



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |     |   |              |     |            |        |       |       |       |       |       |       |       |
|----|-------------------|-----|------|-----|---|--------------|-----|------------|--------|-------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 23230  | 782   | 22.67 | 23.80 | 1.297 | 0.13  | 0.063 | 0.082 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 26865  | 831.5 | 22.96 | 24.00 | 1.271 | 0.05  | 0.262 | 0.333 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 26865  | 831.5 | 22.96 | 24.00 | 1.271 | -0.09 | 0.050 | 0.064 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 26865  | 831.5 | 22.96 | 24.00 | 1.271 | 0.17  | 0.452 | 0.574 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 26865  | 831.5 | 22.96 | 24.00 | 1.271 | 0.15  | 0.043 | 0.055 |
| 09 | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 26765  | 821.5 | 22.91 | 24.00 | 1.285 | 0.06  | 0.781 | 1.004 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 26965  | 841.5 | 22.84 | 24.00 | 1.306 | 0.09  | 0.768 | 1.003 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36  | 0 | Right Cheek  | 0mm | DSI5       | 26865  | 831.5 | 21.77 | 23.00 | 1.327 | -0.04 | 0.200 | 0.265 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36  | 0 | Right Tilted | 0mm | DSI5       | 26865  | 831.5 | 21.77 | 23.00 | 1.327 | -0.13 | 0.039 | 0.051 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36  | 0 | Left Cheek   | 0mm | DSI5       | 26865  | 831.5 | 21.77 | 23.00 | 1.327 | 0.05  | 0.505 | 0.670 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36  | 0 | Left Tilted  | 0mm | DSI5       | 26865  | 831.5 | 21.77 | 23.00 | 1.327 | 0.18  | 0.062 | 0.082 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 75  | 0 | Left Cheek   | 0mm | DSI5       | 26865  | 831.5 | 21.76 | 23.00 | 1.330 | 0.08  | 0.493 | 0.656 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI10/15   | 26865  | 831.5 | 18.78 | 20.00 | 1.324 | -0.08 | 0.306 | 0.405 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI10/15   | 26765  | 821.5 | 18.76 | 20.00 | 1.330 | 0.06  | 0.316 | 0.420 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI10/15   | 26965  | 841.5 | 18.76 | 20.00 | 1.330 | -0.11 | 0.322 | 0.428 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36  | 0 | Left Cheek   | 0mm | DSI10/15   | 26865  | 831.5 | 18.76 | 20.00 | 1.330 | 0.02  | 0.303 | 0.403 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.11  | 0.141 | 0.175 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.17  | 0.080 | 0.100 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.11  | 0.140 | 0.174 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.02  | 0.068 | 0.085 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26765  | 821.5 | 23.65 | 24.80 | 1.303 | 0.17  | 0.128 | 0.167 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26965  | 841.5 | 23.62 | 24.80 | 1.312 | 0.07  | 0.143 | 0.188 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | 0.12  | 0.116 | 0.148 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36  | 0 | Right Tilted | 0mm | DSI5/10/15 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | 0.02  | 0.065 | 0.083 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | 0.18  | 0.116 | 0.148 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | 0.02  | 0.054 | 0.069 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745  | 20.19 | 20.80 | 1.151 | -0.11 | 0.644 | 0.741 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 132322 | 1745  | 20.19 | 20.80 | 1.151 | -0.06 | 0.343 | 0.395 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 132322 | 1745  | 20.19 | 20.80 | 1.151 | -0.08 | 0.273 | 0.314 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 132322 | 1745  | 20.19 | 20.80 | 1.151 | -0.04 | 0.172 | 0.198 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132072 | 1720  | 20.06 | 20.80 | 1.186 | 0.02  | 0.519 | 0.615 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132572 | 1770  | 19.95 | 20.80 | 1.216 | 0.07  | 0.897 | 1.091 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745  | 20.16 | 20.80 | 1.159 | -0.04 | 0.641 | 0.743 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 132322 | 1745  | 20.16 | 20.80 | 1.159 | -0.09 | 0.371 | 0.430 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5       | 132322 | 1745  | 20.16 | 20.80 | 1.159 | 0.19  | 0.277 | 0.321 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5       | 132322 | 1745  | 20.16 | 20.80 | 1.159 | 0.19  | 0.176 | 0.204 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745  | 20.17 | 20.80 | 1.156 | 0.06  | 0.661 | 0.764 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 132322 | 1745  | 19.26 | 19.80 | 1.132 | -0.13 | 0.519 | 0.588 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 132072 | 1720  | 19.15 | 19.80 | 1.161 | 0.17  | 0.440 | 0.511 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 132572 | 1770  | 19.21 | 19.80 | 1.146 | 0.11  | 0.596 | 0.683 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI10/15   | 132322 | 1745  | 19.17 | 19.80 | 1.156 | 0.01  | 0.534 | 0.617 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | 0.1   | 0.209 | 0.262 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | 0.19  | 0.105 | 0.132 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | -0.06 | 0.133 | 0.167 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | -0.15 | 0.095 | 0.119 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132072 | 1720  | 20.12 | 21.30 | 1.312 | 0.1   | 0.182 | 0.239 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132572 | 1770  | 20.21 | 21.30 | 1.285 | 0.1   | 0.257 | 0.330 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | -0.15 | 0.170 | 0.214 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | 0.18  | 0.083 | 0.104 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | -0.05 | 0.091 | 0.114 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | -0.11 | 0.083 | 0.105 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745  | 16.15 | 16.80 | 1.161 | 0.03  | 0.860 | 0.999 |
| 10 | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 132322 | 1745  | 16.15 | 16.80 | 1.161 | 0.01  | 0.995 | 1.156 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 132322 | 1745  | 16.15 | 16.80 | 1.161 | 0.05  | 0.624 | 0.725 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 132322 | 1745  | 16.15 | 16.80 | 1.161 | 0.12  | 0.745 | 0.865 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132072 | 1720  | 16.13 | 16.80 | 1.167 | 0.09  | 0.833 | 0.972 |



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|----|-------------------|-----|------|-----|---|--------------|-----|------------|--------|------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 132572 | 1770 | 16.10 | 16.80 | 1.175 | 0.04  | 0.734 | 0.862 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 132072 | 1720 | 16.13 | 16.80 | 1.167 | -0.11 | 0.878 | 1.024 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 132572 | 1770 | 16.10 | 16.80 | 1.175 | -0.05 | 0.763 | 0.896 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 132072 | 1720 | 16.13 | 16.80 | 1.167 | 0.02  | 0.611 | 0.713 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 132572 | 1770 | 16.10 | 16.80 | 1.175 | 0.03  | 0.578 | 0.679 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745 | 16.11 | 16.80 | 1.172 | -0.03 | 0.783 | 0.918 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 132322 | 1745 | 16.11 | 16.80 | 1.172 | 0.01  | 0.849 | 0.995 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5       | 132322 | 1745 | 16.11 | 16.80 | 1.172 | 0.08  | 0.521 | 0.611 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5       | 132322 | 1745 | 16.11 | 16.80 | 1.172 | -0.09 | 0.675 | 0.791 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 132072 | 1720 | 16.10 | 16.80 | 1.175 | 0.08  | 0.703 | 0.826 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 132572 | 1770 | 16.06 | 16.80 | 1.186 | 0.03  | 0.634 | 0.752 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 132072 | 1720 | 16.10 | 16.80 | 1.175 | 0.02  | 0.928 | 1.090 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 132572 | 1770 | 16.06 | 16.80 | 1.186 | -0.11 | 0.823 | 0.976 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI5       | 132322 | 1745 | 16.08 | 16.80 | 1.180 | -0.1  | 0.937 | 1.106 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 100 | 0 | Right Tilted | 0mm | DSI5       | 132322 | 1745 | 16.08 | 16.80 | 1.180 | 0.18  | 0.924 | 1.091 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 100 | 0 | Left Tilted  | 0mm | DSI5       | 132322 | 1745 | 16.08 | 16.80 | 1.180 | 0.01  | 0.618 | 0.729 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 132322 | 1745 | 15.10 | 15.80 | 1.175 | -0.04 | 0.645 | 0.758 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 132072 | 1720 | 15.05 | 15.80 | 1.189 | -0.12 | 0.670 | 0.796 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 132572 | 1770 | 15.05 | 15.80 | 1.189 | -0.05 | 0.634 | 0.754 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI10/15   | 132322 | 1745 | 15.04 | 15.80 | 1.191 | 0.16  | 0.634 | 0.755 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | 0.08  | 0.029 | 0.036 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.05 | 0.020 | 0.025 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.11 | 0.027 | 0.033 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.18 | 0.015 | 0.019 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132072 | 1720 | 20.85 | 21.80 | 1.245 | 0.1   | 0.018 | 0.022 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132572 | 1770 | 20.84 | 21.80 | 1.247 | 0.1   | 0.026 | 0.032 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.19 | 0.025 | 0.031 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | 0.14  | 0.018 | 0.022 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.15 | 0.022 | 0.027 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | 0.12  | 0.012 | 0.015 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 26340  | 1880 | 18.97 | 19.80 | 1.211 | 0.12  | 0.581 | 0.703 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 26340  | 1880 | 18.97 | 19.80 | 1.211 | 0.02  | 0.315 | 0.381 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 26340  | 1880 | 18.97 | 19.80 | 1.211 | -0.06 | 0.262 | 0.317 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 26340  | 1880 | 18.97 | 19.80 | 1.211 | -0.05 | 0.149 | 0.180 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 26140  | 1860 | 18.85 | 19.80 | 1.245 | 0.17  | 0.577 | 0.718 |
| 11 | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 26590  | 1905 | 18.82 | 19.80 | 1.253 | 0.15  | 0.913 | 1.144 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 26340  | 1880 | 18.76 | 19.80 | 1.271 | -0.08 | 0.587 | 0.746 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 26340  | 1880 | 18.76 | 19.80 | 1.271 | -0.14 | 0.317 | 0.403 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5       | 26340  | 1880 | 18.76 | 19.80 | 1.271 | 0.1   | 0.269 | 0.342 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5       | 26340  | 1880 | 18.76 | 19.80 | 1.271 | 0.04  | 0.149 | 0.189 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 26140  | 1860 | 18.66 | 19.80 | 1.300 | 0.11  | 0.570 | 0.741 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 26590  | 1905 | 18.67 | 19.80 | 1.297 | 0.05  | 0.876 | 1.136 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI5       | 26340  | 1880 | 18.80 | 19.80 | 1.259 | 0.06  | 0.574 | 0.723 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 26340  | 1880 | 17.97 | 18.80 | 1.211 | -0.06 | 0.506 | 0.613 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 26140  | 1860 | 17.82 | 18.80 | 1.253 | 0     | 0.487 | 0.610 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 26590  | 1905 | 17.96 | 18.80 | 1.213 | -0.08 | 0.517 | 0.627 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI10/15   | 26340  | 1880 | 17.96 | 18.80 | 1.213 | -0.05 | 0.514 | 0.624 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0.1   | 0.143 | 0.194 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | -0.11 | 0.059 | 0.080 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | -0.15 | 0.133 | 0.180 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0.12  | 0.064 | 0.087 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26140  | 1860 | 19.78 | 21.30 | 1.418 | 0.04  | 0.139 | 0.197 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26590  | 1905 | 19.86 | 21.30 | 1.393 | 0.14  | 0.226 | 0.315 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | 0.07  | 0.117 | 0.163 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | 0.09  | 0.050 | 0.069 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | -0.13 | 0.107 | 0.149 |



