0mm



WWAN+WLAN5G Ant6+WLAN5G Ant7+NFC+BT\_Bottom Face 0mm

|                | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
| Case 1         | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 92.2             | 1.90              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 6 |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 121.9            | 1.84              | 0.02          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 111.0            | 1.26              | 0.01          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9      | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 2         | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 75.3             | 1.89              | 0.03          | Not required     |
|                | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 121.1            | 1.90              | 0.02          | Not required     |
|                | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | LTE Band 2 Ant 2 | Bottom Face | 1.234      | 0        | -80.22                 | 6.45    | -1.16 | 111.0            | 1.26              | 0.01          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |
| WLAN5GHz Ant 7 | 0.664            |             | 0          | -26.79   | -102.14                | 1.4     |       |                  |                   |               |                  |
| NFC Ant 9      | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 3         | LTE Band 2 Ant 2 | Edge 4      | 1.022      | 0        | -4.83                  | -22.06  | 0.28  | 68.2             | 1.78              | 0.03          | Not required     |



| Case             | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                  |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
| Case 3           | WLAN2.4GHz Ant 6 | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 92.2             | 1.30              | 0.02          | Not required     |
|                  | LTE Band 2 Ant 2 |             | 1.022      | 0        | -4.83                  | -22.06  | 0.28  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 7 | Edge 4      | 0.282      | 0        | -1.81                  | 70.14   | 0.53  | 160.1            | 1.04              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
| Case 4           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | LTE Band 2 Ant 2 | Edge 4      | 1.022      | 0        | -4.83                  | -22.06  | 0.28  | 73.7             | 1.69              | 0.03          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | LTE Band 2 Ant 2 | Edge 4      | 1.022      | 0        | -4.83                  | -22.06  | 0.28  | 129.3            | 1.20              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 7   |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
| WLAN5GHz Ant 7   | 0.181            |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |
| Case 5           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 87.6             | 1.84              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 113.8            | 1.79              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 93.5             | 1.20              | 0.01          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9        | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 6           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 71.0             | 1.83              | 0.03          | Not required     |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 112.0            | 1.84              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | LTE Band 5 Ant 2 | Bottom Face | 1.176      | 0        | -56                    | 6       | 0.21  | 93.5             | 1.20              | 0.01          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN5GHz Ant 7   | Bottom Face      | 0.664       | 0          | -26.79   | -102.14                | 1.4     | 48.1  | 0.69             | 0.01              | Not required  |                  |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 7           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | LTE Band 5 Ant 2 | Edge 4      | 0.654      | 0        | -4                     | -5.11   | 0.21  | 85.0             | 1.41              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|                  | LTE Band 5 Ant 2 | Edge 4      | 0.654      | 0        | -4                     | -5.11   | 0.21  | 75.3             | 0.94              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
| WLAN2.4GHz Ant 7 | 0.282            |             | 0          | -1.81    | 70.14                  | 0.53    |       |                  |                   |               |                  |
| Case 8           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |





| Case      | Band             | Position    | SAR (W/kg) | Gap  | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------|------------------|-------------|------------|------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|           |                  |             |            | (mm) | X                      | Y       | Z     |                  |                   |               |                  |
| Case 8    | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 165.6            | 1.15              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 6 |             | 0.667      | 0    | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 44.5             | 1.09              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 65.2             | 0.50              | 0.01          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0    | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 9    | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 149.0            | 1.14              | 0.01          | Not required     |
|           | WLAN5GHz Ant 6   |             | 0.65       | 0    | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 62.9             | 1.14              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7   |             | 0.664      | 0    | -26.79                 | -125    | 1.4   |                  |                   |               |                  |
|           | LTE Band 7 Ant 0 | Bottom Face | 0.48       | 0    | -60.53                 | -71.9   | 1.03  | 65.2             | 0.50              | 0.01          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0    | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7   |             | 0.664      | 0    | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0    | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0    | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9 | 0.023            |             | 0          | 4.28 | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 10   | LTE Band 7 Ant 0 | Edge 4      | 0.601      | 0    | -0.55                  | 50.76   | 0.39  | 140.7            | 1.64              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7 |             | 0.282      | 0    | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 |             | 0.758      | 0    | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 11   | LTE Band 7 Ant 2 | Bottom Face | 1.255      | 0    | -81.3                  | 6       | 0.24  | 92.9             | 1.92              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 6 |             | 0.667      | 0    | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | LTE Band 7 Ant 2 | Bottom Face | 1.255      | 0    | -81.3                  | 6       | 0.24  | 121.9            | 1.87              | 0.02          | Not required     |
|           | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | LTE Band 7 Ant 2 | Bottom Face | 1.255      | 0    | -81.3                  | 6       | 0.24  | 111.5            | 1.28              | 0.01          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0    | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 12   | LTE Band 7 Ant 2 | Bottom Face | 1.255      | 0    | -81.3                  | 6       | 0.24  | 76.1             | 1.91              | 0.03          | Not required     |
|           | WLAN5GHz Ant 6   |             | 0.65       | 0    | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | LTE Band 7 Ant 2 | Bottom Face | 1.255      | 0    | -81.3                  | 6       | 0.24  | 141.9            | 1.92              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7   |             | 0.664      | 0    | -26.79                 | -125    | 1.4   |                  |                   |               |                  |
|           | LTE Band 7 Ant 2 |             | 1.255      | 0    | -81.3                  | 6       | 0.24  |                  |                   |               |                  |





| Case              | Band              | Position          | SAR (W/kg)  | Gap (mm) | SAR peak location (mm) |         |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-------------------|-------------------|-------------------|-------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
|                   |                   |                   |             |          | X                      | Y       | Z      |                  |                   |               |                  |
| Case 12           | NFC Ant 9         | Bottom Face       | 0.023       | 0        | 4.28                   | -65.49  | -1.13  | 181.1            | 1.32              | 0.01          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                   | Bluetooth Ant 6   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    | Bottom Face       | 0.664       | 0        | -26.79                 | -102.14 | 1.4    | 153.8            | 0.68              | 0.00          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                   | Bluetooth Ant 6   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | NFC Ant 9         | Bottom Face       | 0.023       | 0        | 4.28                   | -65.49  | -1.13  | 48.1             | 0.69              | 0.01          | Not required     |
|                   | WLAN5GHz Ant 7    |                   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 13           | LTE Band 7 Ant 2  | Edge 4            | 0.663       | 0        | -4                     | -5.11   | 0.21   | 85.0             | 1.42              | 0.02          | Not required     |
|                   | WLAN2.4GHz Ant 6  |                   | 0.758       | 0        | 2.65                   | -89.89  | 1.28   |                  |                   |               |                  |
|                   | LTE Band 7 Ant 2  | Edge 4            | 0.663       | 0        | -4                     | -5.11   | 0.21   | 75.3             | 0.95              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.282       | 0        | -1.81                  | 70.14   | 0.53   |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Edge 4            | 0.758       | 0        | 2.65                   | -89.89  | 1.28   | 160.1            | 1.04              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.282       | 0        | -1.81                  | 70.14   | 0.53   |                  |                   |               |                  |
|                   | Case 14           | LTE Band 12 Ant 0 | Bottom Face | 0.596    | 0                      | -64.79  | -69.84 | 2.14             | 163.9             | 1.26          | 0.01             |
| WLAN2.4GHz Ant 6  |                   | 0.667             |             | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
| LTE Band 12 Ant 0 |                   | Bottom Face       | 0.596       | 0        | -64.79                 | -69.84  | 2.14   | 49.0             | 1.21              | 0.03          | Not required     |
| WLAN2.4GHz Ant 7  |                   |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
| LTE Band 12 Ant 0 |                   | Bottom Face       | 0.596       | 0        | -64.79                 | -69.84  | 2.14   | 69.3             | 0.62              | 0.01          | Not required     |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN2.4GHz Ant 6  |                   | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 199.1            | 1.28              | 0.01          | Not required     |
| WLAN2.4GHz Ant 7  |                   |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
| WLAN2.4GHz Ant 6  |                   | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 167.7            | 0.69              | 0.00          | Not required     |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN2.4GHz Ant 7  |                   | Bottom Face       | 0.61        | 0        | -30.71                 | -104.9  | -0.62  | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 15           | LTE Band 12 Ant 0 | Bottom Face       | 0.596       | 0        | -64.79                 | -69.84  | 2.14   | 147.2            | 1.25              | 0.01          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                   | Bluetooth Ant 6   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | LTE Band 12 Ant 0 | Bottom Face       | 0.596       | 0        | -64.79                 | -69.84  | 2.14   | 49.9             | 1.26              | 0.03          | Not required     |
|                   | WLAN5GHz Ant 7    |                   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                   | LTE Band 12 Ant 0 | Bottom Face       | 0.596       | 0        | -64.79                 | -69.84  | 2.14   | 69.3             | 0.62              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face       | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 181.1            | 1.32              | 0.01          | Not required     |
|                   | Bluetooth Ant 6   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    |                   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face       | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 153.8            | 0.68              | 0.00          | Not required     |
|                   | Bluetooth Ant 6   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    | Bottom Face       | 0.664       | 0        | -26.79                 | -102.14 | 1.4    | 48.1             | 0.69              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 16           | LTE Band 12 Ant 0 | Edge 4            | 0.814       | 0        | 0.78                   | 49.72   | 2.21   | 139.6            | 1.85              | 0.02          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.282       | 0        | -1.81                  | 70.14   | 0.53   |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  |                   | 0.758       | 0        | 2.65                   | -89.89  | 1.28   |                  |                   |               |                  |
| Case 17           | LTE Band 12 Ant 0 | Edge 4            | 0.814       | 0        | 0.78                   | 49.72   | 2.21   | 145.5            | 1.48              | 0.01          | Not required     |



| Case              | Band              | Position          | SAR (W/kg)  | Gap (mm) | SAR peak location (mm) |         |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-------------------|-------------------|-------------------|-------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
|                   |                   |                   |             |          | X                      | Y       | Z      |                  |                   |               |                  |
|                   | Bluetooth Ant 6   | Edge 4            | 0.002       | 0        | -3.2                   | -95.73  | 1.65   | 57.4             | 1.00              | 0.02          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.668       | 0        | -4.24                  | -99.74  | -1.26  |                  |                   |               |                  |
|                   | LTE Band 12 Ant 0 | Edge 4            | 0.814       | 0        | 0.78                   | 49.72   | 2.21   | 202.9            | 0.85              | 0.00          | Not required     |
|                   | WLAN5GHz Ant 7    |                   | 0.181       | 0        | 1.43                   | 107.07  | 1.77   |                  |                   |               |                  |
|                   | WLAN5GHz Ant 6    | Edge 4            | 0.668       | 0        | -4.24                  | -99.74  | -1.26  | 202.9            | 0.85              | 0.00          | Not required     |
|                   | Bluetooth Ant 6   |                   | 0.002       | 0        | -3.2                   | -95.73  | 1.65   |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    |                   | 0.181       | 0        | 1.43                   | 107.07  | 1.77   |                  |                   |               |                  |
| Case 18           | LTE Band 13 Ant 0 | Bottom Face       | 0.594       | 0        | -64.31                 | -70.73  | 3.42   | 164.7            | 1.26              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 6  |                   | 0.667       | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                   | LTE Band 13 Ant 0 | Bottom Face       | 0.594       | 0        | -64.31                 | -70.73  | 3.42   | 48.1             | 1.20              | 0.03          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | LTE Band 13 Ant 0 | Bottom Face       | 0.594       | 0        | -64.31                 | -70.73  | 3.42   | 68.9             | 0.62              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 199.1            | 1.28              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 167.7            | 0.69              | 0.00          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 7  | Bottom Face       | 0.61        | 0        | -30.71                 | -104.9  | -0.62  | 52.7             | 0.63              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | Case 19           | LTE Band 13 Ant 0 | Bottom Face | 0.594    | 0                      | -64.31  | -70.73 | 3.42             | 148.1             | 1.25          | 0.01             |
| WLAN5GHz Ant 6    |                   | 0.65              |             | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
| Bluetooth Ant 6   |                   | 0.007             |             | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
| LTE Band 13 Ant 0 |                   | Bottom Face       | 0.594       | 0        | -64.31                 | -70.73  | 3.42   | 66.0             | 1.26              | 0.02          | Not required     |
| WLAN5GHz Ant 7    |                   |                   | 0.664       | 0        | -26.79                 | -125    | 1.4    |                  |                   |               |                  |
| LTE Band 13 Ant 0 |                   | Bottom Face       | 0.594       | 0        | -64.31                 | -70.73  | 3.42   | 68.9             | 0.62              | 0.01          | Not required     |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN5GHz Ant 6    |                   | Bottom Face       | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 181.1            | 1.32              | 0.01          | Not required     |
| Bluetooth Ant 6   |                   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
| WLAN5GHz Ant 7    |                   |                   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
| WLAN5GHz Ant 6    |                   | Bottom Face       | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 153.8            | 0.68              | 0.00          | Not required     |
| Bluetooth Ant 6   |                   |                   | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN5GHz Ant 7    |                   | Bottom Face       | 0.664       | 0        | -26.79                 | -102.14 | 1.4    | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9         |                   |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 20           | LTE Band 13 Ant 0 | Edge 4            | 0.666       | 0        | 1.8                    | 49.82   | 1.51   | 139.7            | 1.71              | 0.02          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.282       | 0        | -1.81                  | 70.14   | 0.53   |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  |                   | 0.758       | 0        | 2.65                   | -89.89  | 1.28   |                  |                   |               |                  |
| Case 21           | LTE Band 14 Ant 0 | Bottom Face       | 0.617       | 0        | -64.5                  | -71.55  | -0.12  | 165.6            | 1.28              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 6  |                   | 0.667       | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                   | LTE Band 14 Ant 0 | Bottom Face       | 0.617       | 0        | -64.5                  | -71.55  | -0.12  | 47.5             | 1.23              | 0.03          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | LTE Band 14 Ant 0 | Bottom Face       | 0.617       | 0        | -64.5                  | -71.55  | -0.12  | 69.1             | 0.64              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 199.1            | 1.28              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 167.7            | 0.69              | 0.00          | Not required     |
|                   | NFC Ant 9         |                   | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 7  | Bottom Face       | 0.61        | 0        | -30.71                 | -104.9  | -0.62  | 52.7             | 0.63              | 0.01          | Not required     |



| Case              | Band              | Position    | SAR (W/kg) | Gap (mm)   | SAR peak location (mm) |                        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results     | Simultaneous SAR |
|-------------------|-------------------|-------------|------------|------------|------------------------|------------------------|-------|------------------|-------------------|-------------------|------------------|
|                   |                   |             |            |            | X                      | Y                      | Z     |                  |                   |                   |                  |
|                   |                   |             |            |            |                        |                        |       |                  |                   |                   |                  |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
| Case 22           | LTE Band 14 Ant 0 | Bottom Face | 0.617      | 0          | -64.5                  | -71.55                 | -0.12 | 148.9            | 1.27              | 0.01              | Not required     |
|                   | WLAN5GHz Ant 6    |             | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  |                  |                   |                   |                  |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | LTE Band 14 Ant 0 | Bottom Face | 0.617      | 0          | -64.5                  | -71.55                 | -0.12 | 65.4             | 1.28              | 0.02              | Not required     |
|                   | WLAN5GHz Ant 7    |             | 0.664      | 0          | -26.79                 | -125                   | 1.4   |                  |                   |                   |                  |
|                   | LTE Band 14 Ant 0 | Bottom Face | 0.617      | 0          | -64.5                  | -71.55                 | -0.12 | 69.1             | 0.64              | 0.01              | Not required     |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  | 181.1            | 1.32              | 0.01              | Not required     |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 7    |             | 0.664      | 0          | -26.79                 | -102.14                | 1.4   |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  | 153.8            | 0.68              | 0.00              | Not required     |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0          | -26.79                 | -102.14                | 1.4   | 48.1             | 0.69              | 0.01              | Not required     |
| NFC Ant 9         | 0.023             |             | 0          | 4.28       | -65.49                 | -1.13                  |       |                  |                   |                   |                  |
| Case 23           | LTE Band 14 Ant 0 | Edge 4      | 0.686      | 0          | 0.48                   | 52.48                  | 0.75  | 142.4            | 1.73              | 0.02              | Not required     |
|                   | WLAN2.4GHz Ant 7  |             | 0.282      | 0          | -1.81                  | 70.14                  | 0.53  |                  |                   |                   |                  |
|                   | WLAN2.4GHz Ant 6  |             | 0.758      | 0          | 2.65                   | -89.89                 | 1.28  |                  |                   |                   |                  |
|                   | LTE Band 71 Ant 0 | Bottom Face | 0.608      | 0          | -65.88                 | -69.56                 | 0.03  | 163.7            | 1.28              | 0.01              | Not required     |
| WLAN2.4GHz Ant 6  | 0.667             |             | 0          | -49.46     | 93.31                  | 1.27                   |       |                  |                   |                   |                  |
| LTE Band 71 Ant 0 | Bottom Face       | 0.608       | 0          | -65.88     | -69.56                 | 0.03                   | 49.9  | 1.22             | 0.03              | Not required      |                  |
| WLAN2.4GHz Ant 7  |                   | 0.61        | 0          | -30.71     | -104.9                 | -0.62                  |       |                  |                   |                   |                  |
| LTE Band 71 Ant 0 | Bottom Face       | 0.608       | 0          | -65.88     | -69.56                 | 0.03                   | 70.3  | 0.63             | 0.01              | Not required      |                  |
| NFC Ant 9         |                   | 0.023       | 0          | 4.28       | -65.49                 | -1.13                  |       |                  |                   |                   |                  |
| WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0          | -49.46     | 93.31                  | 1.27                   | 199.1 | 1.28             | 0.01              | Not required      |                  |
| WLAN2.4GHz Ant 7  |                   | 0.61        | 0          | -30.71     | -104.9                 | -0.62                  |       |                  |                   |                   |                  |
| WLAN2.4GHz Ant 6  | Bottom Face       | 0.667       | 0          | -49.46     | 93.31                  | 1.27                   | 167.7 | 0.69             | 0.00              | Not required      |                  |
| NFC Ant 9         |                   | 0.023       | 0          | 4.28       | -65.49                 | -1.13                  |       |                  |                   |                   |                  |
| WLAN2.4GHz Ant 7  | Bottom Face       | 0.61        | 0          | -30.71     | -104.9                 | -0.62                  | 52.7  | 0.63             | 0.01              | Not required      |                  |
| NFC Ant 9         |                   | 0.023       | 0          | 4.28       | -65.49                 | -1.13                  |       |                  |                   |                   |                  |
| Case 25           | LTE Band 71 Ant 0 | Bottom Face | 0.608      | 0          | -65.88                 | -69.56                 | 0.03  | 147.0            | 1.27              | 0.01              | Not required     |
|                   | WLAN5GHz Ant 6    |             | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  |                  |                   |                   |                  |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | LTE Band 71 Ant 0 | Bottom Face | 0.608      | 0          | -65.88                 | -69.56                 | 0.03  | 50.9             | 1.27              | 0.03              | Not required     |
|                   | WLAN5GHz Ant 7    |             | 0.664      | 0          | -26.79                 | -102.14                | 1.4   |                  |                   |                   |                  |
|                   | LTE Band 71 Ant 0 | Bottom Face | 0.608      | 0          | -65.88                 | -69.56                 | 0.03  | 70.3             | 0.63              | 0.01              | Not required     |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  | 181.1            | 1.32              | 0.01              | Not required     |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 7    |             | 0.664      | 0          | -26.79                 | -102.14                | 1.4   |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0          | -56.13                 | 87.9                   | 0.57  | 153.8            | 0.68              | 0.00              | Not required     |
|                   | Bluetooth Ant 6   |             | 0.007      | 0          | -53.72                 | 76.93                  | -0.34 |                  |                   |                   |                  |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
|                   | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0          | -26.79                 | -102.14                | 1.4   | 48.1             | 0.69              | 0.01              | Not required     |
|                   | NFC Ant 9         |             | 0.023      | 0          | 4.28                   | -65.49                 | -1.13 |                  |                   |                   |                  |
|                   | Case 26           | Band        | Position   | SAR (W/kg) | Gap (mm)               | SAR peak location (mm) |       |                  | 3D distance (mm)  | Summed SAR (W/kg) | SPLSR Results    |
|                   |                   |             |            |            | X                      | Y                      | Z     |                  |                   |                   |                  |



| Case           | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|-------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                   |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                | LTE Band 71 Ant 0 | Edge 4      | 1.073      | 0        | -0.15                  | 53.82   | -0.7  | 143.8            | 2.11              | 0.02          | Not required     |
|                | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 27        | LTE Band 71 Ant 0 | Edge 4      | 1.073      | 0        | -0.15                  | 53.82   | -0.7  | 149.6            | 1.74              | 0.02          | Not required     |
|                | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6    |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                | LTE Band 71 Ant 0 | Edge 4      | 1.073      | 0        | -0.15                  | 53.82   | -0.7  | 53.3             | 1.25              | 0.03          | Not required     |
|                | WLAN5GHz Ant 7    |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6    | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
| WLAN5GHz Ant 7 | 0.181             |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |
| Case 28        | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 169.0            | 1.21              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 47.6             | 1.16              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 72.3             | 0.57              | 0.01          | Not required     |
|                | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7  | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|                | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 29        | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 152.3            | 1.20              | 0.01          | Not required     |
|                | WLAN5GHz Ant 6    |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 64.7             | 1.21              | 0.02          | Not required     |
|                | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -125    | 1.4   |                  |                   |               |                  |
|                | LTE Band 26 Ant 0 | Bottom Face | 0.547      | 0        | -67.38                 | -74.69  | 2.48  | 72.3             | 0.57              | 0.01          | Not required     |
|                | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9      | 0.023             |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 30        | LTE Band 26 Ant 0 | Edge 4      | 0.568      | 0        | 0.67                   | 43.95   | -0.22 | 133.9            | 1.33              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|                | LTE Band 26 Ant 0 | Edge 4      | 0.568      | 0        | 0.67                   | 43.95   | -0.22 | 26.3             | 0.85              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6  | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
| Case 31        | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 165.7            | 1.27              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |



|           | Band              | Position    | SAR (W/kg) | Gap      | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------|-------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|           |                   |             |            | (mm)     | X                      | Y       | Z     |                  |                   |               |                  |
|           | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 45.6             | 1.21              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 66.8             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7  | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 32   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|           | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 149.1            | 1.26              | 0.01          | Not required     |
|           | WLAN5GHz Ant 6    |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 63.9             | 1.27              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -125    | 1.4   |                  |                   |               |                  |
|           | LTE Band 66 Ant 0 | Bottom Face | 0.602      | 0        | -62.21                 | -71.88  | 0.1   | 66.8             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 33   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 92.6             | 1.92              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 117.6            | 1.87              | 0.02          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 105.3            | 1.28              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7  | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9 | 0.023             |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 34   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 75.8             | 1.91              | 0.03          | Not required     |
|           | WLAN5GHz Ant 6    |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 116.6            | 1.92              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Bottom Face | 1.257      | 0        | -74.6                  | 4.16    | 2.41  | 105.3            | 1.28              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |



| Case      | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------|-------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|           |                   |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 35   | LTE Band 66 Ant 2 | Edge 4      | 0.774      | 0        | -1.67                  | -31     | 0.21  | 59.1             | 1.53              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Edge 4      | 0.774      | 0        | -1.67                  | -31     | 0.21  | 101.1            | 1.06              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
| Case 36   | LTE Band 66 Ant 2 | Edge 4      | 0.774      | 0        | -1.67                  | -31     | 0.21  | 64.8             | 1.44              | 0.03          | Not required     |
|           | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|           | LTE Band 66 Ant 2 | Edge 4      | 0.774      | 0        | -1.67                  | -31     | 0.21  | 138.1            | 0.96              | 0.01          | Not required     |
|           | WLAN5GHz Ant 7    |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|           | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
| Case 37   | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 160.7            | 1.32              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 48.9             | 1.26              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 65.8             | 0.67              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7  | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 38   | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 144.1            | 1.31              | 0.01          | Not required     |
|           | WLAN5GHz Ant 6    |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 49.5             | 1.32              | 0.03          | Not required     |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | LTE Band 25 Ant 0 | Bottom Face | 0.651      | 0        | -61.53                 | -66.94  | -1.13 | 65.8             | 0.67              | 0.01          | Not required     |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9 | 0.023             |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 39   | LTE Band 25 Ant 0 | Edge 4      | 1.028      | 0        | 0.64                   | 34.48   | -0.11 | 124.4            | 2.07              | 0.02          | Not required     |
|           | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |