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Report No. : FA101920

|    |                   |     |      |     |   |              |     |            |             |             |       |       |       |       |       |       |
|----|-------------------|-----|------|-----|---|--------------|-----|------------|-------------|-------------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 26340       | 1880        | 19.85 | 21.30 | 1.396 | -0.14 | 0.053 | 0.074 |
| 12 | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 27710       | 2310        | 21.20 | 22.00 | 1.202 | 0.17  | 0.920 | 1.106 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 27710       | 2310        | 21.20 | 22.00 | 1.202 | 0.03  | 0.280 | 0.337 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 27710       | 2310        | 21.20 | 22.00 | 1.202 | -0.08 | 0.190 | 0.228 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 27710       | 2310        | 21.20 | 22.00 | 1.202 | 0.15  | 0.167 | 0.201 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Right Cheek  | 0mm | DSI5       | 27710       | 2310        | 21.08 | 22.00 | 1.236 | -0.16 | 0.890 | 1.100 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Right Tilted | 0mm | DSI5       | 27710       | 2310        | 21.08 | 22.00 | 1.236 | -0.11 | 0.279 | 0.345 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Left Cheek   | 0mm | DSI5       | 27710       | 2310        | 21.08 | 22.00 | 1.236 | 0.13  | 0.189 | 0.234 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Left Tilted  | 0mm | DSI5       | 27710       | 2310        | 21.08 | 22.00 | 1.236 | -0.02 | 0.163 | 0.201 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 27710       | 2310        | 21.01 | 22.00 | 1.256 | 0.03  | 0.869 | 1.091 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 27710       | 2310        | 20.25 | 21.00 | 1.189 | -0.1  | 0.575 | 0.683 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Right Cheek  | 0mm | DSI10/15   | 27710       | 2310        | 20.18 | 21.00 | 1.208 | 0.02  | 0.568 | 0.686 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 27710       | 2310        | 20.90 | 22.30 | 1.380 | -0.14 | 0.198 | 0.273 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 27710       | 2310        | 20.90 | 22.30 | 1.380 | -0.09 | 0.054 | 0.074 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 27710       | 2310        | 20.90 | 22.30 | 1.380 | -0.02 | 0.101 | 0.139 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 27710       | 2310        | 20.90 | 22.30 | 1.380 | -0.19 | 0.052 | 0.071 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 27710       | 2310        | 20.88 | 22.30 | 1.387 | 0.16  | 0.137 | 0.190 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Right Tilted | 0mm | DSI5/10/15 | 27710       | 2310        | 20.88 | 22.30 | 1.387 | 0.05  | 0.063 | 0.088 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 27710       | 2310        | 20.88 | 22.30 | 1.387 | 0.02  | 0.083 | 0.115 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 27710       | 2310        | 20.88 | 22.30 | 1.387 | 0.16  | 0.039 | 0.054 |
| 13 | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 21100       | 2535        | 20.10 | 21.00 | 1.230 | 0.09  | 0.909 | 1.118 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 21100+21298 | 2535+2554.8 | 20.08 | 21.00 | 1.236 | 0.01  | 0.814 | 1.006 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 21100       | 2535        | 20.10 | 21.00 | 1.230 | 0.18  | 0.369 | 0.454 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 21100       | 2535        | 20.10 | 21.00 | 1.230 | -0.17 | 0.208 | 0.256 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 21100       | 2535        | 20.10 | 21.00 | 1.230 | -0.08 | 0.152 | 0.187 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 20850       | 2510        | 20.00 | 21.00 | 1.259 | -0.05 | 0.779 | 0.981 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 21350       | 2560        | 19.98 | 21.00 | 1.265 | -0.06 | 0.750 | 0.949 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 21100       | 2535        | 20.07 | 21.00 | 1.239 | 0.09  | 0.900 | 1.115 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 21100       | 2535        | 20.07 | 21.00 | 1.239 | -0.15 | 0.369 | 0.457 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5       | 21100       | 2535        | 20.07 | 21.00 | 1.239 | -0.19 | 0.211 | 0.261 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5       | 21100       | 2535        | 20.07 | 21.00 | 1.239 | -0.19 | 0.131 | 0.162 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 20850       | 2510        | 20.00 | 21.00 | 1.259 | 0.12  | 0.815 | 1.026 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 21350       | 2560        | 19.96 | 21.00 | 1.271 | 0.06  | 0.751 | 0.954 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI5       | 21100       | 2535        | 20.00 | 21.00 | 1.259 | 0.01  | 0.863 | 1.086 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 21100       | 2535        | 19.21 | 20.00 | 1.199 | 0.13  | 0.720 | 0.864 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 21100+21298 | 2535+2554.8 | 18.94 | 20.00 | 1.276 | 0.09  | 0.621 | 0.793 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 20850       | 2510        | 19.16 | 20.00 | 1.213 | -0.05 | 0.591 | 0.717 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI10/15   | 21350       | 2560        | 19.20 | 20.00 | 1.202 | -0.06 | 0.612 | 0.736 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI10/15   | 21100       | 2535        | 19.12 | 20.00 | 1.225 | -0.13 | 0.637 | 0.780 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI10/15   | 21100       | 2535        | 19.11 | 20.00 | 1.227 | 0.06  | 0.683 | 0.838 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21100       | 2535        | 19.22 | 20.50 | 1.343 | 0.03  | 0.167 | 0.224 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 21100       | 2535        | 19.22 | 20.50 | 1.343 | -0.17 | 0.045 | 0.060 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 21100       | 2535        | 19.22 | 20.50 | 1.343 | -0.07 | 0.071 | 0.095 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 21100       | 2535        | 19.22 | 20.50 | 1.343 | 0.19  | 0.035 | 0.046 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 20850       | 2510        | 19.19 | 20.50 | 1.352 | -0.12 | 0.128 | 0.173 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21350       | 2560        | 19.10 | 20.50 | 1.380 | 0.01  | 0.184 | 0.254 |
|    | LTE Band 7C_ANT 3 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21350+21152 | 2560+2540.2 | 18.94 | 20.50 | 1.432 | 0.04  | 0.057 | 0.082 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21100       | 2535        | 19.21 | 20.50 | 1.346 | 0.12  | 0.106 | 0.143 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 21100       | 2535        | 19.21 | 20.50 | 1.346 | -0.03 | 0.034 | 0.045 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 21100       | 2535        | 19.21 | 20.50 | 1.346 | -0.04 | 0.022 | 0.030 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 21100       | 2535        | 19.21 | 20.50 | 1.346 | 0.02  | 0.007 | 0.009 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 21100       | 2535        | 14.30 | 15.80 | 1.413 | -0.18 | 0.588 | 0.831 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 21100       | 2535        | 14.30 | 15.80 | 1.413 | 0.13  | 0.644 | 0.910 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5       | 21100       | 2535        | 14.30 | 15.80 | 1.413 | 0.02  | 0.387 | 0.547 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5       | 21100       | 2535        | 14.30 | 15.80 | 1.413 | 0.1   | 0.478 | 0.675 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 20850       | 2510        | 14.28 | 15.80 | 1.419 | 0.05  | 0.442 | 0.627 |



# FCC SAR TEST REPORT

Report No. : FA1O1920

|                  |     |      |     |   |              |     |            |       |      |       |       |       |       |       |       |
|------------------|-----|------|-----|---|--------------|-----|------------|-------|------|-------|-------|-------|-------|-------|-------|
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5       | 21350 | 2560 | 14.26 | 15.80 | 1.426 | 0.04  | 0.486 | 0.693 |
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 20850 | 2510 | 14.28 | 15.80 | 1.419 | 0.14  | 0.703 | 0.998 |
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5       | 21350 | 2560 | 14.26 | 15.80 | 1.426 | -0.12 | 0.635 | 0.905 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 21100 | 2535 | 14.26 | 15.80 | 1.426 | 0.17  | 0.561 | 0.800 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 21100 | 2535 | 14.26 | 15.80 | 1.426 | -0.15 | 0.622 | 0.887 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5       | 21100 | 2535 | 14.26 | 15.80 | 1.426 | 0.02  | 0.431 | 0.614 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5       | 21100 | 2535 | 14.26 | 15.80 | 1.426 | 0.15  | 0.478 | 0.681 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 20850 | 2510 | 14.19 | 15.80 | 1.449 | 0.05  | 0.407 | 0.590 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5       | 21350 | 2560 | 14.21 | 15.80 | 1.442 | 0.04  | 0.462 | 0.666 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 20850 | 2510 | 14.19 | 15.80 | 1.449 | 0.14  | 0.527 | 0.764 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5       | 21350 | 2560 | 14.21 | 15.80 | 1.442 | -0.12 | 0.566 | 0.816 |
| LTE Band 7_ANT 5 | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI5       | 21100 | 2535 | 14.25 | 15.80 | 1.429 | -0.03 | 0.440 | 0.629 |
| LTE Band 7_ANT 5 | 20M | QPSK | 100 | 0 | Right Tilted | 0mm | DSI5       | 21100 | 2535 | 14.25 | 15.80 | 1.429 | -0.03 | 0.543 | 0.776 |
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 21100 | 2535 | 13.33 | 14.80 | 1.403 | 0.12  | 0.547 | 0.767 |
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 20850 | 2510 | 13.27 | 14.80 | 1.422 | -0.16 | 0.492 | 0.700 |
| LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI10/15   | 21350 | 2560 | 13.30 | 14.80 | 1.413 | -0.15 | 0.593 | 0.838 |
| LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI10/15   | 21100 | 2535 | 13.30 | 14.80 | 1.413 | 0.17  | 0.471 | 0.665 |
| LTE Band 7_ANT 5 | 20M | QPSK | 100 | 0 | Right Tilted | 0mm | DSI10/15   | 21100 | 2535 | 13.26 | 14.80 | 1.426 | 0.08  | 0.456 | 0.650 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21100 | 2535 | 22.85 | 23.80 | 1.245 | 0.15  | 0.165 | 0.205 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 21100 | 2535 | 22.85 | 23.80 | 1.245 | 0.04  | 0.034 | 0.042 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 21100 | 2535 | 22.85 | 23.80 | 1.245 | 0.01  | 0.106 | 0.132 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 21100 | 2535 | 22.85 | 23.80 | 1.245 | -0.17 | 0.039 | 0.049 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 20850 | 2510 | 22.81 | 23.80 | 1.256 | -0.13 | 0.148 | 0.186 |
| LTE Band 7_ANT 1 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21350 | 2560 | 22.80 | 23.80 | 1.259 | 0.12  | 0.216 | 0.272 |
| LTE Band 7_ANT 1 | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 21100 | 2535 | 22.10 | 22.80 | 1.175 | -0.08 | 0.151 | 0.177 |
| LTE Band 7_ANT 1 | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 21100 | 2535 | 22.10 | 22.80 | 1.175 | -0.02 | 0.031 | 0.036 |
| LTE Band 7_ANT 1 | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 21100 | 2535 | 22.10 | 22.80 | 1.175 | 0.18  | 0.099 | 0.116 |
| LTE Band 7_ANT 1 | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 21100 | 2535 | 22.10 | 22.80 | 1.175 | 0.02  | 0.031 | 0.036 |







# FCC SAR TEST REPORT

Report No. : FA101920

|  |                     |     |      |     |   |              |     |            |             |             |       |       |       |      |       |       |       |       |
|--|---------------------|-----|------|-----|---|--------------|-----|------------|-------------|-------------|-------|-------|-------|------|-------|-------|-------|-------|
|  | LTE Band 48_ANT 5   | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI10/15   | 56150       | 3641        | 16.37 | 16.80 | 1.104 | 62.9 | 1.006 | 0.12  | 0.682 | 0.757 |
|  | LTE Band 48_ANT 5   | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI10/15   | 56640       | 3690        | 16.21 | 16.80 | 1.146 | 62.9 | 1.006 | 0.07  | 0.686 | 0.791 |
|  | LTE Band 48_ANT 5   | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | DSI10/15   | 55830       | 3609        | 16.35 | 16.80 | 1.109 | 62.9 | 1.006 | 0.01  | 0.823 | 0.918 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.1   | 0.058 | 0.070 |
|  | LTE Band 48C_ANT 10 | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 55830+55632 | 3609+3589.2 | 16.03 | 17.30 | 1.340 | 62.9 | 1.006 | 0.13  | 0.052 | 0.070 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | DSI5/10/15 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.07  | 0.028 | 0.034 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | DSI5/10/15 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | -0.14 | 0.048 | 0.058 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | DSI5/10/15 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.05  | 0.013 | 0.016 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 55340       | 3560        | 16.46 | 17.30 | 1.213 | 62.9 | 1.006 | -0.05 | 0.030 | 0.037 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 56150       | 3641        | 16.39 | 17.30 | 1.233 | 62.9 | 1.006 | -0.1  | 0.042 | 0.052 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | DSI5/10/15 | 56640       | 3690        | 16.42 | 17.30 | 1.225 | 62.9 | 1.006 | 0.18  | 0.030 | 0.037 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | DSI5/10/15 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | 0.18  | 0.053 | 0.065 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | DSI5/10/15 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | 0.01  | 0.027 | 0.033 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | DSI5/10/15 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | 0     | 0.042 | 0.052 |
|  | LTE Band 48_ANT 10  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | DSI5/10/15 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | -0.11 | 0.010 | 0.012 |