|                  | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|-------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                  |                   |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
| Case 40          | LTE Band 25 Ant 0 | Edge 4      | 1.028      | 0        | 0.64                   | 34.48   | -0.11 | 130.3            | 1.70              | 0.02          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | LTE Band 25 Ant 0 | Edge 4      | 1.028      | 0        | 0.64                   | 34.48   | -0.11 | 72.6             | 1.21              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 7    |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
| WLAN5GHz Ant 7   | 0.181             |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |
| Case 41          | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 175.1            | 1.23              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 36.8             | 1.18              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 65.4             | 0.59              | 0.01          | Not required     |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 7  | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 42          | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 158.5            | 1.22              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 6    |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                  | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 54.1             | 1.23              | 0.03          | Not required     |
|                  | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -125    | 1.4   |                  |                   |               |                  |
|                  | LTE Band 38 Ant 0 | Bottom Face | 0.567      | 0        | -59.02                 | -81.5   | 1.75  | 65.4             | 0.59              | 0.01          | Not required     |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9        | 0.023             |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 43          | LTE Band 38 Ant 0 | Edge 4      | 0.58       | 0        | -1.88                  | 50.16   | 0.43  | 139.2            | 1.62              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -2                     | 70      | 0.56  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2                      | -89     | 0.31  |                  |                   |               |                  |
| Case 44          | LTE Band 41 Ant 2 | Bottom Face | 1.257      | 0        | -76.54                 | 4.38    | 2     | 93.0             | 1.92              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 6  |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | LTE Band 41 Ant 2 | Bottom Face | 1.257      | 0        | -76.54                 | 4.38    | 2     | 118.5            | 1.87              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 7  |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | LTE Band 41 Ant 2 | Bottom Face | 1.257      | 0        | -76.54                 | 4.38    | 2     | 106.9            | 1.28              | 0.01          | Not required     |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6  | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
| WLAN2.4GHz Ant 7 | 0.61              |             | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |





| Case              | Band              | Position          | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-------------------|-------------------|-------------------|------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
|                   |                   |                   |            |          | X                      | Y       | Z      |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667      | 0        | -49.46                 | 93.31   | 1.27   | 167.7            | 0.69              | 0.00          | Not required     |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 7  | Bottom Face       | 0.61       | 0        | -30.71                 | -104.9  | -0.62  | 52.7             | 0.63              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 45           | LTE Band 41 Ant 2 | Bottom Face       | 1.257      | 0        | -76.54                 | 4.38    | 2      | 76.1             | 1.91              | 0.03          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.65       | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                   | Bluetooth Ant 6   |                   | 0.007      | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | LTE Band 41 Ant 2 | Bottom Face       | 1.257      | 0        | -76.54                 | 4.38    | 2      | 117.6            | 1.92              | 0.02          | Not required     |
|                   | WLAN5GHz Ant 7    |                   | 0.664      | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                   | LTE Band 41 Ant 2 | Bottom Face       | 1.257      | 0        | -76.54                 | 4.38    | 2      | 106.9            | 1.28              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face       | 0.65       | 0        | -56.13                 | 87.9    | 0.57   | 181.1            | 1.32              | 0.01          | Not required     |
|                   | Bluetooth Ant 6   |                   | 0.007      | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    |                   | 0.664      | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                   | WLAN5GHz Ant 6    | Bottom Face       | 0.65       | 0        | -56.13                 | 87.9    | 0.57   | 153.8            | 0.68              | 0.00          | Not required     |
|                   | Bluetooth Ant 6   |                   | 0.007      | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN5GHz Ant 7    | Bottom Face       | 0.664      | 0        | -26.79                 | -102.14 | 1.4    | 48.1             | 0.69              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | Case 46           | LTE Band 41 Ant 2 | Edge 4     | 0.903    | 0                      | 0.41    | -39.12 | 2.08             | 109.3             | 1.94          | 0.02             |
| WLAN2.4GHz Ant 7  |                   | 0.282             |            | 0        | -1.81                  | 70.14   | 0.53   |                  |                   |               |                  |
| WLAN2.4GHz Ant 6  |                   | 0.758             |            | 0        | 2.65                   | -89.89  | 1.28   |                  |                   |               |                  |
| LTE Band 41 Ant 2 |                   | Edge 4            | 0.903      | 0        | 0.41                   | -39.12  | 2.08   | 56.7             | 1.57              | 0.03          | Not required     |
| Bluetooth Ant 6   | 0.002             |                   | 0          | -3.2     | -95.73                 | 1.65    |        |                  |                   |               |                  |
| WLAN5GHz Ant 6    | Edge 4            | 0.668             | 0          | -4.24    | -99.74                 | -1.26   | 146.2  | 1.08             | 0.01              | Not required  |                  |
| LTE Band 41 Ant 2 |                   | 0.903             | 0          | 0.41     | -39.12                 | 2.08    |        |                  |                   |               |                  |
| WLAN5GHz Ant 7    |                   | 0.181             | 0          | 1.43     | 107.07                 | 1.77    |        |                  |                   |               |                  |
| WLAN5GHz Ant 6    | Edge 4            | 0.668             | 0          | -4.24    | -99.74                 | -1.26   | 202.9  | 0.85             | 0.00              | Not required  |                  |
| Bluetooth Ant 6   |                   | 0.002             | 0          | -3.2     | -95.73                 | 1.65    |        |                  |                   |               |                  |
| WLAN5GHz Ant 7    |                   | 0.181             | 0          | 1.43     | 107.07                 | 1.77    |        |                  |                   |               |                  |
| Case 48           | LTE Band 48 Ant 3 | Bottom Face       | 0.559      | 0        | -37.82                 | -24     | -1.67  | 117.9            | 1.23              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 6  |                   | 0.667      | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                   | LTE Band 48 Ant 3 | Bottom Face       | 0.559      | 0        | -37.82                 | -24     | -1.67  | 81.2             | 1.17              | 0.02          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61       | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | LTE Band 48 Ant 3 | Bottom Face       | 0.559      | 0        | -37.82                 | -24     | -1.67  | 59.1             | 0.58              | 0.01          | Not required     |
|                   | NFC Ant 9         |                   | 0.023      | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  | Bottom Face       | 0.667      | 0        | -49.46                 | 93.31   | 1.27   | 199.1            | 1.28              | 0.01          | Not required     |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61       | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 6  |                   | 0.667      | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                   | NFC Ant 9         | Bottom Face       | 0.023      | 0        | 4.28                   | -65.49  | -1.13  | 167.7            | 0.69              | 0.00          | Not required     |
|                   | WLAN2.4GHz Ant 6  |                   | 0.667      | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                   | WLAN2.4GHz Ant 7  |                   | 0.61       | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
| WLAN2.4GHz Ant 6  | Bottom Face       | 0.667             | 0          | -49.46   | 93.31                  | 1.27    | 167.7  | 0.69             | 0.00              | Not required  |                  |
| NFC Ant 9         |                   | 0.023             | 0          | 4.28     | -65.49                 | -1.13   |        |                  |                   |               |                  |
| WLAN2.4GHz Ant 7  | Bottom Face       | 0.61              | 0          | -30.71   | -104.9                 | -0.62   | 52.7   | 0.63             | 0.01              | Not required  |                  |
| NFC Ant 9         |                   | 0.023             | 0          | 4.28     | -65.49                 | -1.13   |        |                  |                   |               |                  |
| Case 49           | LTE Band 48 Ant 3 | Bottom Face       | 0.559      | 0        | -37.82                 | -24     | -1.67  | 102.2            | 1.22              | 0.01          | Not required     |
|                   | WLAN5GHz Ant 6    |                   | 0.65       | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                   | Bluetooth Ant 6   |                   | 0.007      | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                   | LTE Band 48 Ant 3 | Bottom Face       | 0.559      | 0        | -37.82                 | -24     | -1.67  | 79.0             | 1.22              | 0.02          | Not required     |



|                  |                   |             |            |          |                        |         |       |                  |                   |               |                  |
|------------------|-------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                  | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 59.1             | 0.58              | 0.01          | Not required     |
|                  | LTE Band 48 Ant 3 |             | 0.559      | 0        | -37.82                 | -24     | -1.67 |                  |                   |               |                  |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7    |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | NFC Ant 9         |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7    | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9        | 0.023             |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 50          | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  |                   |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                  | LTE Band 48 Ant 3 | Edge 4      | 1.253      | 0        | -0.32                  | 12.52   | 4     | 102.5            | 2.01              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 6  |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|                  | LTE Band 48 Ant 3 | Edge 4      | 1.253      | 0        | -0.32                  | 12.52   | 4     | 57.7             | 1.54              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 7  |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6  | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
| WLAN2.4GHz Ant 7 | 0.282             |             | 0          | -1.81    | 70.14                  | 0.53    |       |                  |                   |               |                  |
| Case 51          | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  |                   |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                  | LTE Band 48 Ant 3 | Edge 4      | 1.253      | 0        | -0.32                  | 12.52   | 4     | 108.3            | 1.92              | 0.02          | Not required     |
|                  | Bluetooth Ant 6   |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | LTE Band 48 Ant 3 | Edge 4      | 1.253      | 0        | -0.32                  | 12.52   | 4     | 94.6             | 1.43              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 7    |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6    | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
| Bluetooth Ant 6  | 0.002             |             | 0          | -3.2     | -95.73                 | 1.65    |       |                  |                   |               |                  |
| WLAN5GHz Ant 7   | 0.181             |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |

|                  |                  |             |            |          |                        |         |       |                  |                   |               |                  |
|------------------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
| Case 52          | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 169.5            | 1.31              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 39.9             | 1.25              | 0.04          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 63.3             | 0.66              | 0.01          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
| NFC Ant 9        | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| WLAN2.4GHz Ant 7 | Bottom Face      | 0.61        | 0          | -30.71   | -104.9                 | -0.62   | 52.7  | 0.63             | 0.01              | Not required  |                  |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 53          | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 163.9            | 1.29              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 40.7             | 1.30              | 0.04          | Not required     |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | LTE Band 5 Ant 0 | Bottom Face | 0.639      | 0        | -58                    | -76     | 2.33  | 153.0            | 0.65              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
| LTE Band 5 Ant 0 | Bottom Face      | 0.639       | 0          | -58      | -76                    | 2.33    | 63.3  | 0.66             | 0.01              | Not required  |                  |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |



|         |                  |                 |                   |                 |                               |         |       |                         |                          |                      |                         |
|---------|------------------|-----------------|-------------------|-----------------|-------------------------------|---------|-------|-------------------------|--------------------------|----------------------|-------------------------|
|         | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9    | 0.57  | 192.3                   | 1.31                     | 0.01                 | Not required            |
|         | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14 | 1.4   |                         |                          |                      |                         |
|         | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9    | 0.57  | 164.9                   | 0.67                     | 0.00                 | Not required            |
|         | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49  | -1.13 |                         |                          |                      |                         |
|         | WLAN5GHz Ant 7   | Bottom Face     | 0.664             | 0               | -26.79                        | -102.14 | 1.4   | 181.1                   | 0.67                     | 0.00                 | Not required            |
|         | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93   | -0.34 |                         |                          |                      |                         |
|         | WLAN5GHz Ant 7   | Bottom Face     | 0.664             | 0               | -26.79                        | -102.14 | 1.4   | 48.1                    | 0.69                     | 0.01                 | Not required            |
|         | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49  | -1.13 |                         |                          |                      |                         |
|         | Bluetooth Ant 6  | Bottom Face     | 0.007             | 0               | -53.72                        | 76.93   | -0.34 | 153.8                   | 0.03                     | 0.00                 | Not required            |
|         | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49  | -1.13 |                         |                          |                      |                         |
| Case 54 | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |         |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE Band 5 Ant 0 | Edge 4          | 0.669             | 0               | 0.69                          | 44      | -0.2  | 133.9                   | 1.43                     | 0.01                 | Not required            |
|         | WLAN2.4GHz Ant 6 |                 | 0.758             | 0               | 2.65                          | -89.89  | 1.28  |                         |                          |                      |                         |
|         | LTE Band 5 Ant 0 | Edge 4          | 0.669             | 0               | 0.69                          | 44      | -0.2  | 26.3                    | 0.95                     | 0.04                 | Not required            |
|         | WLAN2.4GHz Ant 7 |                 | 0.282             | 0               | -1.81                         | 70.14   | 0.53  |                         |                          |                      |                         |
|         | WLAN2.4GHz Ant 6 | Edge 4          | 0.758             | 0               | 2.65                          | -89.89  | 1.28  | 160.1                   | 1.04                     | 0.01                 | Not required            |
|         | WLAN2.4GHz Ant 7 |                 | 0.282             | 0               | -1.81                         | 70.14   | 0.53  |                         |                          |                      |                         |



<5G NR>

|        | Band             | Position    | SAR (W/kg) | Gap  | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|------------------|-------------|------------|------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|        |                  |             |            | (mm) | X                      | Y       | Z     |                  |                   |               |                  |
| Case 1 | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 164.4            | 1.32              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 6 |             | 0.667      | 0    | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|        | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 50.1             | 1.26              | 0.03          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 71.2             | 0.67              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0    | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0    | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 2 | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 147.6            | 1.31              | 0.01          | Not required     |
|        | WLAN5GHz Ant 6   |             | 0.65       | 0    | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|        | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 51.2             | 1.31              | 0.03          | Not required     |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0    | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | FR1 n12 Ant 0    | Bottom Face | 0.649      | 0    | -66.72                 | -70.14  | 0.77  | 71.2             | 0.67              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0    | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0    | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0    | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0    | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0    | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 3 | FR1 n12 Ant 0    | Edge 4      | 1.059      | 0    | -0.98                  | 47.14   | 4.04  | 137.1            | 2.10              | 0.02          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.282      | 0    | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 |             | 0.758      | 0    | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 4 | FR1 n12 Ant 0    | Edge 4      | 1.059      | 0    | -0.98                  | 47.14   | 4.04  | 142.9            | 1.73              | 0.02          | Not required     |
|        | Bluetooth Ant 6  |             | 0.002      | 0    | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   |             | 0.668      | 0    | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|        | FR1 n12 Ant 0    | Edge 4      | 1.059      | 0    | -0.98                  | 47.14   | 4.04  | 60.0             | 1.24              | 0.02          | Not required     |
|        | WLAN5GHz Ant 7   |             | 0.181      | 0    | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Edge 4      | 0.668      | 0    | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|        | Bluetooth Ant 6  |             | 0.002      | 0    | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   |             | 0.181      | 0    | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
| Case 5 | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0    | -61.94                 | -70.29  | 2.11  | 164.1            | 1.34              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 6 |             | 0.667      | 0    | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|        | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0    | -61.94                 | -70.29  | 2.11  | 46.7             | 1.28              | 0.03          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0    | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0    | -61.94                 | -70.29  | 2.11  | 66.5             | 0.70              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0    | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |



|        | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|        |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 6 | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0        | -61.94                 | -70.29  | 2.11  | 147.5            | 1.33              | 0.01          | Not required     |
|        | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0        | -61.94                 | -70.29  | 2.11  | 47.4             | 1.34              | 0.03          | Not required     |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | FR1 n13 Ant 0    | Bottom Face | 0.673      | 0        | -61.94                 | -70.29  | 2.11  | 66.5             | 0.70              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 7 | FR1 n13 Ant 0    | Edge 4      | 0.696      | 0        | -1.2                   | 47.49   | 3.39  | 137.5            | 1.74              | 0.02          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 8 | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 168.6            | 1.34              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 6 |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|        | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 43.3             | 1.29              | 0.03          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 66.8             | 0.70              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|        | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 9 | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 152.0            | 1.33              | 0.01          | Not required     |
|        | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 44.4             | 1.34              | 0.03          | Not required     |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | FR1 n14 Ant 0    | Bottom Face | 0.675      | 0        | -61.81                 | -74.81  | 0.3   | 66.8             | 0.70              | 0.01          | Not required     |
|        | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|        | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|        | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|        | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |



| Case           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |
|                | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 10        | FR1 n14 Ant 0    | Edge 4      | 0.743      | 0        | 1.02                   | 51.91   | 1.48  | 141.8            | 1.78              | 0.02          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 11        | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 164.1            | 1.34              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 6 |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 49.0             | 1.28              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 69.5             | 0.69              | 0.01          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9      | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 12        | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 147.4            | 1.33              | 0.01          | Not required     |
|                | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 50.1             | 1.33              | 0.03          | Not required     |
|                | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n71 Ant 0    | Bottom Face | 0.669      | 0        | -65.07                 | -70.02  | -2.11 | 69.5             | 0.69              | 0.01          | Not required     |
|                | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |
| WLAN5GHz Ant 7 | 0.664            |             | 0          | -26.79   | -102.14                | 1.4     |       |                  |                   |               |                  |
| NFC Ant 9      | 0.023            |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 13        | FR1 n71 Ant 0    | Edge 4      | 0.89       | 0        | 2.44                   | 54.07   | 0.89  | 144.0            | 1.93              | 0.02          | Not required     |
|                | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 14        | FR1 n71 Ant 0    | Edge 4      | 0.89       | 0        | 2.44                   | 54.07   | 0.89  | 149.9            | 1.56              | 0.01          | Not required     |
|                | Bluetooth Ant 6  |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                | FR1 n71 Ant 0    | Edge 4      | 0.89       | 0        | 2.44                   | 54.07   | 0.89  | 53.0             | 1.07              | 0.02          | Not required     |
|                | WLAN5GHz Ant 7   |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6   | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                | Bluetooth Ant 6  |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
| WLAN5GHz Ant 7 | 0.181            |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |
| Case 15        | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |





|                  |                  |                 |                   |                 |                               |          |          |                         |                          |                      |                         |
|------------------|------------------|-----------------|-------------------|-----------------|-------------------------------|----------|----------|-------------------------|--------------------------|----------------------|-------------------------|
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 168.0                   | 1.30                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 6 |                 | 0.667             | 0               | -49.46                        | 93.31    | 1.27     |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 47.4                    | 1.25                     | 0.03                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 71.3                    | 0.66                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 199.1                   | 1.28                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 167.7                   | 0.69                     | 0.00                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 7 | Bottom Face     | 0.61              | 0               | -30.71                        | -104.9   | -0.62    | 52.7                    | 0.63                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
| Case 16          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 151.3                   | 1.29                     | 0.01                 | Not required            |
|                  | WLAN5GHz Ant 6   |                 | 0.65              | 0               | -56.13                        | 87.9     | 0.57     |                         |                          |                      |                         |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 48.7                    | 1.30                     | 0.03                 | Not required            |
|                  | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14  | 1.4      |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Bottom Face     | 0.637             | 0               | -66.45                        | -73.81   | 1.8      | 71.3                    | 0.66                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9     | 0.57     | 181.1                   | 1.32                     | 0.01                 | Not required            |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14  | 1.4      |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9     | 0.57     | 153.8                   | 0.68                     | 0.00                 | Not required            |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
| NFC Ant 9        | 0.023            |                 | 0                 | 4.28            | -65.49                        | -1.13    |          |                         |                          |                      |                         |
| WLAN5GHz Ant 7   | Bottom Face      | 0.664           | 0                 | -26.79          | -102.14                       | 1.4      | 48.1     | 0.69                    | 0.01                     | Not required         |                         |
| NFC Ant 9        |                  | 0.023           | 0                 | 4.28            | -65.49                        | -1.13    |          |                         |                          |                      |                         |
| Case 17          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Edge 4          | 0.571             | 0               | -0.45                         | 43.93    | -1.24    | 133.9                   | 1.33                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 6 |                 | 0.758             | 0               | 2.65                          | -89.89   | 1.28     |                         |                          |                      |                         |
|                  | FR1 n5 Ant 0     | Edge 4          | 0.571             | 0               | -0.45                         | 43.93    | -1.24    | 26.3                    | 0.85                     | 0.03                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.282             | 0               | -1.81                         | 70.14    | 0.53     |                         |                          |                      |                         |
| WLAN2.4GHz Ant 6 | Edge 4           | 0.758           | 0                 | 2.65            | -89.89                        | 1.28     | 160.1    | 1.04                    | 0.01                     | Not required         |                         |
| WLAN2.4GHz Ant 7 |                  | 0.282           | 0                 | -1.81           | 70.14                         | 0.53     |          |                         |                          |                      |                         |
| Case 18          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 93.0                    | 1.93                     | 0.03                 | Not required            |
|                  | WLAN2.4GHz Ant 6 |                 | 0.667             | 0               | -49.46                        | 93.31    | 1.27     |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 115.6                   | 1.87                     | 0.02                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 102.6                   | 1.28                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 199.1                   | 1.28                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 167.7                   | 0.69                     | 0.00                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
| WLAN2.4GHz Ant 7 | Bottom Face      | 0.61            | 0                 | -30.71          | -104.9                        | -0.62    | 52.7     | 0.63                    | 0.01                     | Not required         |                         |
| NFC Ant 9        |                  | 0.023           | 0                 | 4.28            | -65.49                        | -1.13    |          |                         |                          |                      |                         |
| Case 19          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 76.1                    | 1.92                     | 0.03                 | Not required            |
| WLAN5GHz Ant 6   | 0.65             |                 | 0                 | -56.13          | 87.9                          | 0.57     |          |                         |                          |                      |                         |
| Bluetooth Ant 6  | 0.007            |                 | 0                 | -53.72          | 76.93                         | -0.34    |          |                         |                          |                      |                         |





|                  |                  |                 |                   |                 |                               |          |          |                         |                          |                      |                         |
|------------------|------------------|-----------------|-------------------|-----------------|-------------------------------|----------|----------|-------------------------|--------------------------|----------------------|-------------------------|
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 114.5                   | 1.92                     | 0.02                 | Not required            |
|                  | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14  | 1.4      |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Bottom Face     | 1.258             | 0               | -72                           | 3.04     | 0.21     | 102.6                   | 1.28                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9     | 0.57     | 181.1                   | 1.32                     | 0.01                 | Not required            |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14  | 1.4      |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9     | 0.57     | 153.8                   | 0.68                     | 0.00                 | Not required            |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 7   | Bottom Face     | 0.664             | 0               | -26.79                        | -102.14  | 1.4      | 48.1                    | 0.69                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
| Case 20          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Edge 4          | 0.766             | 0               | -6                            | 2        | 0.11     | 92.3                    | 1.52                     | 0.02                 | Not required            |
|                  | WLAN2.4GHz Ant 6 |                 | 0.758             | 0               | 2.65                          | -89.89   | 1.28     |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Edge 4          | 0.766             | 0               | -6                            | 2        | 0.11     | 68.3                    | 1.05                     | 0.02                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.282             | 0               | -1.81                         | 70.14    | 0.53     |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Edge 4          | 0.758             | 0               | 2.65                          | -89.89   | 1.28     | 160.1                   | 1.04                     | 0.01                 | Not required            |
| WLAN2.4GHz Ant 7 | 0.282            |                 | 0                 | -1.81           | 70.14                         | 0.53     |          |                         |                          |                      |                         |
| Case 21          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Edge 4          | 0.766             | 0               | -6                            | 2        | 0.11     | 97.8                    | 1.44                     | 0.02                 | Not required            |
|                  | Bluetooth Ant 6  |                 | 0.002             | 0               | -3.2                          | -95.73   | 1.65     |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   |                 | 0.668             | 0               | -4.24                         | -99.74   | -1.26    |                         |                          |                      |                         |
|                  | FR1 n5 Ant 2     | Edge 4          | 0.766             | 0               | -6                            | 2        | 0.11     | 105.3                   | 0.95                     | 0.01                 | Not required            |
|                  | WLAN5GHz Ant 7   |                 | 0.181             | 0               | 1.43                          | 107.07   | 1.77     |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Edge 4          | 0.668             | 0               | -4.24                         | -99.74   | -1.26    | 202.9                   | 0.85                     | 0.00                 | Not required            |
| Bluetooth Ant 6  | 0.002            |                 | 0                 | -3.2            | -95.73                        | 1.65     |          |                         |                          |                      |                         |
| WLAN5GHz Ant 7   | 0.181            |                 | 0                 | 1.43            | 107.07                        | 1.77     |          |                         |                          |                      |                         |
| Case 22          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 165.2                   | 1.36                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 6 |                 | 0.667             | 0               | -49.46                        | 93.31    | 1.27     |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 45.2                    | 1.30                     | 0.03                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 65.7                    | 0.71                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 199.1                   | 1.28                     | 0.01                 | Not required            |
|                  | WLAN2.4GHz Ant 7 |                 | 0.61              | 0               | -30.71                        | -104.9   | -0.62    |                         |                          |                      |                         |
|                  | WLAN2.4GHz Ant 6 | Bottom Face     | 0.667             | 0               | -49.46                        | 93.31    | 1.27     | 167.7                   | 0.69                     | 0.00                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
| WLAN2.4GHz Ant 7 | Bottom Face      | 0.61            | 0                 | -30.71          | -104.9                        | -0.62    | 52.7     | 0.63                    | 0.01                     | Not required         |                         |
| NFC Ant 9        |                  | 0.023           | 0                 | 4.28            | -65.49                        | -1.13    |          |                         |                          |                      |                         |
| Case 23          | <b>Band</b>      | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                  |                  |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 148.6                   | 1.35                     | 0.01                 | Not required            |
|                  | WLAN5GHz Ant 6   |                 | 0.65              | 0               | -56.13                        | 87.9     | 0.57     |                         |                          |                      |                         |
|                  | Bluetooth Ant 6  |                 | 0.007             | 0               | -53.72                        | 76.93    | -0.34    |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 46.0                    | 1.35                     | 0.03                 | Not required            |
|                  | WLAN5GHz Ant 7   |                 | 0.664             | 0               | -26.79                        | -102.14  | 1.4      |                         |                          |                      |                         |
|                  | FR1 n66 Ant 0    | Bottom Face     | 0.688             | 0               | -61.11                        | -71.48   | 1.46     | 65.7                    | 0.71                     | 0.01                 | Not required            |
|                  | NFC Ant 9        |                 | 0.023             | 0               | 4.28                          | -65.49   | -1.13    |                         |                          |                      |                         |
|                  | WLAN5GHz Ant 6   | Bottom Face     | 0.65              | 0               | -56.13                        | 87.9     | 0.57     | 181.1                   | 1.32                     | 0.01                 | Not required            |
| Bluetooth Ant 6  | 0.007            |                 | 0                 | -53.72          | 76.93                         | -0.34    |          |                         |                          |                      |                         |
| WLAN5GHz Ant 7   | 0.664            |                 | 0                 | -26.79          | -102.14                       | 1.4      |          |                         |                          |                      |                         |