## &lt;5GNR SAR&gt;

| Plot No. | Band      | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | 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) |
|----------|-----------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | 0.11             | 0.299                  | 0.381                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | -0.16            | 0.073                  | 0.093                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | -0.06            | 0.670                  | 0.853                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | 0.16             | 0.091                  | 0.115                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | 0.04             | 0.300                  | 0.394                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | 0.13             | 0.064                  | 0.084                  |
| 16       | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | 0.05             | 0.670                  | 0.879                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | -0.16            | 0.092                  | 0.121                  |
|          | N71_Ant 0 | 20M      | QPSK       | 100     | 0         | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 136100 | 680.5       | 22.23               | 23.40               | 1.309                  | 0.05             | 0.404                  | 0.529                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.18            | 0.127                  | 0.153                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | 0.03             | 0.072                  | 0.087                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.02            | 0.089                  | 0.107                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.16            | 0.052                  | 0.063                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | 0.19             | 0.156                  | 0.191                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | 0.15             | 0.069                  | 0.085                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.03            | 0.098                  | 0.120                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.11            | 0.052                  | 0.063                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -0.02            | 0.268                  | 0.341                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | 0.07             | 0.068                  | 0.086                  |
| 17       | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -0.09            | 0.886                  | 1.128                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -0.05            | 0.092                  | 0.117                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Cheek   | 0mm      | DSI5        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | 0.19             | 0.267                  | 0.352                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Tilted  | 0mm      | DSI5        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | 0.12             | 0.056                  | 0.073                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | DSI5        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | -0.13            | 0.737                  | 0.972                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Tilted   | 0mm      | DSI5        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | 0.16             | 0.074                  | 0.097                  |
|          | N5_Ant 0  | 20M      | QPSK       | 100     | 0         | DFT-15 | Left Cheek    | 0mm      | DSI5        | 167300 | 836.5       | 22.00               | 23.20               | 1.318                  | 0.06             | 0.531                  | 0.700                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI10/15    | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | -0.13            | 0.739                  | 0.899                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | DSI10/15    | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | -0.06            | 0.695                  | 0.869                  |
|          | N5_Ant 0  | 20M      | QPSK       | 100     | 0         | DFT-15 | Left Cheek    | 0mm      | DSI10/15    | 167300 | 836.5       | 21.77               | 22.70               | 1.239                  | 0.08             | 0.410                  | 0.508                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.07            | 0.131                  | 0.162                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.09            | 0.078                  | 0.097                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.02            | 0.126                  | 0.156                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | 0.1              | 0.064                  | 0.079                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.17            | 0.132                  | 0.167                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.11            | 0.069                  | 0.087                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | 0.19             | 0.136                  | 0.172                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.13            | 0.059                  | 0.075                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | -0.02            | 0.232                  | 0.282                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | 0.15             | 0.106                  | 0.129                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | -0.02            | 0.139                  | 0.169                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | 0.01             | 0.100                  | 0.121                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Right Cheek   | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | -0.06            | 0.213                  | 0.260                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Right Tilted  | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | 0.1              | 0.124                  | 0.151                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Cheek    | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | -0.07            | 0.128                  | 0.156                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Tilted   | 0mm      | DSI5/10/15  | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | 0.04             | 0.103                  | 0.126                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Right Cheek   | 0mm      | DSI5        | 349000 | 1745        | 20.41               | 21.20               | 1.199                  | 0.17             | 0.915                  | 1.098                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Right Tilted  | 0mm      | DSI5        | 349000 | 1745        | 20.41               | 21.20               | 1.199                  | 0.15             | 0.279                  | 0.335                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5        | 349000 | 1745        | 20.41               | 21.20               | 1.199                  | -0.11            | 0.217                  | 0.260                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Tilted   | 0mm      | DSI5        | 349000 | 1745        | 20.41               | 21.20               | 1.199                  | -0.14            | 0.105                  | 0.126                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Right Cheek   | 0mm      | DSI5        | 349000 | 1745        | 20.31               | 21.20               | 1.227                  | -0.13            | 0.853                  | 1.047                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Right Tilted  | 0mm      | DSI5        | 349000 | 1745        | 20.31               | 21.20               | 1.227                  | -0.07            | 0.342                  | 0.420                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Cheek    | 0mm      | DSI5        | 349000 | 1745        | 20.31               | 21.20               | 1.227                  | 0.1              | 0.277                  | 0.340                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Tilted   | 0mm      | DSI5        | 349000 | 1745        | 20.31               | 21.20               | 1.227                  | -0.14            | 0.114                  | 0.140                  |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |           |     |      |     |    |        |              |     |            |        |        |       |       |       |       |       |       |
|----|-----------|-----|------|-----|----|--------|--------------|-----|------------|--------|--------|-------|-------|-------|-------|-------|-------|
|    | N66_Ant 2 | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | DSI5       | 349000 | 1745   | 20.27 | 21.20 | 1.239 | 0.01  | 0.656 | 0.813 |
|    | N66_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 349000 | 1745   | 19.83 | 20.70 | 1.222 | 0.02  | 0.713 | 0.871 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 349000 | 1745   | 19.72 | 20.70 | 1.253 | -0.05 | 0.698 | 0.875 |
|    | N66_Ant 2 | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 349000 | 1745   | 19.71 | 20.70 | 1.256 | 0.11  | 0.558 | 0.701 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5       | 349000 | 1745   | 15.62 | 16.70 | 1.282 | 0.14  | 0.723 | 0.927 |
| 18 | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5       | 349000 | 1745   | 15.62 | 16.70 | 1.282 | -0.06 | 0.885 | 1.135 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5       | 349000 | 1745   | 15.62 | 16.70 | 1.282 | -0.13 | 0.434 | 0.557 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5       | 349000 | 1745   | 15.62 | 16.70 | 1.282 | 0.01  | 0.568 | 0.728 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI5       | 349000 | 1745   | 15.58 | 16.70 | 1.294 | -0.15 | 0.659 | 0.853 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | DSI5       | 349000 | 1745   | 15.58 | 16.70 | 1.294 | -0.19 | 0.692 | 0.896 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | DSI5       | 349000 | 1745   | 15.58 | 16.70 | 1.294 | 0.06  | 0.438 | 0.567 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | DSI5       | 349000 | 1745   | 15.58 | 16.70 | 1.294 | 0.07  | 0.476 | 0.616 |
|    | N66_Ant 5 | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | DSI5       | 349000 | 1745   | 15.55 | 16.70 | 1.303 | 0.03  | 0.536 | 0.698 |
|    | N66_Ant 5 | 40M | QPSK | 216 | 0  | DFT-15 | Right Tilted | 0mm | DSI5       | 349000 | 1745   | 15.55 | 16.70 | 1.303 | -0.16 | 0.578 | 0.753 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI10/15   | 349000 | 1745   | 14.65 | 15.70 | 1.274 | -0.03 | 0.581 | 0.740 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | DSI10/15   | 349000 | 1745   | 14.64 | 15.70 | 1.276 | -0.19 | 0.558 | 0.712 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | 0.04  | 0.029 | 0.037 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.14 | 0.020 | 0.025 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.07 | 0.024 | 0.030 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.04 | 0.022 | 0.027 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.19 | 0.030 | 0.039 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.08 | 0.025 | 0.032 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.18 | 0.024 | 0.031 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.17 | 0.021 | 0.027 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | -0.17 | 0.123 | 0.158 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | -0.13 | 0.051 | 0.065 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | -0.09 | 0.180 | 0.231 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | -0.13 | 0.059 | 0.076 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | -0.18 | 0.115 | 0.148 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | 0.16  | 0.052 | 0.067 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | 0.18  | 0.117 | 0.150 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | -0.04 | 0.064 | 0.082 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5       | 376500 | 1882.5 | 18.80 | 19.70 | 1.230 | 0.04  | 0.737 | 0.907 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5       | 376500 | 1882.5 | 18.80 | 19.70 | 1.230 | 0.07  | 0.308 | 0.379 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5       | 376500 | 1882.5 | 18.80 | 19.70 | 1.230 | 0.15  | 0.213 | 0.262 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5       | 376500 | 1882.5 | 18.80 | 19.70 | 1.230 | -0.15 | 0.106 | 0.130 |
| 19 | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI5       | 376500 | 1882.5 | 18.61 | 19.70 | 1.285 | 0.08  | 0.867 | 1.114 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | DSI5       | 376500 | 1882.5 | 18.61 | 19.70 | 1.285 | -0.07 | 0.328 | 0.422 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | DSI5       | 376500 | 1882.5 | 18.61 | 19.70 | 1.285 | -0.14 | 0.217 | 0.279 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | DSI5       | 376500 | 1882.5 | 18.61 | 19.70 | 1.285 | 0.06  | 0.105 | 0.135 |
|    | N25_Ant 2 | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | DSI5       | 376500 | 1882.5 | 18.60 | 19.70 | 1.288 | 0.13  | 0.648 | 0.835 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 376500 | 1882.5 | 17.76 | 18.70 | 1.242 | -0.17 | 0.666 | 0.827 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 376500 | 1882.5 | 17.67 | 18.70 | 1.268 | 0.06  | 0.621 | 0.787 |
|    | N25_Ant 2 | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | DSI10/15   | 376500 | 1882.5 | 17.62 | 18.70 | 1.282 | 0.01  | 0.571 | 0.732 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 462000 | 2310   | 20.17 | 21.20 | 1.268 | 0.06  | 0.153 | 0.194 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 462000 | 2310   | 20.17 | 21.20 | 1.268 | 0.08  | 0.062 | 0.078 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 462000 | 2310   | 20.17 | 21.20 | 1.268 | -0.15 | 0.104 | 0.132 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 462000 | 2310   | 20.17 | 21.20 | 1.268 | 0.17  | 0.047 | 0.060 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Right Cheek  | 0mm | DSI5/10/15 | 462000 | 2310   | 20.16 | 21.20 | 1.271 | -0.05 | 0.109 | 0.138 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Right Tilted | 0mm | DSI5/10/15 | 462000 | 2310   | 20.16 | 21.20 | 1.271 | 0.16  | 0.058 | 0.074 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Left Cheek   | 0mm | DSI5/10/15 | 462000 | 2310   | 20.16 | 21.20 | 1.271 | -0.15 | 0.103 | 0.131 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Left Tilted  | 0mm | DSI5/10/15 | 462000 | 2310   | 20.16 | 21.20 | 1.271 | 0.17  | 0.042 | 0.054 |
| 20 | N30_Ant 2 | 10M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | DSI5       | 462000 | 2310   | 21.97 | 23.20 | 1.327 | -0.06 | 0.896 | 1.189 |
|    | N30_Ant 2 | 10M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | DSI5       | 462000 | 2310   | 21.97 | 23.20 | 1.327 | 0.16  | 0.410 | 0.544 |
|    | N30_Ant 2 | 10M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | DSI5       | 462000 | 2310   | 21.97 | 23.20 | 1.327 | -0.09 | 0.269 | 0.357 |
|    | N30_Ant 2 | 10M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | DSI5       | 462000 | 2310   | 21.97 | 23.20 | 1.327 | 0.14  | 0.167 | 0.222 |