| Case            | Band             | Position      | SAR (W/kg)  | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |              |      |      |              |
|-----------------|------------------|---------------|-------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|--------------|------|------|--------------|
|                 |                  |               |             |          | X                      | Y       | Z     |                  |                   |               |                  |              |      |      |              |
|                 | WLAN5GHz Ant 6   | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |              |      |      |              |
|                 | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |              |      |      |              |
|                 | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
|                 | WLAN5GHz Ant 7   | Bottom Face   | 0.664       | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  | 48.1         | 0.69 | 0.01 | Not required |
|                 | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
| Case 24         | FR1 n66 Ant 0    | Edge 4        | 0.637       | 0        | 1.77                   | 73.62   | 0.04  | 160.1            | 1.68              | 0.01          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 |               | 0.282       | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 |               | 0.758       | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |              |      |      |              |
|                 |                  |               |             |          |                        |         |       |                  |                   |               |                  |              |      |      |              |
| Case 25         | FR1 n66 Ant 2    | Bottom Face   | 1.254       | 0        | -74.6                  | 4.06    | 1.31  | 92.7             | 1.92              | 0.03          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 |               | 0.667       | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |              |      |      |              |
|                 | FR1 n66 Ant 2    | Bottom Face   | 1.254       | 0        | -74.6                  | 4.06    | 1.31  | 117.5            | 1.86              | 0.02          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 |               | 0.61        | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |              |      |      |              |
|                 | FR1 n66 Ant 2    | Bottom Face   | 1.254       | 0        | -74.6                  | 4.06    | 1.31  | 105.2            | 1.28              | 0.01          | Not required     |              |      |      |              |
|                 | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 | Bottom Face   | 0.667       | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 |               | 0.61        | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 | Bottom Face   | 0.667       | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |              |      |      |              |
|                 | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 | Bottom Face   | 0.61        | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |              |      |      |              |
|                 | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
|                 | Case 26          | FR1 n66 Ant 2 | Bottom Face | 1.254    | 0                      | -74.6   | 4.06  | 1.31             | 75.8              | 1.91          | 0.03             | Not required |      |      |              |
| WLAN5GHz Ant 6  |                  | 0.65          |             | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |              |      |      |              |
| Bluetooth Ant 6 |                  | 0.007         |             | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |              |      |      |              |
| FR1 n66 Ant 2   |                  | Bottom Face   | 1.254       | 0        | -74.6                  | 4.06    | 1.31  | 116.5            | 1.92              | 0.02          | Not required     |              |      |      |              |
| WLAN5GHz Ant 7  |                  |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |              |      |      |              |
| FR1 n66 Ant 2   |                  | Bottom Face   | 1.254       | 0        | -74.6                  | 4.06    | 1.31  | 105.2            | 1.28              | 0.01          | Not required     |              |      |      |              |
| NFC Ant 9       |                  |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
| WLAN5GHz Ant 6  |                  | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |              |      |      |              |
| Bluetooth Ant 6 |                  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |              |      |      |              |
| WLAN5GHz Ant 7  |                  |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |              |      |      |              |
| WLAN5GHz Ant 6  |                  | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |              |      |      |              |
| Bluetooth Ant 6 |                  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |              |      |      |              |
| NFC Ant 9       |                  |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |              |      |      |              |
| WLAN5GHz Ant 7  |                  | Bottom Face   | 0.664       | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |              |      |      |              |
| NFC Ant 9       | 0.023            |               | 0           | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |              |      |      |              |
| Case 27         | FR1 n66 Ant 2    | Edge 4        | 0.769       | 0        | -2                     | -22     | 0.34  | 68.1             | 1.53              | 0.03          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 |               | 0.758       | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |              |      |      |              |
|                 | FR1 n66 Ant 2    | Edge 4        | 0.769       | 0        | -2                     | -22     | 0.34  | 92.1             | 1.05              | 0.01          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 |               | 0.282       | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |              |      |      |              |
|                 | WLAN2.4GHz Ant 6 | Edge 4        | 0.758       | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |              |      |      |              |
|                 | WLAN2.4GHz Ant 7 |               | 0.282       | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |              |      |      |              |
| Case 28         | FR1 n66 Ant 2    | Edge 4        | 0.769       | 0        | -2                     | -22     | 0.34  | 73.8             | 1.44              | 0.02          | Not required     |              |      |      |              |
|                 | Bluetooth Ant 6  |               | 0.002       | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |              |      |      |              |
|                 | WLAN5GHz Ant 6   |               | 0.668       | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |              |      |      |              |
|                 | FR1 n66 Ant 2    | Edge 4        | 0.769       | 0        | -2                     | -22     | 0.34  | 129.1            | 0.95              | 0.01          | Not required     |              |      |      |              |
|                 | WLAN5GHz Ant 7   |               | 0.181       | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |              |      |      |              |



| Case      | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|           |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|           | WLAN5GHz Ant 6   | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|           | Bluetooth Ant 6  |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|           | WLAN5GHz Ant 7   |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
| Case 29   | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 162.2            | 1.32              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 6 | 0.667       | 0          | -49.46   | 93.31                  | 1.27    |       |                  |                   |               |                  |
|           | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 46.6             | 1.27              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 7 | 0.61        | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |
|           | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 64.3             | 0.68              | 0.01          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7 | 0.61        | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 30   | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 145.6            | 1.31              | 0.01          | Not required     |
|           | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 47.2             | 1.32              | 0.03          | Not required     |
|           | WLAN5GHz Ant 7   | 0.664       | 0          | -26.79   | -102.14                | 1.4     |       |                  |                   |               |                  |
|           | FR1 n25 Ant 0    | Bottom Face | 0.657      | 0        | -59.92                 | -68.55  | -0.96 | 64.3             | 0.68              | 0.01          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
|           | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 31   | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 91.4             | 1.90              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 6 | 0.667       | 0          | -49.46   | 93.31                  | 1.27    |       |                  |                   |               |                  |
|           | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 122.5            | 1.85              | 0.02          | Not required     |
|           | WLAN2.4GHz Ant 7 | 0.61        | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |
|           | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 111.4            | 1.26              | 0.01          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7 | 0.61        | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9        | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7 | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9 | 0.023            | 0           | 4.28       | -65.49   | -1.13                  |         |       |                  |                   |               |                  |
| Case 32   | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 74.5             | 1.89              | 0.03          | Not required     |
|           | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 121.7            | 1.90              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7   | 0.664       | 0          | -26.79   | -102.14                | 1.4     |       |                  |                   |               |                  |
|           | FR1 n25 Ant 2    | Bottom Face | 1.236      | 0        | -80.06                 | 7.25    | -1.2  | 111.4            | 1.26              | 0.01          | Not required     |



| Case             | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |       |      |      |              |
|------------------|------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|-------|------|------|--------------|
|                  |                  |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |       |      |      |              |
| Case 33          | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 181.1            | 1.32              | 0.01          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |       |      |      |              |
|                  | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 153.8            | 0.68              | 0.00          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |       |      |      |              |
|                  | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |       |      |      |              |
|                  | NFC Ant 9        |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |       |      |      |              |
| Case 34          | FR1 n25 Ant 2    | Edge 4      | 1.063      | 0        | -5.76                  | -21.35  | 1.41  | 91.6             | 2.10              | 0.03          | Not required     |       |      |      |              |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |       |      |      |              |
|                  | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  | Edge 4      | 0.002      | 0        | -3.2                   | -95.73  | 1.65  | 74.4             | 1.73              | 0.03          | Not required     |       |      |      |              |
| WLAN5GHz Ant 6   | 0.668            |             | 0          | -4.24    | -99.74                 | -1.26   |       |                  |                   |               |                  |       |      |      |              |
| FR1 n25 Ant 2    | 1.063            |             | 0          | -5.76    | -21.35                 | 1.41    |       |                  |                   |               |                  |       |      |      |              |
| WLAN5GHz Ant 7   | Edge 4           | 0.181       | 0          | 1.43     | 107.07                 | 1.77    | 128.6 | 1.24             | 0.01              | Not required  |                  |       |      |      |              |
| WLAN5GHz Ant 6   |                  | 0.668       | 0          | -4.24    | -99.74                 | -1.26   |       |                  |                   |               |                  |       |      |      |              |
| Bluetooth Ant 6  |                  | 0.002       | 0          | -3.2     | -95.73                 | 1.65    |       |                  |                   |               |                  |       |      |      |              |
| WLAN5GHz Ant 7   | Edge 4           | 0.181       | 0          | 1.43     | 107.07                 | 1.77    | 202.9 | 0.85             | 0.00              | Not required  |                  |       |      |      |              |
| FR1 n7 Ant 0     |                  | Bottom Face | 0.566      | 0        | -62.13                 | -84.26  |       |                  |                   |               | 0.25             | 178.0 | 1.84 | 0.01 | Not required |
| WLAN2.4GHz Ant 7 |                  |             | 0.61       | 0        | -30.71                 | -104.9  |       |                  |                   |               | -0.62            |       |      |      |              |
| WLAN2.4GHz Ant 6 | 0.667            |             | 0          | -49.46   | 93.31                  | 1.27    |       |                  |                   |               |                  |       |      |      |              |
| FR1 n7 Ant 0     | Bottom Face      | 0.566       | 0          | -62.13   | -84.26                 | 0.25    | 52.7  | 0.59             | 0.01              | Not required  |                  |       |      |      |              |
| WLAN2.4GHz Ant 7 |                  | 0.61        | 0          | -30.71   | -104.9                 | -0.62   |       |                  |                   |               |                  |       |      |      |              |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |       |      |      |              |
| WLAN2.4GHz Ant 6 | Bottom Face      | 0.667       | 0          | -49.46   | 93.31                  | 1.27    | 167.7 | 0.69             | 0.00              | Not required  |                  |       |      |      |              |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |       |      |      |              |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |       |      |      |              |
| Case 35          | FR1 n7 Ant 0     | Bottom Face | 0.566      | 0        | -62.13                 | -84.26  | 0.25  | 161.4            | 1.22              | 0.01          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |       |      |      |              |
|                  | FR1 n7 Ant 0     | Bottom Face | 0.566      | 0        | -62.13                 | -84.26  | 0.25  | 39.6             | 1.23              | 0.03          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |       |      |      |              |
|                  | FR1 n7 Ant 0     |             | 0.566      | 0        | -62.13                 | -84.26  | 0.25  |                  |                   |               |                  |       |      |      |              |
|                  | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 69.0             | 0.59              | 0.01          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |       |      |      |              |
|                  | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 181.1            | 1.32              | 0.01          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
|                  | Bluetooth Ant 6  |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |       |      |      |              |
|                  | NFC Ant 9        | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 153.8            | 0.68              | 0.00          | Not required     |       |      |      |              |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |       |      |      |              |
| Bluetooth Ant 6  | 0.007            |             | 0          | -53.72   | 76.93                  | -0.34   |       |                  |                   |               |                  |       |      |      |              |
| WLAN5GHz Ant 7   | Bottom Face      | 0.664       | 0          | -26.79   | -102.14                | 1.4     | 48.1  | 0.69             | 0.01              | Not required  |                  |       |      |      |              |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |       |      |      |              |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |       |      |      |              |
| Case 36          | FR1 n7 Ant 0     | Edge 4      | 0.669      | 0        | -1.11                  | 50.46   | 0.69  | 140.4            | 1.71              | 0.02          | Not required     |       |      |      |              |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |       |      |      |              |
|                  | WLAN2.4GHz Ant 6 |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |       |      |      |              |