# FCC SAR TEST REPORT

Report No. : FA101920

|    |                |      |      |     |    |        |              |     |            |        |         |       |       |       |       |       |       |
|----|----------------|------|------|-----|----|--------|--------------|-----|------------|--------|---------|-------|-------|-------|-------|-------|-------|
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Left Cheek   | 0mm | DSI5       | 633334 | 3500.01 | 14.41 | 15.20 | 1.199 | -0.14 | 0.349 | 0.419 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Left Tilted  | 0mm | DSI5       | 633334 | 3500.01 | 14.41 | 15.20 | 1.199 | -0.13 | 0.499 | 0.599 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Cheek  | 0mm | DSI5       | 633334 | 3500.01 | 14.32 | 15.20 | 1.225 | 0.16  | 0.766 | 0.938 |
| 24 | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI5       | 633334 | 3500.01 | 14.32 | 15.20 | 1.225 | -0.12 | 0.854 | 1.046 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Left Cheek   | 0mm | DSI5       | 633334 | 3500.01 | 14.32 | 15.20 | 1.225 | -0.16 | 0.344 | 0.421 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Left Tilted  | 0mm | DSI5       | 633334 | 3500.01 | 14.32 | 15.20 | 1.225 | 0.11  | 0.416 | 0.509 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Cheek  | 0mm | DSI5       | 633334 | 3500.01 | 14.29 | 15.20 | 1.233 | 0.05  | 0.760 | 0.937 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Tilted | 0mm | DSI5       | 633334 | 3500.01 | 14.29 | 15.20 | 1.233 | -0.16 | 0.791 | 0.975 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Right Tilted | 0mm | DSI10/15   | 633334 | 3500.01 | 13.89 | 14.70 | 1.205 | -0.1  | 0.732 | 0.882 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI10/15   | 633334 | 3500.01 | 13.86 | 14.70 | 1.213 | 0.19  | 0.788 | 0.956 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Tilted | 0mm | DSI10/15   | 633334 | 3500.01 | 13.77 | 14.70 | 1.239 | 0.01  | 0.794 | 0.984 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Right Cheek  | 0mm | DSI5       | 656000 | 3840    | 14.19 | 15.20 | 1.262 | -0.07 | 0.740 | 0.934 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Right Tilted | 0mm | DSI5       | 656000 | 3840    | 14.19 | 15.20 | 1.262 | -0.17 | 0.737 | 0.930 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Left Cheek   | 0mm | DSI5       | 656000 | 3840    | 14.19 | 15.20 | 1.262 | 0.09  | 0.361 | 0.456 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Left Tilted  | 0mm | DSI5       | 656000 | 3840    | 14.19 | 15.20 | 1.262 | -0.16 | 0.379 | 0.478 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Cheek  | 0mm | DSI5       | 656000 | 3840    | 14.10 | 15.20 | 1.288 | -0.19 | 0.755 | 0.973 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI5       | 656000 | 3840    | 14.10 | 15.20 | 1.288 | 0.15  | 0.726 | 0.935 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Left Cheek   | 0mm | DSI5       | 656000 | 3840    | 14.10 | 15.20 | 1.288 | 0.14  | 0.330 | 0.425 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Left Tilted  | 0mm | DSI5       | 656000 | 3840    | 14.10 | 15.20 | 1.288 | -0.03 | 0.308 | 0.397 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Cheek  | 0mm | DSI5       | 656000 | 3840    | 14.02 | 15.20 | 1.312 | 0.06  | 0.713 | 0.936 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Tilted | 0mm | DSI5       | 656000 | 3840    | 14.02 | 15.20 | 1.312 | 0.01  | 0.616 | 0.808 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Right Tilted | 0mm | DSI10/15   | 656000 | 3840    | 13.70 | 14.70 | 1.259 | -0.16 | 0.624 | 0.786 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI10/15   | 656000 | 3840    | 13.60 | 14.70 | 1.288 | -0.13 | 0.610 | 0.786 |
|    | N77(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Right Tilted | 0mm | DSI10/15   | 656000 | 3840    | 13.56 | 14.70 | 1.300 | 0.02  | 0.607 | 0.789 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Right Cheek  | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | 0.05  | 0.081 | 0.102 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Right Tilted | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | 0.12  | 0.040 | 0.050 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Left Cheek   | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | 0.02  | 0.030 | 0.038 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Left Tilted  | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | 0.14  | 0.018 | 0.023 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Right Cheek  | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | 0.09  | 0.106 | 0.133 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | 0.02  | 0.042 | 0.053 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Left Cheek   | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | -0.09 | 0.035 | 0.044 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Left Tilted  | 0mm | DSI5/10/15 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | 0.05  | 0.018 | 0.023 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Right Cheek  | 0mm | DSI5/10/15 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.05  | 0.029 | 0.037 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Right Tilted | 0mm | DSI5/10/15 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.12  | 0.026 | 0.033 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Left Cheek   | 0mm | DSI5/10/15 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.02  | 0.019 | 0.024 |
|    | N77_Ant 10     | 100M | QPSK | 1   | 1  | DFT-30 | Left Tilted  | 0mm | DSI5/10/15 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.14  | 0.018 | 0.023 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Right Cheek  | 0mm | DSI5/10/15 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | 0.09  | 0.034 | 0.044 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Right Tilted | 0mm | DSI5/10/15 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | 0.02  | 0.033 | 0.042 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Left Cheek   | 0mm | DSI5/10/15 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | -0.09 | 0.018 | 0.023 |
|    | N77_Ant 10     | 100M | QPSK | 135 | 69 | DFT-30 | Left Tilted  | 0mm | DSI5/10/15 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | 0.05  | 0.016 | 0.021 |



# FCC SAR TEST REPORT

Report No. : FA101920

## <5G NR SRS SAR>

| Plot No. | Band       | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Duty Cycle % | Pmax | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|--------------|------|------------------|------------------------|------------------------|
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.08            | 0.104                  | 0.044                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.08            | 0.044                  | 0.019                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.38               | 14           | 20.2 | 0.03             | 0.148                  | 0.063                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.18            | 0.071                  | 0.030                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.35               | 14           | 20.2 | -0.07            | 0.092                  | 0.039                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.35               | 14           | 20.2 | 0.04             | 0.034                  | 0.015                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.35               | 14           | 20.2 | -0.15            | 0.147                  | 0.063                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 15.35               | 14           | 20.2 | 0.04             | 0.056                  | 0.024                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 656000 | 3840        | 15.30               | 14           | 20.2 | -0.08            | 0.386                  | 0.167                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 656000 | 3840        | 15.30               | 14           | 20.2 | 0.18             | 0.062                  | 0.027                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 656000 | 3840        | 15.30               | 14           | 20.2 | 0.12             | 0.424                  | 0.183                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 656000 | 3840        | 15.30               | 14           | 20.2 | -0.16            | 0.127                  | 0.055                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 656000 | 3840        | 15.27               | 14           | 20.2 | 0.01             | 0.277                  | 0.121                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 656000 | 3840        | 15.27               | 14           | 20.2 | -0.15            | 0.056                  | 0.024                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 656000 | 3840        | 15.27               | 14           | 20.2 | 0.17             | 0.286                  | 0.125                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 656000 | 3840        | 15.27               | 14           | 20.2 | -0.16            | 0.108                  | 0.047                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.81               | 14           | 22.7 | 0.13             | 0.222                  | 0.191                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.81               | 14           | 22.7 | 0.03             | 0.185                  | 0.159                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.81               | 14           | 22.7 | -0.17            | 0.348                  | 0.300                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.81               | 14           | 22.7 | 0.03             | 0.435                  | 0.375                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.74               | 14           | 22.7 | 0.15             | 0.208                  | 0.182                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.74               | 14           | 22.7 | 0.05             | 0.205                  | 0.179                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.74               | 14           | 22.7 | 0.01             | 0.417                  | 0.365                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 633334 | 3500.01     | 14.74               | 14           | 22.7 | -0.18            | 0.454                  | 0.397                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 656000 | 3840        | 14.51               | 14           | 22.7 | 0.05             | 0.177                  | 0.163                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 656000 | 3840        | 14.51               | 14           | 22.7 | -0.08            | 0.135                  | 0.125                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 656000 | 3840        | 14.51               | 14           | 22.7 | 0                | 0.259                  | 0.239                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 656000 | 3840        | 14.51               | 14           | 22.7 | 0.14             | 0.266                  | 0.245                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Cheek   | 0mm      | DS15/10/15  | 656000 | 3840        | 14.45               | 14           | 22.7 | -0.08            | 0.126                  | 0.118                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Tilted  | 0mm      | DS15/10/15  | 656000 | 3840        | 14.45               | 14           | 22.7 | 0.13             | 0.132                  | 0.124                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Cheek    | 0mm      | DS15/10/15  | 656000 | 3840        | 14.45               | 14           | 22.7 | 0.16             | 0.234                  | 0.219                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Tilted   | 0mm      | DS15/10/15  | 656000 | 3840        | 14.45               | 14           | 22.7 | 0.04             | 0.297                  | 0.278                  |

**<Bluetooth SAR>**

| 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) |
|----------|-----------|-----------|---------------|----------|---------|------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Ant 4   | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | 0.09             | 0.239                  | 0.434                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Ant 4   | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | -0.05            | 0.314                  | 0.570                  |
| 25       | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | -0.1             | 0.496                  | <b>0.900</b>           |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Ant 4   | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | 0.05             | 0.434                  | 0.787                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Standalone(Full) | 0   | 2402        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | -0.1             | 0.373                  | 0.725                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Standalone(Full) | 78  | 2480        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | 0.01             | 0.290                  | 0.564                  |
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Ant 4   | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | 0.06             | 0.067                  | 0.101                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Ant 4   | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | 0.01             | 0.052                  | 0.078                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.02            | 0.102                  | 0.154                  |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Ant 4   | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.11            | 0.101                  | 0.152                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Simultaneous     | 0   | 2402        | 8.80                | 10.00               | 1.318                  | 76.1         | 1.314                     | -0.15            | 0.085                  | 0.147                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 4   | Simultaneous     | 78  | 2480        | 9.20                | 10.00               | 1.202                  | 76.1         | 1.314                     | 0.18             | 0.086                  | 0.136                  |
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Ant 6   | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | -0.02            | 0.277                  | 0.538                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Ant 6   | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | 0.08             | 0.054                  | 0.105                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | -0.05            | 0.313                  | 0.608                  |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Ant 6   | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | -0.05            | 0.099                  | 0.192                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Standalone(Full) | 0   | 2402        | 15.10               | 17.00               | 1.549                  | 76.1         | 1.314                     | 0.11             | 0.250                  | 0.509                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Standalone(Full) | 78  | 2480        | 15.20               | 17.00               | 1.514                  | 76.1         | 1.314                     | 0.02             | 0.209                  | 0.416                  |
|          | Bluetooth | DH5 1Mbps | Right Cheek   | 0mm      | Ant 6   | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | 0.15             | 0.061                  | 0.106                  |
|          | Bluetooth | DH5 1Mbps | Right Tilted  | 0mm      | Ant 6   | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.08            | 0.021                  | 0.036                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.08            | 0.098                  | 0.170                  |
|          | Bluetooth | DH5 1Mbps | Left Tilted   | 0mm      | Ant 6   | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.12            | 0.033                  | 0.057                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Simultaneous     | 0   | 2402        | 10.40               | 12.00               | 1.445                  | 76.1         | 1.314                     | 0.04             | 0.088                  | 0.167                  |
|          | Bluetooth | DH5 1Mbps | Left Cheek    | 0mm      | Ant 6   | Simultaneous     | 78  | 2480        | 10.00               | 12.00               | 1.585                  | 76.1         | 1.314                     | -0.01            | 0.080                  | 0.167                  |

**<WLAN2.4G SAR>**

| 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) |
|----------|------------|---------------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 4+6 | Standalone      | 6   | 2437        | 17.31               | 19.00               | 1.476                  | 100          | 1.000                     | 0.05             | 0.362                  | 0.534                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 4+6 | Standalone      | 6   | 2437        | 17.31               | 19.00               | 1.476                  | 100          | 1.000                     | 0.13             | 0.406                  | 0.599                  |
| 26       | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Standalone      | 6   | 2437        | 17.31               | 19.00               | 1.476                  | 100          | 1.000                     | 0.05             | 0.778                  | <b>1.148</b>           |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4+6 | Standalone      | 6   | 2437        | 17.31               | 19.00               | 1.476                  | 100          | 1.000                     | 0.18             | 0.589                  | 0.869                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Standalone      | 1   | 2412        | 17.16               | 19.00               | 1.528                  | 100          | 1.000                     | 0.12             | 0.664                  | 1.014                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Standalone      | 11  | 2462        | 17.11               | 19.00               | 1.545                  | 100          | 1.000                     | -0.04            | 0.726                  | 1.122                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4+6 | Standalone      | 1   | 2412        | 17.16               | 19.00               | 1.528                  | 100          | 1.000                     | 0.09             | 0.525                  | 0.802                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4+6 | Standalone      | 11  | 2462        | 17.11               | 19.00               | 1.545                  | 100          | 1.000                     | -0.02            | 0.551                  | 0.851                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 4+6 | Simultaneous    | 6   | 2437        | 11.51               | 13.00               | 1.409                  | 100          | 1.000                     | -0.08            | 0.060                  | 0.085                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 4+6 | Simultaneous    | 6   | 2437        | 11.51               | 13.00               | 1.409                  | 100          | 1.000                     | -0.18            | 0.071                  | 0.100                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Simultaneous    | 6   | 2437        | 11.51               | 13.00               | 1.409                  | 100          | 1.000                     | 0.02             | 0.120                  | 0.169                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4+6 | Simultaneous    | 6   | 2437        | 11.51               | 13.00               | 1.409                  | 100          | 1.000                     | -0.18            | 0.106                  | 0.149                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Simultaneous    | 1   | 2412        | 11.36               | 13.00               | 1.459                  | 100          | 1.000                     | -0.07            | 0.118                  | 0.172                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4+6 | Simultaneous    | 11  | 2462        | 11.36               | 13.00               | 1.459                  | 100          | 1.000                     | 0.1              | 0.114                  | 0.166                  |



**<WLAN5G SAR>**

| 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) |
|----------|------------|----------------------|---------------|----------|----------|------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5.3GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 13+9 | Standalone       | 58  | 5290        | 18.20               | 19.50               | 1.349                  | 100          | 1.000                     | 0.06             | 0.294                  | 0.397                  |
|          | WLAN5.3GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 13+9 | Standalone       | 58  | 5290        | 18.20               | 19.50               | 1.349                  | 100          | 1.000                     | 0.16             | 0.293                  | 0.395                  |
|          | WLAN5.3GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 13+9 | Standalone       | 58  | 5290        | 18.20               | 19.50               | 1.349                  | 100          | 1.000                     | 0.07             | 0.665                  | 0.897                  |
| 27       | WLAN5.3GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 13+9 | Standalone       | 58  | 5290        | 18.20               | 19.50               | 1.349                  | 100          | 1.000                     | 0.04             | 0.669                  | <b>0.902</b>           |
|          | WLAN5.3GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 13+9 | Simultaneous     | 50  | 5250        | 12.54               | 14.00               | 1.400                  | 100          | 1.000                     | -0.18            | 0.083                  | 0.116                  |
|          | WLAN5.3GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 13+9 | Simultaneous     | 50  | 5250        | 12.54               | 14.00               | 1.400                  | 100          | 1.000                     | 0.08             | 0.085                  | 0.119                  |
|          | WLAN5.3GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 13+9 | Simultaneous     | 50  | 5250        | 12.54               | 14.00               | 1.400                  | 100          | 1.000                     | 0                | 0.131                  | 0.183                  |
|          | WLAN5.3GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 13+9 | Simultaneous     | 50  | 5250        | 12.54               | 14.00               | 1.400                  | 100          | 1.000                     | -0.09            | 0.122                  | 0.171                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 13+9 | Standalone       | 106 | 5530        | 19.43               | 21.00               | 1.435                  | 100          | 1.000                     | 0.07             | 0.448                  | 0.643                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 13+9 | Standalone       | 106 | 5530        | 19.43               | 21.00               | 1.435                  | 100          | 1.000                     | 0.01             | 0.373                  | 0.535                  |
| 28       | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 13+9 | Standalone       | 106 | 5530        | 19.43               | 21.00               | 1.435                  | 100          | 1.000                     | -0.09            | 0.828                  | <b>1.189</b>           |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 13+9 | Standalone       | 106 | 5530        | 19.43               | 21.00               | 1.435                  | 100          | 1.000                     | 0.01             | 0.811                  | 1.164                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 13+9 | Standalone       | 122 | 5610        | 19.38               | 21.00               | 1.452                  | 100          | 1.000                     | -0.01            | 0.466                  | 0.677                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 13+9 | Standalone       | 122 | 5610        | 19.38               | 21.00               | 1.452                  | 100          | 1.000                     | 0.08             | 0.318                  | 0.462                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 13+9 | Standalone       | 122 | 5610        | 19.38               | 21.00               | 1.452                  | 100          | 1.000                     | -0.14            | 0.675                  | 0.980                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 13+9 | Standalone       | 122 | 5610        | 19.38               | 21.00               | 1.452                  | 100          | 1.000                     | 0.03             | 0.674                  | 0.979                  |
|          | WLAN5.5GHz | 802.11ac-VHT160 MCS0 | Right Cheek   | 0mm      | Ant 13+9 | Simultaneous     | 114 | 5570        | 13.56               | 15.00               | 1.393                  | 100          | 1.000                     | -0.12            | 0.095                  | 0.132                  |
|          | WLAN5.5GHz | 802.11ac-VHT160 MCS0 | Right Tilted  | 0mm      | Ant 13+9 | Simultaneous     | 114 | 5570        | 13.56               | 15.00               | 1.393                  | 100          | 1.000                     | -0.15            | 0.073                  | 0.102                  |
|          | WLAN5.5GHz | 802.11ac-VHT160 MCS0 | Left Cheek    | 0mm      | Ant 13+9 | Simultaneous     | 114 | 5570        | 13.56               | 15.00               | 1.393                  | 100          | 1.000                     | 0.10             | 0.132                  | 0.184                  |
|          | WLAN5.5GHz | 802.11ac-VHT160 MCS0 | Left Tilted   | 0mm      | Ant 13+9 | Simultaneous     | 114 | 5570        | 13.56               | 15.00               | 1.393                  | 100          | 1.000                     | -0.13            | 0.128                  | 0.178                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 13+9 | Standalone(Full) | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.06             | 0.291                  | 0.435                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 13+9 | Standalone(Full) | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | -0.11            | 0.258                  | 0.386                  |
| 29       | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 13+9 | Standalone(Full) | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | -0.1             | 0.687                  | <b>1.027</b>           |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 13+9 | Standalone(Full) | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.08             | 0.604                  | 0.903                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Right Cheek   | 0mm      | Ant 13+9 | Simultaneous     | 155 | 5775        | 12.80               | 14.50               | 1.479                  | 100          | 1.000                     | 0.12             | 0.058                  | 0.086                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Right Tilted  | 0mm      | Ant 13+9 | Simultaneous     | 155 | 5775        | 12.80               | 14.50               | 1.479                  | 100          | 1.000                     | 0.1              | 0.044                  | 0.065                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Left Cheek    | 0mm      | Ant 13+9 | Simultaneous     | 155 | 5775        | 12.80               | 14.50               | 1.479                  | 100          | 1.000                     | -0.11            | 0.115                  | 0.170                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0  | Left Tilted   | 0mm      | Ant 13+9 | Simultaneous     | 155 | 5775        | 12.80               | 14.50               | 1.479                  | 100          | 1.000                     | 0.06             | 0.109                  | 0.161                  |

**18.2 Hotspot SAR**

| Plot No. | Band          | Mode                   | Test Position | Gap (mm) | 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) |
|----------|---------------|------------------------|---------------|----------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Front         | 10mm     | DSI17       | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | -0.18            | 0.317                  | 0.395                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | -0.15            | 0.398                  | 0.495                  |
| 30       | GSM850_ANT 0  | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | 0.03             | 0.568                  | <b>0.707</b>           |
|          | GSM850_ANT 0  | DTM Multi-slot class 9 | Left Side     | 10mm     | DSI17       | 128 | 824.2       | 22.98               | 23.98               | 1.259                  | 0.09             | 0.511                  | 0.643                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Right Side    | 10mm     | DSI17       | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | 0.06             | 0.015                  | 0.019                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Top Side      | 10mm     | DSI17       | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | 0.01             | 0.014                  | 0.017                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 189 | 836.4       | 25.90               | 27.00               | 1.288                  | 0.08             | 0.546                  | 0.703                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 251 | 848.8       | 25.95               | 27.00               | 1.274                  | 0.14             | 0.539                  | 0.686                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Front         | 10mm     | DSI17       | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | 0.04             | 0.174                  | 0.219                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | -0.03            | 0.203                  | 0.256                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | -0.19            | 0.072                  | 0.091                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Right Side    | 10mm     | DSI17       | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | 0.03             | 0.151                  | 0.190                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Bottom Side   | 10mm     | DSI17       | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | 0.19             | 0.129                  | 0.162                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 128 | 824.2       | 26.65               | 27.80               | 1.303                  | 0.04             | 0.208                  | 0.271                  |
|          | GSM850_ANT 1  | DTM Multi-slot class 9 | Back          | 10mm     | DSI17       | 128 | 824.2       | 23.70               | 24.78               | 1.282                  | 0.07             | 0.195                  | 0.250                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 189 | 836.4       | 26.30               | 27.80               | 1.413                  | 0.18             | 0.191                  | 0.270                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Front         | 10mm     | DSI17       | 661 | 1880        | 23.91               | 24.80               | 1.227                  | -0.06            | 0.183                  | 0.225                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 661 | 1880        | 23.91               | 24.80               | 1.227                  | 0.1              | 0.301                  | 0.369                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 661 | 1880        | 23.91               | 24.80               | 1.227                  | -0.03            | 0.411                  | 0.504                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Right Side    | 10mm     | DSI17       | 661 | 1880        | 23.91               | 24.80               | 1.227                  | -0.03            | 0.018                  | 0.022                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Top Side      | 10mm     | DSI17       | 661 | 1880        | 23.91               | 24.80               | 1.227                  | 0.19             | 0.119                  | 0.146                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 512 | 1850.2      | 23.85               | 24.80               | 1.245                  | 0.12             | 0.419                  | 0.521                  |
|          | GSM1900_ANT 2 | DTM Multi-slot class 9 | Left Side     | 10mm     | DSI17       | 512 | 1850.2      | 20.46               | 21.78               | 1.355                  | 0.07             | 0.378                  | 0.512                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 810 | 1909.8      | 23.86               | 24.80               | 1.242                  | -0.19            | 0.394                  | 0.489                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Front         | 10mm     | DSI17       | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.17             | 0.322                  | 0.476                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Back          | 10mm     | DSI17       | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.04             | 0.409                  | 0.605                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Left Side     | 10mm     | DSI17       | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.08             | 0.197                  | 0.291                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Right Side    | 10mm     | DSI17       | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.16             | 0.069                  | 0.102                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Bottom Side   | 10mm     | DSI17       | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.17             | 0.501                  | 0.741                  |
| 31       | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Bottom Side   | 10mm     | DSI17       | 512 | 1850.2      | 23.00               | 24.80               | 1.514                  | -0.03            | 0.520                  | <b>0.787</b>           |
|          | GSM1900_ANT 3 | DTM Multi-slot class 9 | Bottom Side   | 10mm     | DSI17       | 512 | 1850.2      | 20.25               | 21.78               | 1.422                  | 0.02             | 0.423                  | 0.602                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Bottom Side   | 10mm     | DSI17       | 661 | 1880        | 22.99               | 24.80               | 1.517                  | -0.16            | 0.510                  | 0.774                  |



## &lt;WCDMA SAR&gt;

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | 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) |
|----------|----------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Front         | 10mm     | DS117       | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | 0.06             | 0.205                  | 0.254                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Back          | 10mm     | DS117       | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | -0.1             | 0.242                  | 0.300                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | -0.13            | 0.459                  | 0.569                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | -0.08            | 0.005                  | 0.006                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Top Side      | 10mm     | DS117       | 4132 | 826.4       | 20.87               | 21.80               | 1.239                  | 0.1              | 0.009                  | 0.011                  |
| 32       | WCDMA V_ANT 0  | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 4182 | 836.4       | 20.80               | 21.80               | 1.259                  | -0.04            | 0.497                  | 0.626                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 4233 | 846.6       | 20.81               | 21.80               | 1.256                  | -0.07            | 0.471                  | 0.592                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Front         | 10mm     | DS117       | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | -0.03            | 0.215                  | 0.253                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 10mm     | DS117       | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | 0.02             | 0.248                  | 0.292                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | 0.08             | 0.057                  | 0.067                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | -0.17            | 0.246                  | 0.290                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | 0.09             | 0.163                  | 0.192                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 10mm     | DS117       | 4182 | 836.4       | 24.08               | 24.80               | 1.180                  | 0.03             | 0.272                  | 0.321                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 10mm     | DS117       | 4233 | 846.6       | 24.08               | 24.80               | 1.180                  | 0.12             | 0.244                  | 0.288                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Front         | 10mm     | DS117       | 1413 | 1732.6      | 21.79               | 22.30               | 1.125                  | -0.01            | 0.191                  | 0.215                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Back          | 10mm     | DS117       | 1413 | 1732.6      | 21.79               | 22.30               | 1.125                  | 0.07             | 0.309                  | 0.348                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 1413 | 1732.6      | 21.79               | 22.30               | 1.125                  | 0.11             | 0.445                  | 0.500                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 1413 | 1732.6      | 21.79               | 22.30               | 1.125                  | 0.01             | 0.036                  | 0.040                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Top Side      | 10mm     | DS117       | 1413 | 1732.6      | 21.79               | 22.30               | 1.125                  | 0.1              | 0.034                  | 0.038                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 1312 | 1712.4      | 21.68               | 22.30               | 1.153                  | -0.16            | 0.397                  | 0.458                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 1513 | 1752.6      | 21.78               | 22.30               | 1.127                  | -0.08            | 0.551                  | 0.621                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Front         | 10mm     | DS117       | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | -0.11            | 0.340                  | 0.419                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Back          | 10mm     | DS117       | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | -0.18            | 0.358                  | 0.441                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | 0.06             | 0.223                  | 0.275                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | -0.14            | 0.137                  | 0.169                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | 0.18             | 0.444                  | 0.547                  |
| 33       | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 1312 | 1712.4      | 19.94               | 21.00               | 1.276                  | -0.17            | 0.520                  | 0.664                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 1513 | 1752.6      | 20.08               | 21.00               | 1.236                  | -0.04            | 0.469                  | 0.580                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Front         | 10mm     | DS117       | 9400 | 1880        | 20.63               | 21.30               | 1.167                  | 0.14             | 0.283                  | 0.330                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Back          | 10mm     | DS117       | 9400 | 1880        | 20.63               | 21.30               | 1.167                  | -0.05            | 0.428                  | 0.499                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 9400 | 1880        | 20.63               | 21.30               | 1.167                  | 0.01             | 0.562                  | 0.656                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 9400 | 1880        | 20.63               | 21.30               | 1.167                  | -                | n/a                    | n/a                    |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Top Side      | 10mm     | DS117       | 9400 | 1880        | 20.63               | 21.30               | 1.167                  | 0.15             | 0.048                  | 0.056                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 9262 | 1852.4      | 20.50               | 21.30               | 1.202                  | 0.12             | 0.545                  | 0.655                  |
| 34       | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 9538 | 1907.6      | 20.48               | 21.30               | 1.208                  | -0.1             | 0.615                  | 0.743                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Front         | 10mm     | DS117       | 9400 | 1880        | 20.27               | 21.30               | 1.268                  | -0.13            | 0.281                  | 0.356                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Back          | 10mm     | DS117       | 9400 | 1880        | 20.27               | 21.30               | 1.268                  | -0.01            | 0.385                  | 0.488                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Left Side     | 10mm     | DS117       | 9400 | 1880        | 20.27               | 21.30               | 1.268                  | -0.17            | 0.208                  | 0.264                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Right Side    | 10mm     | DS117       | 9400 | 1880        | 20.27               | 21.30               | 1.268                  | -0.04            | 0.072                  | 0.091                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 9400 | 1880        | 20.27               | 21.30               | 1.268                  | 0.17             | 0.491                  | 0.622                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 9262 | 1852.4      | 20.11               | 21.30               | 1.315                  | 0.01             | 0.540                  | 0.710                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 10mm     | DS117       | 9538 | 1907.6      | 20.14               | 21.30               | 1.306                  | -0.12            | 0.469                  | 0.613                  |