|                  | Band             | Position    | SAR (W/kg) | Gap    | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|------------------|-------------|------------|--------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                  |                  |             |            | (mm)   | X                      | Y       | Z     |                  |                   |               |                  |
| Case 38          | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 94.6             | 1.77              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.667      | 0      | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 118.8            | 1.71              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 108.5            | 1.12              | 0.01          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0      | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Bottom Face | 0.667      | 0      | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN2.4GHz Ant 7 | Bottom Face      | 0.61        | 0          | -30.71 | -104.9                 | -0.62   | 52.7  | 0.63             | 0.01              | Not required  |                  |
| NFC Ant 9        |                  | 0.023       | 0          | 4.28   | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 39          | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 77.8             | 1.76              | 0.03          | Not required     |
|                  | WLAN5GHz Ant 6   |             | 0.65       | 0      | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                  | Bluetooth Ant 6  |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 118.0            | 1.76              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0      | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Bottom Face | 1.1        | 0      | -79.33                 | 3.51    | 2.04  | 108.5            | 1.12              | 0.01          | Not required     |
|                  | NFC Ant 9        |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0      | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   |             | 0.664      | 0      | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face | 0.65       | 0      | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | NFC Ant 9        |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   | Bottom Face | 0.664      | 0      | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9        | 0.023            |             | 0          | 4.28   | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 40          | FR1 n7 Ant 2     | Edge 4      | 0.842      | 0      | -2.85                  | -31.35  | 1.52  | 58.8             | 1.60              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.758      | 0      | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Edge 4      | 0.842      | 0      | -2.85                  | -31.35  | 1.52  | 101.5            | 1.12              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0      | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6 | Edge 4      | 0.758      | 0      | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.282      | 0      | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
| Case 41          | FR1 n7 Ant 2     | Edge 4      | 0.842      | 0      | -2.85                  | -31.35  | 1.52  | 64.4             | 1.51              | 0.03          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.002      | 0      | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   |             | 0.668      | 0      | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | FR1 n7 Ant 2     | Edge 4      | 0.842      | 0      | -2.85                  | -31.35  | 1.52  | 138.5            | 1.02              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 7   |             | 0.181      | 0      | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Edge 4      | 0.668      | 0      | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |             | 0.002      | 0      | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   |             | 0.181      | 0      | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
| Case 42          | FR1 n41 Ant 1    | Bottom Face | 0.606      | 0      | 57.46                  | 30.55   | 1.24  | 124.0            | 1.27              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 6 |             | 0.667      | 0      | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | FR1 n41 Ant 1    | Bottom Face | 0.606      | 0      | 57.46                  | 30.55   | 1.24  | 161.6            | 1.22              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7 |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | FR1 n41 Ant 1    | Bottom Face | 0.606      | 0      | 57.46                  | 30.55   | 1.24  | 109.8            | 0.63              | 0.00          | Not required     |



| Case      | Band               | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------|--------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|           |                    |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|           | NFC Ant 9          | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 6   |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7   | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 167.7            | 0.69              | 0.00          | Not required     |
|           | WLAN2.4GHz Ant 6   |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | NFC Ant 9          | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 52.7             | 0.63              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
| NFC Ant 9 | 0.023              | 0           | 4.28       | -65.49   | -1.13                  |         |       |                  |                   |               |                  |
| Case 43   | FR1 n41 Ant 1      | Bottom Face | 0.606      | 0        | 57.46                  | 30.55   | 1.24  | 120.5            | 1.26              | 0.01          | Not required     |
|           | WLAN5GHz Ant 6     |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | FR1 n41 Ant 1      | Bottom Face | 0.606      | 0        | 57.46                  | 30.55   | 1.24  | 157.2            | 1.27              | 0.01          | Not required     |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | FR1 n41 Ant 1      | Bottom Face | 0.606      | 0        | 57.46                  | 30.55   | 1.24  | 109.8            | 0.63              | 0.00          | Not required     |
|           | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9          | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 44   | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 94.0             | 1.92              | 0.03          | Not required     |
|           | WLAN2.4GHz Ant 6   |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|           | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 118.3            | 1.86              | 0.02          | Not required     |
|           | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 107.3            | 1.27              | 0.01          | Not required     |
|           | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6   | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|           | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 6   | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|           | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN2.4GHz Ant 7   | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9 | 0.023              |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 45   | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 77.1             | 1.91              | 0.03          | Not required     |
|           | WLAN5GHz Ant 6     |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 117.4            | 1.91              | 0.02          | Not required     |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | FR1 n41 HPUE Ant 2 | Bottom Face | 1.25       | 0        | -77.71                 | 3.66    | 0.32  | 107.3            | 1.27              | 0.01          | Not required     |
|           | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|           | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|           | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|           | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|           | NFC Ant 9          | Bottom Face | 0.023      | 0        | 4.28                   | -65.49  | -1.13 | 48.1             | 0.69              | 0.01          | Not required     |
|           | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
| NFC Ant 9 | 0.023              |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case      | Band               | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D               | Summed            | SPLSR         | Simultaneous     |





| Case             | Band               | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|--------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                  |                    |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
| 46               | FR1 n41 HPUE Ant 2 | Edge 4      | 0.851      | 0        | 3.38                   | -42.23  | 2.38  | 112.5            | 1.89              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 7   |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6   |             | 0.758      | 0        | 2.65                   | -89.89  | 1.28  |                  |                   |               |                  |
| Case 47          | FR1 n41 HPUE Ant 2 | Edge 4      | 0.851      | 0        | 3.38                   | -42.23  | 2.38  | 53.9             | 1.52              | 0.03          | Not required     |
|                  | Bluetooth Ant 6    |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6     |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | FR1 n41 HPUE Ant 2 | Edge 4      | 0.851      | 0        | 3.38                   | -42.23  | 2.38  | 149.3            | 1.03              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 7     |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6     |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                  | Bluetooth Ant 6    | Edge 4      | 0.002      | 0        | -3.2                   | -95.73  | 1.65  | 202.9            | 0.85              | 0.00          | Not required     |
| WLAN5GHz Ant 7   | 0.181              |             | 0          | 1.43     | 107.07                 | 1.77    |       |                  |                   |               |                  |
| Case 48          | FR1 n41 Ant 4      | Bottom Face | 1.241      | 0        | 21.22                  | 71.4    | 1.32  | 183.8            | 2.52              | 0.02          | Not required     |
|                  | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6   |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | FR1 n41 Ant 4      | Bottom Face | 1.241      | 0        | 21.22                  | 71.4    | 1.32  | 52.7             | 1.26              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 6   | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
| NFC Ant 9        | 0.023              |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 49          | FR1 n41 Ant 4      | Bottom Face | 1.241      | 0        | 21.22                  | 71.4    | 1.32  | 75.2             | 1.90              | 0.03          | Not required     |
|                  | WLAN5GHz Ant 6     |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                  | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | FR1 n41 Ant 4      | Bottom Face | 1.241      | 0        | 21.22                  | 71.4    | 1.32  | 180.1            | 1.91              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | FR1 n41 Ant 4      | Bottom Face | 1.241      | 0        | 21.22                  | 71.4    | 1.32  | 138.0            | 1.26              | 0.01          | Not required     |
|                  | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7     |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6     | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6    |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                  | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN5GHz Ant 7   | Bottom Face        | 0.664       | 0          | -26.79   | -102.14                | 1.4     | 48.1  | 0.69             | 0.01              | Not required  |                  |
| NFC Ant 9        |                    | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 50          | FR1 n41 Ant 4      | Edge 3      | 0.835      | 0        | -11.33                 | -50.02  | 2.01  | 105.9            | 2.06              | 0.03          | Not required     |
|                  | Bluetooth Ant 6    |             | 0.002      | 0        | -0.13                  | 56.49   | 1.24  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6     |             | 1.225      | 0        | -7.42                  | 55.83   | 1.69  |                  |                   |               |                  |
| Case 51          | FR1 n41 Ant 5      | Bottom Face | 0.553      | 0        | -3.39                  | 91.19   | 1.74  | 46.1             | 1.22              | 0.03          | Not required     |
|                  | WLAN2.4GHz Ant 6   |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                  | FR1 n41 Ant 5      | Bottom Face | 0.553      | 0        | -3.39                  | 91.19   | 1.74  | 198.0            | 1.16              | 0.01          | Not required     |
|                  | WLAN2.4GHz Ant 7   |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                  | FR1 n41 Ant 5      | Bottom Face | 0.553      | 0        | -3.39                  | 91.19   | 1.74  | 156.9            | 0.58              | 0.00          | Not required     |
|                  | NFC Ant 9          |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN2.4GHz Ant 6 | Bottom Face        | 0.667       | 0          | -49.46   | 93.31                  | 1.27    | 199.1 | 1.28             | 0.01              | Not required  |                  |