## &lt;FDD LTE SAR&gt;

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | 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) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 133322 | 683         | 22.95               | 24.00               | 1.274                  | -0.17            | 0.255                  | 0.325                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 133322 | 683         | 22.95               | 24.00               | 1.274                  | -0.16            | 0.406                  | 0.517                  |
| 35       | LTE Band 71_ANT 0 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 133322 | 683         | 22.95               | 24.00               | 1.274                  | -0.19            | 0.573                  | 0.730                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 133322 | 683         | 22.95               | 24.00               | 1.274                  | 0.01             | 0.038                  | 0.048                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | DSI17       | 133322 | 683         | 22.95               | 24.00               | 1.274                  | 0.05             | 0.014                  | 0.018                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | DSI17       | 133322 | 683         | 21.92               | 23.00               | 1.282                  | 0.08             | 0.203                  | 0.260                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | DSI17       | 133322 | 683         | 21.92               | 23.00               | 1.282                  | 0.06             | 0.293                  | 0.376                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | DSI17       | 133322 | 683         | 21.92               | 23.00               | 1.282                  | 0.14             | 0.475                  | 0.609                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | DSI17       | 133322 | 683         | 21.92               | 23.00               | 1.282                  | 0.06             | 0.029                  | 0.037                  |
|          | LTE Band 71_ANT 0 | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | DSI17       | 133322 | 683         | 21.92               | 23.00               | 1.282                  | -0.11            | 0.011                  | 0.014                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 133322 | 683         | 24.15               | 24.80               | 1.161                  | 0.03             | 0.180                  | 0.209                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 133322 | 683         | 24.15               | 24.80               | 1.161                  | -0.11            | 0.189                  | 0.220                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 133322 | 683         | 24.15               | 24.80               | 1.161                  | -0.19            | 0.089                  | 0.103                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 133322 | 683         | 24.15               | 24.80               | 1.161                  | 0.07             | 0.350                  | 0.407                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | DSI17       | 133322 | 683         | 24.15               | 24.80               | 1.161                  | -0.08            | 0.135                  | 0.157                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | DSI17       | 133322 | 683         | 23.10               | 23.80               | 1.175                  | 0.17             | 0.158                  | 0.186                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | DSI17       | 133322 | 683         | 23.10               | 23.80               | 1.175                  | -0.08            | 0.169                  | 0.199                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | DSI17       | 133322 | 683         | 23.10               | 23.80               | 1.175                  | -0.01            | 0.070                  | 0.082                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | DSI17       | 133322 | 683         | 23.10               | 23.80               | 1.175                  | 0.19             | 0.301                  | 0.354                  |
|          | LTE Band 71_ANT 1 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | DSI17       | 133322 | 683         | 23.10               | 23.80               | 1.175                  | -0.08            | 0.114                  | 0.134                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 23095  | 707.5       | 20.31               | 21.00               | 1.172                  | -0.13            | 0.193                  | 0.226                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 23095  | 707.5       | 20.31               | 21.00               | 1.172                  | -0.19            | 0.230                  | 0.270                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 23095  | 707.5       | 20.31               | 21.00               | 1.172                  | 0.11             | 0.371                  | 0.435                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 23095  | 707.5       | 20.31               | 21.00               | 1.172                  | 0.09             | 0.014                  | 0.016                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | DSI17       | 23095  | 707.5       | 20.31               | 21.00               | 1.172                  | 0.04             | 0.007                  | 0.009                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | DSI17       | 23095  | 707.5       | 20.26               | 21.00               | 1.186                  | -0.01            | 0.189                  | 0.224                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | DSI17       | 23095  | 707.5       | 20.26               | 21.00               | 1.186                  | 0.14             | 0.230                  | 0.273                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | DSI17       | 23095  | 707.5       | 20.26               | 21.00               | 1.186                  | 0.18             | 0.358                  | 0.425                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | DSI17       | 23095  | 707.5       | 20.26               | 21.00               | 1.186                  | -0.19            | 0.013                  | 0.015                  |
|          | LTE Band 12_ANT 0 | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | DSI17       | 23095  | 707.5       | 20.26               | 21.00               | 1.186                  | 0.18             | 0.007                  | 0.008                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 23095  | 707.5       | 23.92               | 24.80               | 1.225                  | -0.15            | 0.195                  | 0.239                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 23095  | 707.5       | 23.92               | 24.80               | 1.225                  | -0.19            | 0.224                  | 0.274                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 23095  | 707.5       | 23.92               | 24.80               | 1.225                  | 0.18             | 0.095                  | 0.116                  |
| 36       | LTE Band 12_ANT 1 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 23095  | 707.5       | 23.92               | 24.80               | 1.225                  | 0.16             | 0.421                  | 0.516                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | DSI17       | 23095  | 707.5       | 23.92               | 24.80               | 1.225                  | -0.05            | 0.181                  | 0.222                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | DSI17       | 23095  | 707.5       | 22.95               | 23.80               | 1.216                  | -0.07            | 0.155                  | 0.189                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | DSI17       | 23095  | 707.5       | 22.95               | 23.80               | 1.216                  | 0.14             | 0.175                  | 0.213                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | DSI17       | 23095  | 707.5       | 22.95               | 23.80               | 1.216                  | -0.14            | 0.073                  | 0.089                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | DSI17       | 23095  | 707.5       | 22.95               | 23.80               | 1.216                  | -0.05            | 0.315                  | 0.383                  |
|          | LTE Band 12_ANT 1 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | DSI17       | 23095  | 707.5       | 22.95               | 23.80               | 1.216                  | -0.14            | 0.143                  | 0.174                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 23230  | 782         | 20.06               | 21.00               | 1.242                  | -0.11            | 0.210                  | 0.261                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 23230  | 782         | 20.06               | 21.00               | 1.242                  | 0.11             | 0.260                  | 0.323                  |
| 37       | LTE Band 13_ANT 0 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 23230  | 782         | 20.06               | 21.00               | 1.242                  | 0.03             | 0.420                  | 0.521                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 23230  | 782         | 20.06               | 21.00               | 1.242                  | -0.17            | 0.030                  | 0.038                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | DSI17       | 23230  | 782         | 20.06               | 21.00               | 1.242                  | -0.17            | 0.008                  | 0.009                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | DSI17       | 23230  | 782         | 20.01               | 21.00               | 1.256                  | -0.03            | 0.220                  | 0.276                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | DSI17       | 23230  | 782         | 20.01               | 21.00               | 1.256                  | 0.15             | 0.265                  | 0.333                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | DSI17       | 23230  | 782         | 20.01               | 21.00               | 1.256                  | -0.14            | 0.378                  | 0.475                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | DSI17       | 23230  | 782         | 20.01               | 21.00               | 1.256                  | -0.12            | 0.031                  | 0.039                  |
|          | LTE Band 13_ANT 0 | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | DSI17       | 23230  | 782         | 20.01               | 21.00               | 1.256                  | 0.04             | 0.007                  | 0.009                  |
|          | LTE Band 13_ANT 1 | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | DSI17       | 23230  | 782         | 23.75               | 24.80               | 1.274                  | 0.1              | 0.189                  | 0.241                  |
|          | LTE Band 13_ANT 1 | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | DSI17       | 23230  | 782         | 23.75               | 24.80               | 1.274                  | -0.19            | 0.262                  | 0.334                  |
|          | LTE Band 13_ANT 1 | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | DSI17       | 23230  | 782         | 23.75               | 24.80               | 1.274                  | 0.19             | 0.130                  | 0.166                  |
|          | LTE Band 13_ANT 1 | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | DSI17       | 23230  | 782         | 23.75               | 24.80               | 1.274                  | 0.18             | 0.360                  | 0.458                  |
|          | LTE Band 13_ANT 1 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | DSI17       | 23230  | 782         | 23.75               | 24.80               | 1.274                  | -0.09            | 0.191                  | 0.243                  |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |    |   |             |      |       |        |       |       |       |       |       |       |       |
|----|-------------------|-----|------|----|---|-------------|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25 | 0 | Front       | 10mm | DSI17 | 23230  | 782   | 22.67 | 23.80 | 1.297 | -0.12 | 0.157 | 0.204 |
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25 | 0 | Back        | 10mm | DSI17 | 23230  | 782   | 22.67 | 23.80 | 1.297 | -0.12 | 0.194 | 0.252 |
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25 | 0 | Left Side   | 10mm | DSI17 | 23230  | 782   | 22.67 | 23.80 | 1.297 | 0.1   | 0.075 | 0.097 |
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25 | 0 | Right Side  | 10mm | DSI17 | 23230  | 782   | 22.67 | 23.80 | 1.297 | -0.1  | 0.211 | 0.274 |
|    | LTE Band 13_ANT 1 | 10M | QPSK | 25 | 0 | Bottom Side | 10mm | DSI17 | 23230  | 782   | 22.67 | 23.80 | 1.297 | 0.17  | 0.153 | 0.198 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 26865  | 831.5 | 20.27 | 21.00 | 1.183 | 0.16  | 0.156 | 0.185 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26865  | 831.5 | 20.27 | 21.00 | 1.183 | 0.01  | 0.199 | 0.235 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26865  | 831.5 | 20.27 | 21.00 | 1.183 | 0.18  | 0.323 | 0.382 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 26865  | 831.5 | 20.27 | 21.00 | 1.183 | 0.03  | 0.009 | 0.011 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 26865  | 831.5 | 20.27 | 21.00 | 1.183 | 0.01  | 0.005 | 0.006 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26765  | 821.5 | 20.05 | 21.00 | 1.245 | 0.12  | 0.334 | 0.416 |
| 38 | LTE Band 26_ANT 0 | 15M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26965  | 841.5 | 20.07 | 21.00 | 1.239 | 0.05  | 0.353 | 0.437 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36 | 0 | Front       | 10mm | DSI17 | 26865  | 831.5 | 20.12 | 21.00 | 1.225 | 0.08  | 0.150 | 0.184 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36 | 0 | Back        | 10mm | DSI17 | 26865  | 831.5 | 20.12 | 21.00 | 1.225 | 0.18  | 0.177 | 0.217 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36 | 0 | Left Side   | 10mm | DSI17 | 26865  | 831.5 | 20.12 | 21.00 | 1.225 | 0.09  | 0.285 | 0.349 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36 | 0 | Right Side  | 10mm | DSI17 | 26865  | 831.5 | 20.12 | 21.00 | 1.225 | 0.01  | 0.008 | 0.010 |
|    | LTE Band 26_ANT 0 | 15M | QPSK | 36 | 0 | Top Side    | 10mm | DSI17 | 26865  | 831.5 | 20.12 | 21.00 | 1.225 | 0.06  | 0.005 | 0.006 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | -0.13 | 0.211 | 0.263 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.08  | 0.226 | 0.281 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.09  | 0.069 | 0.086 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | -0.04 | 0.172 | 0.214 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 26865  | 831.5 | 23.85 | 24.80 | 1.245 | 0.19  | 0.142 | 0.177 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26765  | 821.5 | 23.65 | 24.80 | 1.303 | -0.13 | 0.206 | 0.268 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26965  | 841.5 | 23.62 | 24.80 | 1.312 | -0.13 | 0.245 | 0.321 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36 | 0 | Front       | 10mm | DSI17 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | -0.04 | 0.166 | 0.212 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36 | 0 | Back        | 10mm | DSI17 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | -0.16 | 0.172 | 0.220 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36 | 0 | Left Side   | 10mm | DSI17 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | -0.1  | 0.058 | 0.074 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36 | 0 | Right Side  | 10mm | DSI17 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | -0.11 | 0.155 | 0.198 |
|    | LTE Band 26_ANT 1 | 15M | QPSK | 36 | 0 | Bottom Side | 10mm | DSI17 | 26865  | 831.5 | 22.74 | 23.80 | 1.276 | 0.17  | 0.106 | 0.135 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 132322 | 1745  | 21.33 | 22.00 | 1.167 | -0.06 | 0.158 | 0.184 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 132322 | 1745  | 21.33 | 22.00 | 1.167 | 0.17  | 0.243 | 0.284 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745  | 21.33 | 22.00 | 1.167 | -0.17 | 0.374 | 0.436 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745  | 21.33 | 22.00 | 1.167 | 0.06  | 0.035 | 0.041 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 132322 | 1745  | 21.33 | 22.00 | 1.167 | 0.02  | 0.032 | 0.037 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132072 | 1720  | 21.27 | 22.00 | 1.183 | 0.06  | 0.355 | 0.420 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132572 | 1770  | 21.18 | 22.00 | 1.208 | 0.04  | 0.495 | 0.598 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 132322 | 1745  | 21.19 | 22.00 | 1.205 | -0.01 | 0.163 | 0.196 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 132322 | 1745  | 21.19 | 22.00 | 1.205 | 0.16  | 0.246 | 0.296 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745  | 21.19 | 22.00 | 1.205 | 0.01  | 0.393 | 0.474 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745  | 21.19 | 22.00 | 1.205 | 0.03  | 0.048 | 0.058 |
|    | LTE Band 66_ANT 2 | 20M | QPSK | 50 | 0 | Top Side    | 10mm | DSI17 | 132322 | 1745  | 21.19 | 22.00 | 1.205 | 0.06  | 0.026 | 0.031 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | -0.1  | 0.313 | 0.392 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | -0.07 | 0.333 | 0.417 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | 0.02  | 0.187 | 0.234 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | 0.15  | 0.111 | 0.139 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 132322 | 1745  | 20.32 | 21.30 | 1.253 | 0.19  | 0.437 | 0.548 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 132072 | 1720  | 20.12 | 21.30 | 1.312 | -0.11 | 0.426 | 0.559 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 132572 | 1770  | 20.21 | 21.30 | 1.285 | 0.13  | 0.465 | 0.598 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | 0.13  | 0.325 | 0.408 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | 0.04  | 0.344 | 0.432 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | -0.06 | 0.185 | 0.232 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | 0.02  | 0.111 | 0.139 |
|    | LTE Band 66_ANT 3 | 20M | QPSK | 50 | 0 | Bottom Side | 10mm | DSI17 | 132322 | 1745  | 20.31 | 21.30 | 1.256 | 0.07  | 0.425 | 0.534 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 132322 | 1745  | 18.08 | 18.80 | 1.180 | 0.11  | 0.281 | 0.332 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 132322 | 1745  | 18.08 | 18.80 | 1.180 | 0     | 0.335 | 0.395 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745  | 18.08 | 18.80 | 1.180 | -0.04 | 0.053 | 0.063 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745  | 18.08 | 18.80 | 1.180 | -0.01 | 0.041 | 0.048 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 132322 | 1745  | 18.08 | 18.80 | 1.180 | -0.18 | 0.579 | 0.683 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 132072 | 1720  | 18.06 | 18.80 | 1.186 | -0.09 | 0.547 | 0.649 |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |    |   |             |      |       |        |      |       |       |       |       |       |       |
|----|-------------------|-----|------|----|---|-------------|------|-------|--------|------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 132572 | 1770 | 18.07 | 18.80 | 1.183 | -0.02 | 0.426 | 0.504 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 132322 | 1745 | 18.07 | 18.80 | 1.183 | 0.11  | 0.286 | 0.338 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 132322 | 1745 | 18.07 | 18.80 | 1.183 | -0.18 | 0.371 | 0.439 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745 | 18.07 | 18.80 | 1.183 | 0.12  | 0.049 | 0.058 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745 | 18.07 | 18.80 | 1.183 | 0.15  | 0.035 | 0.041 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50 | 0 | Top Side    | 10mm | DSI17 | 132322 | 1745 | 18.07 | 18.80 | 1.183 | -0.1  | 0.548 | 0.648 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | 0.06  | 0.241 | 0.299 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | 0.18  | 0.228 | 0.282 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.14 | 0.009 | 0.011 |
| 39 | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.07 | 0.567 | 0.702 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 132322 | 1745 | 20.87 | 21.80 | 1.239 | -0.1  | 0.078 | 0.097 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132072 | 1720 | 20.85 | 21.80 | 1.245 | -0.18 | 0.376 | 0.468 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 132572 | 1770 | 20.84 | 21.80 | 1.247 | 0.16  | 0.409 | 0.510 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.08 | 0.222 | 0.276 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.13 | 0.220 | 0.274 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.09 | 0.008 | 0.010 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | 0.06  | 0.557 | 0.693 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50 | 0 | Bottom Side | 10mm | DSI17 | 132322 | 1745 | 20.85 | 21.80 | 1.245 | -0.19 | 0.069 | 0.086 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 26340  | 1880 | 22.20 | 22.80 | 1.148 | -0.07 | 0.320 | 0.367 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26340  | 1880 | 22.20 | 22.80 | 1.148 | 0.02  | 0.419 | 0.481 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26340  | 1880 | 22.20 | 22.80 | 1.148 | -0.01 | 0.591 | 0.679 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 26340  | 1880 | 22.20 | 22.80 | 1.148 | -0.18 | 0.020 | 0.022 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 26340  | 1880 | 22.20 | 22.80 | 1.148 | -0.11 | 0.091 | 0.104 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26140  | 1860 | 22.15 | 22.80 | 1.161 | 0.06  | 0.570 | 0.662 |
| 40 | LTE Band 25_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26590  | 1905 | 22.08 | 22.80 | 1.180 | 0.02  | 0.654 | 0.772 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 26340  | 1880 | 21.96 | 22.80 | 1.213 | -0.05 | 0.281 | 0.341 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 26340  | 1880 | 21.96 | 22.80 | 1.213 | -0.08 | 0.421 | 0.511 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 26340  | 1880 | 21.96 | 22.80 | 1.213 | -0.12 | 0.499 | 0.605 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 26340  | 1880 | 21.96 | 22.80 | 1.213 | 0.08  | 0.000 | 0.000 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50 | 0 | Top Side    | 10mm | DSI17 | 26340  | 1880 | 21.96 | 22.80 | 1.213 | -0.07 | 0.160 | 0.194 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0.13  | 0.255 | 0.346 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0     | 0.335 | 0.454 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0.02  | 0.189 | 0.256 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | -0.02 | 0.000 | 0.000 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 26340  | 1880 | 19.98 | 21.30 | 1.355 | 0.05  | 0.445 | 0.603 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 26140  | 1860 | 19.78 | 21.30 | 1.419 | 0.1   | 0.510 | 0.724 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 26590  | 1905 | 19.86 | 21.30 | 1.393 | 0.03  | 0.484 | 0.674 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | -0.13 | 0.285 | 0.398 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | -0.02 | 0.298 | 0.416 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | -0.12 | 0.190 | 0.265 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | -0.1  | 0.065 | 0.091 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50 | 0 | Bottom Side | 10mm | DSI17 | 26340  | 1880 | 19.85 | 21.30 | 1.396 | 0.15  | 0.440 | 0.614 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 27710  | 2310 | 20.25 | 21.00 | 1.189 | 0.06  | 0.135 | 0.160 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 27710  | 2310 | 20.25 | 21.00 | 1.189 | 0.04  | 0.203 | 0.241 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 27710  | 2310 | 20.25 | 21.00 | 1.189 | 0.1   | 0.341 | 0.405 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 27710  | 2310 | 20.25 | 21.00 | 1.189 | -0.17 | 0.008 | 0.009 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 27710  | 2310 | 20.25 | 21.00 | 1.189 | 0.02  | 0.051 | 0.061 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25 | 0 | Front       | 10mm | DSI17 | 27710  | 2310 | 20.18 | 21.00 | 1.208 | 0.14  | 0.125 | 0.151 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25 | 0 | Back        | 10mm | DSI17 | 27710  | 2310 | 20.18 | 21.00 | 1.208 | 0.01  | 0.182 | 0.220 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25 | 0 | Left Side   | 10mm | DSI17 | 27710  | 2310 | 20.18 | 21.00 | 1.208 | -0.19 | 0.270 | 0.326 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25 | 0 | Right Side  | 10mm | DSI17 | 27710  | 2310 | 20.18 | 21.00 | 1.208 | 0.03  | 0.070 | 0.085 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25 | 0 | Top Side    | 10mm | DSI17 | 27710  | 2310 | 20.18 | 21.00 | 1.208 | 0.04  | 0.041 | 0.050 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 27710  | 2310 | 21.41 | 22.80 | 1.377 | 0.14  | 0.408 | 0.562 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 27710  | 2310 | 21.41 | 22.80 | 1.377 | -0.02 | 0.417 | 0.574 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 27710  | 2310 | 21.41 | 22.80 | 1.377 | 0.12  | 0.212 | 0.292 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 27710  | 2310 | 21.41 | 22.80 | 1.377 | -0.12 | 0.099 | 0.136 |
| 41 | LTE Band 30_ANT 3 | 10M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 27710  | 2310 | 21.41 | 22.80 | 1.377 | -0.13 | 0.578 | 0.796 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25 | 0 | Front       | 10mm | DSI17 | 27710  | 2310 | 21.32 | 22.80 | 1.406 | -0.1  | 0.363 | 0.510 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25 | 0 | Back        | 10mm | DSI17 | 27710  | 2310 | 21.32 | 22.80 | 1.406 | -0.07 | 0.367 | 0.516 |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |    |   |             |      |       |             |             |       |       |       |       |       |       |
|----|-------------------|-----|------|----|---|-------------|------|-------|-------------|-------------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25 | 0 | Left Side   | 10mm | DSI17 | 27710       | 2310        | 21.32 | 22.80 | 1.406 | 0.19  | 0.216 | 0.304 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25 | 0 | Right Side  | 10mm | DSI17 | 27710       | 2310        | 21.32 | 22.80 | 1.406 | -0.13 | 0.100 | 0.141 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25 | 0 | Bottom Side | 10mm | DSI17 | 27710       | 2310        | 21.32 | 22.80 | 1.406 | -0.17 | 0.503 | 0.707 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 20.22 | 21.00 | 1.197 | 0.17  | 0.183 | 0.219 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 20.22 | 21.00 | 1.197 | -0.05 | 0.284 | 0.340 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 20.22 | 21.00 | 1.197 | -0.06 | 0.479 | 0.573 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 20.22 | 21.00 | 1.197 | 0.04  | 0.007 | 0.008 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 21100       | 2535        | 20.22 | 21.00 | 1.197 | -0.01 | 0.036 | 0.043 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 20850       | 2510        | 20.12 | 21.00 | 1.225 | 0.09  | 0.469 | 0.574 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21350       | 2560        | 20.08 | 21.00 | 1.236 | 0.01  | 0.493 | 0.609 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21350+21152 | 2560+2540.2 | 20.06 | 21.00 | 1.242 | 0.02  | 0.458 | 0.569 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 20.11 | 21.00 | 1.227 | 0.09  | 0.170 | 0.209 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 20.11 | 21.00 | 1.227 | 0.03  | 0.248 | 0.304 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 20.11 | 21.00 | 1.227 | 0.19  | 0.466 | 0.572 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 20.11 | 21.00 | 1.227 | 0.19  | 0.000 | 0.000 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50 | 0 | Top Side    | 10mm | DSI17 | 21100       | 2535        | 20.11 | 21.00 | 1.227 | 0.17  | 0.000 | 0.000 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 20.55 | 21.50 | 1.245 | 0.1   | 0.339 | 0.422 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 20.55 | 21.50 | 1.245 | 0.17  | 0.394 | 0.490 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 20.55 | 21.50 | 1.245 | 0.12  | 0.171 | 0.213 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 20.55 | 21.50 | 1.245 | -0.17 | 0.077 | 0.096 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 21100       | 2535        | 20.55 | 21.50 | 1.245 | -0.16 | 0.465 | 0.579 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 20850       | 2510        | 20.53 | 21.50 | 1.250 | 0.14  | 0.431 | 0.539 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 21350       | 2560        | 20.52 | 21.50 | 1.253 | -0.06 | 0.528 | 0.662 |
|    | LTE Band 7C_ANT 3 | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 21350+21152 | 2560+2540.2 | 19.96 | 21.50 | 1.426 | -0.02 | 0.452 | 0.644 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 20.53 | 21.50 | 1.250 | 0.18  | 0.306 | 0.383 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 20.53 | 21.50 | 1.250 | -0.13 | 0.319 | 0.399 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 20.53 | 21.50 | 1.250 | 0.04  | 0.167 | 0.209 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 20.53 | 21.50 | 1.250 | 0.11  | 0.084 | 0.105 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50 | 0 | Bottom Side | 10mm | DSI17 | 21100       | 2535        | 20.53 | 21.50 | 1.250 | 0.03  | 0.460 | 0.575 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 16.33 | 17.80 | 1.403 | -0.05 | 0.161 | 0.226 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 16.33 | 17.80 | 1.403 | 0.03  | 0.205 | 0.288 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 16.33 | 17.80 | 1.403 | -0.18 | 0.092 | 0.129 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 16.33 | 17.80 | 1.403 | -0.15 | 0.054 | 0.076 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 21100       | 2535        | 16.33 | 17.80 | 1.403 | -0.02 | 0.479 | 0.672 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 20850       | 2510        | 16.32 | 17.80 | 1.406 | 0.05  | 0.368 | 0.517 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1  | 0 | Top Side    | 10mm | DSI17 | 21350       | 2560        | 16.31 | 17.80 | 1.409 | 0.07  | 0.446 | 0.629 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 16.31 | 17.80 | 1.409 | 0.15  | 0.142 | 0.200 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 16.31 | 17.80 | 1.409 | 0.17  | 0.200 | 0.282 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 16.31 | 17.80 | 1.409 | -0.11 | 0.076 | 0.107 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 16.31 | 17.80 | 1.409 | -0.16 | 0.052 | 0.073 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50 | 0 | Top Side    | 10mm | DSI17 | 21100       | 2535        | 16.31 | 17.80 | 1.409 | -0.17 | 0.401 | 0.565 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 22.85 | 23.80 | 1.245 | 0.02  | 0.243 | 0.302 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 22.85 | 23.80 | 1.245 | -0.17 | 0.252 | 0.314 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 22.85 | 23.80 | 1.245 | 0.13  | 0.042 | 0.052 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 22.85 | 23.80 | 1.245 | -0.12 | 0.361 | 0.449 |
| 42 | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 21100       | 2535        | 22.85 | 23.80 | 1.245 | 0.16  | 0.562 | 0.699 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 20850       | 2510        | 22.81 | 23.80 | 1.256 | 0.08  | 0.476 | 0.598 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1  | 0 | Bottom Side | 10mm | DSI17 | 21350       | 2560        | 22.80 | 23.80 | 1.259 | 0.01  | 0.501 | 0.631 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50 | 0 | Front       | 10mm | DSI17 | 21100       | 2535        | 22.10 | 22.80 | 1.175 | 0.16  | 0.203 | 0.239 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50 | 0 | Back        | 10mm | DSI17 | 21100       | 2535        | 22.10 | 22.80 | 1.175 | -0.14 | 0.176 | 0.207 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50 | 0 | Left Side   | 10mm | DSI17 | 21100       | 2535        | 22.10 | 22.80 | 1.175 | -0.04 | 0.033 | 0.039 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50 | 0 | Right Side  | 10mm | DSI17 | 21100       | 2535        | 22.10 | 22.80 | 1.175 | 0     | 0.295 | 0.347 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50 | 0 | Bottom Side | 10mm | DSI17 | 21100       | 2535        | 22.10 | 22.80 | 1.175 | -0.15 | 0.376 | 0.442 |