| Case             | Band             | Position      | SAR (W/kg)  | Gap (mm) | SAR peak location (mm) |         |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|------------------|---------------|-------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
|                  |                  |               |             |          | X                      | Y       | Z      |                  |                   |               |                  |
|                  | WLAN2.4GHz Ant 7 | Bottom Face   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  | 167.7            | 0.69              | 0.00          | Not required     |
|                  | WLAN2.4GHz Ant 6 |               | 0.667       | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
|                  | NFC Ant 9        | 0.023         | 0           | 4.28     | -65.49                 | -1.13   | 52.7   | 0.63             | 0.01              | Not required  |                  |
|                  | WLAN2.4GHz Ant 7 | 0.61          | 0           | -30.71   | -104.9                 | -0.62   |        |                  |                   |               |                  |
| NFC Ant 9        | 0.023            | 0             | 4.28        | -65.49   | -1.13                  |         |        |                  |                   |               |                  |
| Case 52          | FR1 n41 Ant 5    | Bottom Face   | 0.553       | 0        | -3.39                  | 91.19   | 1.74   | 52.4             | 1.21              | 0.03          | Not required     |
|                  | WLAN5GHz Ant 6   |               | 0.65        | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | FR1 n41 Ant 5    | Bottom Face   | 0.553       | 0        | -3.39                  | 91.19   | 1.74   | 194.7            | 1.22              | 0.01          | Not required     |
|                  | WLAN5GHz Ant 7   |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                  | FR1 n41 Ant 5    | Bottom Face   | 0.553       | 0        | -3.39                  | 91.19   | 1.74   | 156.9            | 0.58              | 0.00          | Not required     |
|                  | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   | Bottom Face   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    | 48.1             | 0.69              | 0.01          | Not required     |
|                  | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                  | Case 53          | FR1 n48 Ant 3 | Bottom Face | 0.771    | 0                      | -37.37  | -22.46 | -0.76            | 116.4             | 1.44          | 0.01             |
| WLAN2.4GHz Ant 6 |                  | 0.667         |             | 0        | -49.46                 | 93.31   | 1.27   |                  |                   |               |                  |
| FR1 n48 Ant 3    |                  | Bottom Face   | 0.771       | 0        | -37.37                 | -22.46  | -0.76  | 82.7             | 1.38              | 0.02          | Not required     |
| WLAN2.4GHz Ant 7 |                  |               | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
| FR1 n48 Ant 3    |                  | Bottom Face   | 0.771       | 0        | -37.37                 | -22.46  | -0.76  | 59.9             | 0.79              | 0.01          | Not required     |
| NFC Ant 9        |                  |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN2.4GHz Ant 6 |                  | Bottom Face   | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 199.1            | 1.28              | 0.01          | Not required     |
| WLAN2.4GHz Ant 7 |                  |               | 0.61        | 0        | -30.71                 | -104.9  | -0.62  |                  |                   |               |                  |
| WLAN2.4GHz Ant 6 |                  | Bottom Face   | 0.667       | 0        | -49.46                 | 93.31   | 1.27   | 167.7            | 0.69              | 0.00          | Not required     |
| NFC Ant 9        |                  |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| WLAN2.4GHz Ant 7 |                  | Bottom Face   | 0.61        | 0        | -30.71                 | -104.9  | -0.62  | 52.7             | 0.63              | 0.01          | Not required     |
| NFC Ant 9        |                  |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
| Case 54          | FR1 n48 Ant 3    | Bottom Face   | 0.771       | 0        | -37.37                 | -22.46  | -0.76  | 100.7            | 1.43              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 6   |               | 0.65        | 0        | -56.13                 | 87.9    | 0.57   |                  |                   |               |                  |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | FR1 n48 Ant 3    | Bottom Face   | 0.771       | 0        | -37.37                 | -22.46  | -0.76  | 80.4             | 1.44              | 0.02          | Not required     |
|                  | WLAN5GHz Ant 7   |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                  | FR1 n48 Ant 3    | Bottom Face   | 0.771       | 0        | -37.37                 | -22.46  | -0.76  | 59.9             | 0.79              | 0.01          | Not required     |
|                  | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 181.1            | 1.32              | 0.01          | Not required     |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   |               | 0.664       | 0        | -26.79                 | -102.14 | 1.4    |                  |                   |               |                  |
|                  | WLAN5GHz Ant 6   | Bottom Face   | 0.65        | 0        | -56.13                 | 87.9    | 0.57   | 153.8            | 0.68              | 0.00          | Not required     |
|                  | Bluetooth Ant 6  |               | 0.007       | 0        | -53.72                 | 76.93   | -0.34  |                  |                   |               |                  |
|                  | NFC Ant 9        |               | 0.023       | 0        | 4.28                   | -65.49  | -1.13  |                  |                   |               |                  |
|                  | WLAN5GHz Ant 7   | Bottom Face   | 0.664       | 0        | -26.79                 | -102.14 | 1.4    | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9        | 0.023            |               | 0           | 4.28     | -65.49                 | -1.13   |        |                  |                   |               |                  |
| Case 55          | FR1 n48 Ant 3    | Edge 4        | 1.257       | 0        | -1.96                  | 11.29   | 2.63   | 101.3            | 2.02              | 0.03          | Not required     |



| Case           | Band                  | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|-----------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                       |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 58.9             | 1.54              | 0.03          | Not required     |
|                | FR1 n48 Ant 3         |             | 1.257      | 0        | -1.96                  | 11.29   | 2.63  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7      |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Edge 4      | 0.758      | 0        | 2.65                   | -89.89  | 1.28  | 160.1            | 1.04              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.282      | 0        | -1.81                  | 70.14   | 0.53  |                  |                   |               |                  |
| Case 56        | FR1 n48 Ant 3         | Edge 4      | 1.257      | 0        | -1.96                  | 11.29   | 2.63  | 107.0            | 1.93              | 0.02          | Not required     |
|                | Bluetooth Ant 6       |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        |             | 0.668      | 0        | -4.24                  | -99.74  | -1.26 |                  |                   |               |                  |
|                | FR1 n48 Ant 3         | Edge 4      | 1.257      | 0        | -1.96                  | 11.29   | 2.63  | 95.8             | 1.44              | 0.02          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Edge 4      | 0.668      | 0        | -4.24                  | -99.74  | -1.26 | 202.9            | 0.85              | 0.00          | Not required     |
|                | Bluetooth Ant 6       |             | 0.002      | 0        | -3.2                   | -95.73  | 1.65  |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.181      | 0        | 1.43                   | 107.07  | 1.77  |                  |                   |               |                  |
| Case 57        | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 127.3            | 1.25              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 6      |             | 0.667      | 0        | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 167.2            | 1.19              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 115.1            | 0.60              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0        | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Bottom Face | 0.667      | 0        | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7      | Bottom Face | 0.61       | 0        | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 58        | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 124.4            | 1.24              | 0.01          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 162.7            | 1.25              | 0.01          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 1 | Bottom Face | 0.581      | 0        | 62.92                  | 33.58   | 1.31  | 115.1            | 0.60              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
| NFC Ant 9      | 0.023                 |             | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 59        | FR1 n77 Part27Q Ant 1 | Bottom Face | 0.292      | 0        | 56.66                  | 28.03   | -0.76 | 120.7            | 0.95              | 0.01          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 1 | Bottom Face | 0.292      | 0        | 56.66                  | 28.03   | -0.76 | 154.6            | 0.96              | 0.01          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 1 | Bottom Face | 0.292      | 0        | 56.66                  | 28.03   | -0.76 | 107.2            | 0.32              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN5GHz Ant 6 | Bottom Face           | 0.65        | 0          | -56.13   | 87.9                   | 0.57    | 181.1 | 1.32             | 0.01              | Not required  |                  |



|           | Band                  | Position              | SAR (W/kg)  | Gap (mm) | SAR peak location (mm) |         |         | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |              |
|-----------|-----------------------|-----------------------|-------------|----------|------------------------|---------|---------|------------------|-------------------|---------------|------------------|--------------|
|           |                       |                       |             |          | X                      | Y       | Z       |                  |                   |               |                  |              |
|           | Bluetooth Ant 6       | Bottom Face           | 0.007       | 0        | -53.72                 | 76.93   | -0.34   | 153.8            | 0.68              | 0.00          | Not required     |              |
|           | WLAN5GHz Ant 7        |                       | 0.664       | 0        | -26.79                 | -102.14 | 1.4     |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 6        |                       | 0.65        | 0        | -56.13                 | 87.9    | 0.57    |                  |                   |               |                  |              |
|           |                       | Bluetooth Ant 6       | Bottom Face | 0.007    | 0                      | -53.72  | 76.93   | -0.34            | 48.1              | 0.69          | 0.01             | Not required |
|           |                       | NFC Ant 9             |             | 0.023    | 0                      | 4.28    | -65.49  | -1.13            |                   |               |                  |              |
|           |                       | WLAN5GHz Ant 7        |             | 0.664    | 0                      | -26.79  | -102.14 | 1.4              |                   |               |                  |              |
| Case 60   |                       | FR1 n77 Part270 Ant 3 | Bottom Face | 0.837    | 0                      | -68.35  | -27.71  | 2.25             | 122.5             | 1.50          | 0.02             | Not required |
|           |                       | WLAN2.4GHz Ant 6      |             | 0.667    | 0                      | -49.46  | 93.31   | 1.27             |                   |               |                  |              |
|           |                       | FR1 n77 Part270 Ant 3 | Bottom Face | 0.837    | 0                      | -68.35  | -27.71  | 2.25             | 85.9              | 1.45          | 0.02             | Not required |
|           | WLAN2.4GHz Ant 7      | 0.61                  |             | 0        | -30.71                 | -104.9  | -0.62   |                  |                   |               |                  |              |
|           | FR1 n77 Part270 Ant 3 | Bottom Face           | 0.837       | 0        | -68.35                 | -27.71  | 2.25    | 81.9             | 0.86              | 0.01          | Not required     |              |
|           | NFC Ant 9             |                       | 0.023       | 0        | 4.28                   | -65.49  | -1.13   |                  |                   |               |                  |              |
|           | WLAN2.4GHz Ant 6      | Bottom Face           | 0.667       | 0        | -49.46                 | 93.31   | 1.27    | 199.1            | 1.28              | 0.01          | Not required     |              |
|           | WLAN2.4GHz Ant 7      |                       | 0.61        | 0        | -30.71                 | -104.9  | -0.62   |                  |                   |               |                  |              |
|           | WLAN2.4GHz Ant 6      | Bottom Face           | 0.667       | 0        | -49.46                 | 93.31   | 1.27    | 167.7            | 0.69              | 0.00          | Not required     |              |
|           | NFC Ant 9             |                       | 0.023       | 0        | 4.28                   | -65.49  | -1.13   |                  |                   |               |                  |              |
|           | WLAN2.4GHz Ant 7      | Bottom Face           | 0.61        | 0        | -30.71                 | -104.9  | -0.62   | 52.7             | 0.63              | 0.01          | Not required     |              |
|           | NFC Ant 9             |                       | 0.023       | 0        | 4.28                   | -65.49  | -1.13   |                  |                   |               |                  |              |
| Case 61   | FR1 n77 Part270 Ant 3 | Bottom Face           | 0.837       | 0        | -68.35                 | -27.71  | 2.25    | 105.7            | 1.49              | 0.02          | Not required     |              |
|           | WLAN5GHz Ant 6        |                       | 0.65        | 0        | -56.13                 | 87.9    | 0.57    |                  |                   |               |                  |              |
|           | Bluetooth Ant 6       |                       | 0.007       | 0        | -53.72                 | 76.93   | -0.34   |                  |                   |               |                  |              |
|           | FR1 n77 Part270 Ant 3 | Bottom Face           | 0.837       | 0        | -68.35                 | -27.71  | 2.25    | 85.3             | 1.50              | 0.02          | Not required     |              |
|           | WLAN5GHz Ant 7        |                       | 0.664       | 0        | -26.79                 | -102.14 | 1.4     |                  |                   |               |                  |              |
|           | FR1 n77 Part270 Ant 3 | Bottom Face           | 0.837       | 0        | -68.35                 | -27.71  | 2.25    | 81.9             | 0.86              | 0.01          | Not required     |              |
|           | NFC Ant 9             |                       | 0.023       | 0        | 4.28                   | -65.49  | -1.13   |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 6        | Bottom Face           | 0.65        | 0        | -56.13                 | 87.9    | 0.57    | 181.1            | 1.32              | 0.01          | Not required     |              |
|           | Bluetooth Ant 6       |                       | 0.007       | 0        | -53.72                 | 76.93   | -0.34   |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 7        |                       | 0.664       | 0        | -26.79                 | -102.14 | 1.4     |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 6        | Bottom Face           | 0.65        | 0        | -56.13                 | 87.9    | 0.57    | 153.8            | 0.68              | 0.00          | Not required     |              |
|           | Bluetooth Ant 6       |                       | 0.007       | 0        | -53.72                 | 76.93   | -0.34   |                  |                   |               |                  |              |
|           | NFC Ant 9             |                       | 0.023       | 0        | 4.28                   | -65.49  | -1.13   |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 7        | Bottom Face           | 0.664       | 0        | -26.79                 | -102.14 | 1.4     | 48.1             | 0.69              | 0.01          | Not required     |              |
| NFC Ant 9 | 0.023                 |                       | 0           | 4.28     | -65.49                 | -1.13   |         |                  |                   |               |                  |              |
| Case 62   | FR1 n77 Part270 Ant 3 | Edge 4                | 1.246       | 0        | -3.1                   | 14      | 0.23    | 104.1            | 2.00              | 0.03          | Not required     |              |
|           | WLAN2.4GHz Ant 6      |                       | 0.758       | 0        | 2.65                   | -89.89  | 1.28    |                  |                   |               |                  |              |
|           | FR1 n77 Part270 Ant 3 | Edge 4                | 1.246       | 0        | -3.1                   | 14      | 0.23    | 56.2             | 1.53              | 0.03          | Not required     |              |
|           | WLAN2.4GHz Ant 7      |                       | 0.282       | 0        | -1.81                  | 70.14   | 0.53    |                  |                   |               |                  |              |
|           | WLAN2.4GHz Ant 6      | Edge 4                | 0.758       | 0        | 2.65                   | -89.89  | 1.28    | 160.1            | 1.04              | 0.01          | Not required     |              |
|           | WLAN2.4GHz Ant 7      |                       | 0.282       | 0        | -1.81                  | 70.14   | 0.53    |                  |                   |               |                  |              |
| Case 63   | FR1 n77 Part270 Ant 3 | Edge 4                | 1.246       | 0        | -3.1                   | 14      | 0.23    | 109.7            | 1.92              | 0.02          | Not required     |              |
|           | Bluetooth Ant 6       |                       | 0.002       | 0        | -3.2                   | -95.73  | 1.65    |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 6        |                       | 0.668       | 0        | -4.24                  | -99.74  | -1.26   |                  |                   |               |                  |              |
|           | FR1 n77 Part270 Ant 3 | Edge 4                | 1.246       | 0        | -3.1                   | 14      | 0.23    | 93.2             | 1.43              | 0.02          | Not required     |              |
|           | WLAN5GHz Ant 7        |                       | 0.181       | 0        | 1.43                   | 107.07  | 1.77    |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 6        | Edge 4                | 0.668       | 0        | -4.24                  | -99.74  | -1.26   | 202.9            | 0.85              | 0.00          | Not required     |              |
|           | Bluetooth Ant 6       |                       | 0.002       | 0        | -3.2                   | -95.73  | 1.65    |                  |                   |               |                  |              |
|           | WLAN5GHz Ant 7        |                       | 0.181       | 0        | 1.43                   | 107.07  | 1.77    |                  |                   |               |                  |              |



|                | Band                  | Position    | SAR (W/kg) | Gap    | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|-----------------------|-------------|------------|--------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                       |             |            | (mm)   | X                      | Y       | Z     |                  |                   |               |                  |
| Case 64        | FR1 n77 Part270 Ant 4 | Bottom Face | 1.251      | 0      | 17.85                  | 104.88  | 2.1   | 199.1            | 2.53              | 0.02          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      |             | 0.667      | 0      | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 4 | Bottom Face | 1.251      | 0      | 17.85                  | 104.88  | 2.1   | 52.7             | 1.27              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Bottom Face | 0.667      | 0      | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
| NFC Ant 9      | 0.023                 |             | 0          | 4.28   | -65.49                 | -1.13   |       |                  |                   |               |                  |
| Case 65        | FR1 n77 Part270 Ant 4 | Bottom Face | 1.251      | 0      | 17.85                  | 104.88  | 2.1   | 75.9             | 1.91              | 0.03          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0      | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 4 | Bottom Face | 1.251      | 0      | 17.85                  | 104.88  | 2.1   | 211.8            | 1.92              | 0.01          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0      | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part270 Ant 4 | Bottom Face | 1.251      | 0      | 17.85                  | 104.88  | 2.1   | 170.9            | 1.27              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0      | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0      | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0      | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        | Bottom Face | 0.664      | 0      | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 66        | FR1 n77 Part270 Ant 4 | Edge 3      | 0.785      | 0      | -11.33                 | -50.02  | 2.01  | 105.9            | 2.01              | 0.03          | Not required     |
|                | Bluetooth Ant 6       |             | 0.002      | 0      | -0.13                  | 56.49   | 1.24  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        |             | 1.225      | 0      | -7.42                  | 55.83   | 1.69  |                  |                   |               |                  |
| Case 67        | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 68.2             | 1.48              | 0.03          | Not required     |
|                | WLAN2.4GHz Ant 6      |             | 0.667      | 0      | -49.46                 | 93.31   | 1.27  |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 203.0            | 1.43              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 158.2            | 0.84              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Bottom Face | 0.667      | 0      | -49.46                 | 93.31   | 1.27  | 199.1            | 1.28              | 0.01          | Not required     |
|                | WLAN2.4GHz Ant 7      |             | 0.61       | 0      | -30.71                 | -104.9  | -0.62 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 6      | Bottom Face | 0.667      | 0      | -49.46                 | 93.31   | 1.27  | 167.7            | 0.69              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN2.4GHz Ant 7      | Bottom Face | 0.61       | 0      | -30.71                 | -104.9  | -0.62 | 52.7             | 0.63              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 68        | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 74.0             | 1.47              | 0.02          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0      | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0      | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 199.4            | 1.48              | 0.01          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0      | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 4 | Bottom Face | 0.815      | 0      | 18.71                  | 92.03   | 0.88  | 158.2            | 0.84              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0      | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN5GHz Ant 6 | Bottom Face           | 0.65        | 0          | -56.13 | 87.9                   | 0.57    | 181.1 | 1.32             | 0.01              | Not required  |                  |



| Case           | Band                  | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |         |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------------|-----------------------|-------------|------------|----------|------------------------|---------|-------|------------------|-------------------|---------------|------------------|
|                |                       |             |            |          | X                      | Y       | Z     |                  |                   |               |                  |
| Case 68        | Bluetooth Ant 6       | Bottom Face | 0.007      | 0        | -53.72                 | 76.93   | -0.34 | 153.8            | 0.68              | 0.00          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       | Bottom Face | 0.007      | 0        | -53.72                 | 76.93   | -0.34 | 48.1             | 0.69              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
| NFC Ant 9      | 0.023                 | 0           | 4.28       | -65.49   | -1.13                  |         |       |                  |                   |               |                  |
| Case 69        | FR1 n77 Part27Q Ant 4 | Edge 3      | 0.763      | 0        | -3.36                  | -63.93  | -1    | 119.9            | 1.99              | 0.02          | Not required     |
|                | Bluetooth Ant 6       |             | 0.002      | 0        | -0.13                  | 56.49   | 1.24  |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        |             | 1.225      | 0        | -7.42                  | 55.83   | 1.69  |                  |                   |               |                  |
| Case 70        | FR1 n77 Part27O Ant 5 | Bottom Face | 0.284      | 0        | -3.95                  | 94.74   | -0.1  | 52.6             | 0.94              | 0.02          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part27O Ant 5 | Bottom Face | 0.284      | 0        | -3.95                  | 94.74   | -0.1  | 198.2            | 0.95              | 0.00          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part27O Ant 5 | Bottom Face | 0.284      | 0        | -3.95                  | 94.74   | -0.1  | 160.4            | 0.31              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        | Bottom Face | 0.664      | 0        | -26.79                 | -102.14 | 1.4   | 48.1             | 0.69              | 0.01          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| Case 71        | FR1 n77 Part27Q Ant 5 | Bottom Face | 0.285      | 0        | -3.94                  | 117.75  | -0.49 | 60.1             | 0.94              | 0.02          | Not required     |
|                | WLAN5GHz Ant 6        |             | 0.65       | 0        | -56.13                 | 87.9    | 0.57  |                  |                   |               |                  |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 5 | Bottom Face | 0.285      | 0        | -3.94                  | 117.75  | -0.49 | 221.1            | 0.95              | 0.00          | Not required     |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | FR1 n77 Part27Q Ant 5 | Bottom Face | 0.285      | 0        | -3.94                  | 117.75  | -0.49 | 183.4            | 0.31              | 0.00          | Not required     |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 181.1            | 1.32              | 0.01          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | WLAN5GHz Ant 7        |             | 0.664      | 0        | -26.79                 | -102.14 | 1.4   |                  |                   |               |                  |
|                | WLAN5GHz Ant 6        | Bottom Face | 0.65       | 0        | -56.13                 | 87.9    | 0.57  | 153.8            | 0.68              | 0.00          | Not required     |
|                | Bluetooth Ant 6       |             | 0.007      | 0        | -53.72                 | 76.93   | -0.34 |                  |                   |               |                  |
|                | NFC Ant 9             |             | 0.023      | 0        | 4.28                   | -65.49  | -1.13 |                  |                   |               |                  |
| WLAN5GHz Ant 7 | Bottom Face           | 0.664       | 0          | -26.79   | -102.14                | 1.4     | 48.1  | 0.69             | 0.01              | Not required  |                  |
| NFC Ant 9      |                       | 0.023       | 0          | 4.28     | -65.49                 | -1.13   |       |                  |                   |               |                  |

Note: \*Instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

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## **18. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture’s specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

| <b>Uncertainty Distributions</b>   | <b>Normal</b>      | <b>Rectangular</b> | <b>Triangular</b> | <b>U-Shape</b> |
|------------------------------------|--------------------|--------------------|-------------------|----------------|
| Multi-plying Factor <sup>(a)</sup> | 1/k <sup>(b)</sup> | 1/√3               | 1/√6              | 1/√2           |

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

### **Standard Uncertainty for Assumed Distribution**

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.



| Uncertainty Budget<br>(Frequency band: 4 MHz - 10 GHz range) |                        |             |         |         |          |                                |                                 |
|--|------------------------|-------------|---------|---------|----------|--------------------------------|---------------------------------|
| Error Description  | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) |
| <b>Measurement System</b>                                    |                        |             |         |         |          |                                |                                 |
| Probe Calibration  | 18.6                   | N           | 2       | 1       | 1        | 9.3                            | 9.3                             |
| Probe Calibration Drift                                      | 1.7                    | R           | 1.732   | 1       | 1        | 1.0                            | 1.0                             |
| Probe Linearity  | 4.7                    | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             |
| Broadband Signal   | 2.8                    | R           | 1.732   | 1       | 1        | 1.6                            | 1.6                             |
| Probe Isotropy   | 7.6                    | R           | 1.732   | 1       | 1        | 4.4                            | 4.4                             |
| Data Acquisition   | 0.3                    | N           | 1       | 1       | 1        | 0.3                            | 0.3                             |
| RF Ambient   | 1.8                    | N           | 1       | 1       | 1        | 1.8                            | 1.8                             |
| Probe Positioning  | 0.2                    | N           | 1       | 0.67    | 0.67     | 0.1                            | 0.1                             |
| Data Processing  | 3.5                    | N           | 1       | 1       | 1        | 3.5                            | 3.5                             |
| <b>Phantom and Device Errors</b>                             |                        |             |         |         |          |                                |                                 |
| Conductivity (meas.)   | 2.8                    | N           | 1       | 0.78    | 0.71     | 2.2                            | 2.0                             |
| Conductivity (temp.)   | 3.7                    | R           | 1.732   | 0.78    | 0.71     | 1.7                            | 1.5                             |
| Phantom Permittivity   | 14.0                   | R           | 1.732   | 0.5     | 0.5      | 4.0                            | 4.0                             |
| Distance DUT - TSL   | 2.0                    | N           | 1       | 2       | 2        | 4.0                            | 4.0                             |
| Device Positioning (±0.5mm)                                  | 3.0                    | N           | 1       | 1       | 1        | 3.0                            | 3.0                             |
| Device Holder  | 3.6                    | N           | 1       | 1       | 1        | 3.6                            | 3.6                             |
| DUT Modulation   | 4.6                    | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             |
| Time-average SAR   | 2.6                    | R           | 1.732   | 1       | 1        | 1.5                            | 1.5                             |
| DUT drift  | 2.5                    | N           | 1       | 1       | 1        | 2.5                            | 2.5                             |
| Val Antenna Unc.   | 0.0                    | N           | 1       | 1       | 1        | 0.0                            | 0.0                             |
| Unc. Input Power   | 0.0                    | N           | 1       | 1       | 1        | 0.0                            | 0.0                             |
| <b>Correction to the SAR results</b>                         |                        |             |         |         |          |                                |                                 |
| Deviation to Target  | 1.9                    | N           | 1       | 1       | 0.84     | 1.9                            | 1.6                             |
| SAR scaling  | 0.0                    | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             |
| <b>Combined Std. Uncertainty</b>                             |                        |             |         |         |          | <b>14.6%</b>                   | <b>14.5%</b>                    |
| <b>Coverage Factor for 95 %</b>                              |                        |             |         |         |          | <b>K=2</b>                     | <b>K=2</b>                      |
| <b>Expanded STD Uncertainty</b>                              |                        |             |         |         |          | <b>29.2%</b>                   | <b>29.0%</b>                    |

**SAR Uncertainty Budget for frequency range 4MHz to 10GHz according to IEC/IEEE**

**62209-1528:2020**





## **19. References**

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