# FCC SAR TEST REPORT

Report No. : FA1O1920

|    |                          |     |      |     |   |             |      |       |             |             |       |       |       |      |       |       |       |       |
|----|--------------------------|-----|------|-----|---|-------------|------|-------|-------------|-------------|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41(HPUE)_ANT 2  | 20M | QPSK | 100 | 0 | Left Side   | 10mm | DSI17 | 40185       | 2549.5      | 22.80 | 23.60 | 1.202 | 42.9 | 1.009 | 0.01  | 0.328 | 0.398 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Front       | 10mm | DSI17 | 40185       | 2549.5      | 24.58 | 25.40 | 1.208 | 42.9 | 1.009 | -0.17 | 0.372 | 0.453 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 40185       | 2549.5      | 24.58 | 25.40 | 1.208 | 42.9 | 1.009 | 0.05  | 0.413 | 0.503 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Left Side   | 10mm | DSI17 | 40185       | 2549.5      | 24.58 | 25.40 | 1.208 | 42.9 | 1.009 | -0.13 | 0.165 | 0.201 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Right Side  | 10mm | DSI17 | 40185       | 2549.5      | 24.58 | 25.40 | 1.208 | 42.9 | 1.009 | -0.19 | 0.083 | 0.101 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 40185       | 2549.5      | 24.58 | 25.40 | 1.208 | 42.9 | 1.009 | 0.05  | 0.552 | 0.673 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 39750       | 2506        | 24.26 | 25.40 | 1.300 | 42.9 | 1.009 | 0.11  | 0.491 | 0.644 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 40620       | 2593        | 24.57 | 25.40 | 1.211 | 42.9 | 1.009 | -0.02 | 0.567 | 0.693 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 41055       | 2636.5      | 24.51 | 25.40 | 1.227 | 42.9 | 1.009 | 0.15  | 0.573 | 0.710 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 41490       | 2680        | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | 0.12  | 0.595 | 0.728 |
|    | LTE Band 41C(HPUE)_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 10mm | DSI17 | 41490+41292 | 2680+2660.2 | 24.06 | 25.40 | 1.361 | 42.9 | 1.009 | 0.13  | 0.527 | 0.724 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Front       | 10mm | DSI17 | 40185       | 2549.5      | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | -0.1  | 0.312 | 0.382 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Back        | 10mm | DSI17 | 40185       | 2549.5      | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | 0.13  | 0.367 | 0.449 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Left Side   | 10mm | DSI17 | 40185       | 2549.5      | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | -0.12 | 0.168 | 0.206 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Right Side  | 10mm | DSI17 | 40185       | 2549.5      | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | 0.08  | 0.089 | 0.109 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Bottom Side | 10mm | DSI17 | 40185       | 2549.5      | 24.56 | 25.40 | 1.213 | 42.9 | 1.009 | 0.19  | 0.547 | 0.670 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Bottom Side | 10mm | DSI17 | 39750       | 2506        | 24.20 | 25.40 | 1.318 | 42.9 | 1.009 | -0.19 | 0.484 | 0.644 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Bottom Side | 10mm | DSI17 | 40620       | 2593        | 24.50 | 25.40 | 1.230 | 42.9 | 1.009 | -0.02 | 0.582 | 0.722 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Bottom Side | 10mm | DSI17 | 41055       | 2636.5      | 24.51 | 25.40 | 1.227 | 42.9 | 1.009 | 0.15  | 0.585 | 0.725 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 50  | 0 | Bottom Side | 10mm | DSI17 | 41490       | 2680        | 24.55 | 25.40 | 1.216 | 42.9 | 1.009 | 0.03  | 0.592 | 0.726 |
|    | LTE Band 41(HPUE)_ANT 3  | 20M | QPSK | 100 | 0 | Bottom Side | 10mm | DSI17 | 40185       | 2549.5      | 24.36 | 25.40 | 1.271 | 42.9 | 1.009 | 0.01  | 0.512 | 0.656 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 1   | 0 | Front       | 10mm | DSI17 | 55830       | 3609        | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.01  | 0.222 | 0.252 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 55830       | 3609        | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.03  | 0.356 | 0.404 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 1   | 0 | Left Side   | 10mm | DSI17 | 55830       | 3609        | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.12  | 0.094 | 0.107 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 1   | 0 | Right Side  | 10mm | DSI17 | 55830       | 3609        | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | -0.04 | 0.038 | 0.043 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 1   | 0 | Top Side    | 10mm | DSI17 | 55830       | 3609        | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.19  | 0.409 | 0.464 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Front       | 10mm | DSI17 | 55830       | 3609        | 21.47 | 22.00 | 1.130 | 62.9 | 1.006 | -0.14 | 0.252 | 0.286 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Back        | 10mm | DSI17 | 55830       | 3609        | 21.47 | 22.00 | 1.130 | 62.9 | 1.006 | -0.18 | 0.360 | 0.409 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Left Side   | 10mm | DSI17 | 55830       | 3609        | 21.47 | 22.00 | 1.130 | 62.9 | 1.006 | 0.01  | 0.101 | 0.115 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Right Side  | 10mm | DSI17 | 55830       | 3609        | 21.47 | 22.00 | 1.130 | 62.9 | 1.006 | 0.17  | 0.039 | 0.044 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 55830       | 3609        | 21.47 | 22.00 | 1.130 | 62.9 | 1.006 | 0.04  | 0.421 | 0.478 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 55340       | 3560        | 21.43 | 22.00 | 1.140 | 62.9 | 1.006 | 0.08  | 0.591 | 0.678 |
|    | LTE Band 48C_ANT 5       | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 55340+55538 | 3560+3579.8 | 20.57 | 22.00 | 1.390 | 62.9 | 1.006 | 0.15  | 0.414 | 0.579 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 56150       | 3641        | 21.46 | 22.00 | 1.132 | 62.9 | 1.006 | -0.13 | 0.319 | 0.363 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 56640       | 3690        | 21.39 | 22.00 | 1.151 | 62.9 | 1.006 | -0.02 | 0.312 | 0.361 |
|    | LTE Band 48_ANT 5        | 20M | QPSK | 100 | 0 | Top Side    | 10mm | DSI17 | 55830       | 3609        | 21.46 | 22.00 | 1.132 | 62.9 | 1.006 | 0.05  | 0.501 | 0.571 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Front       | 10mm | DSI17 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.19  | 0.035 | 0.042 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.11  | 0.264 | 0.320 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Left Side   | 10mm | DSI17 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.12  | 0.073 | 0.088 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Right Side  | 10mm | DSI17 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.19  | 0.006 | 0.007 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Top Side    | 10mm | DSI17 | 55830       | 3609        | 16.49 | 17.30 | 1.205 | 62.9 | 1.006 | 0.12  | 0.001 | 0.001 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 55340       | 3560        | 16.46 | 17.30 | 1.213 | 62.9 | 1.006 | 0.11  | 0.138 | 0.168 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 56150       | 3641        | 16.39 | 17.30 | 1.233 | 62.9 | 1.006 | 0.14  | 0.357 | 0.443 |
| 44 | LTE Band 48_ANT 10       | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 56640       | 3690        | 16.42 | 17.30 | 1.225 | 62.9 | 1.006 | -0.04 | 0.566 | 0.697 |
|    | LTE Band 48C_ANT 10      | 20M | QPSK | 1   | 0 | Back        | 10mm | DSI17 | 56640+56442 | 3690+3670.2 | 15.81 | 17.30 | 1.409 | 62.9 | 1.006 | 0.07  | 0.475 | 0.673 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 50  | 0 | Front       | 10mm | DSI17 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | -0.06 | 0.037 | 0.046 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 50  | 0 | Back        | 10mm | DSI17 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | -0.06 | 0.251 | 0.310 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 50  | 0 | Left Side   | 10mm | DSI17 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | -0.05 | 0.075 | 0.093 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 50  | 0 | Right Side  | 10mm | DSI17 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | -0.18 | 0.008 | 0.010 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 50  | 0 | Top Side    | 10mm | DSI17 | 55830       | 3609        | 16.41 | 17.30 | 1.227 | 62.9 | 1.006 | 0.07  | 0.001 | 0.001 |
|    | LTE Band 48_ANT 10       | 20M | QPSK | 100 | 0 | Back        | 10mm | DSI17 | 55830       | 3609        | 16.40 | 17.30 | 1.230 | 62.9 | 1.006 | 0.05  | 0.242 | 0.300 |



## &lt;5G NR SAR&gt;

| Plot No. | Band      | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | 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) |
|----------|-----------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 45       | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 136100 | 680.5       | 22.52               | 23.40               | 1.225                  | -0.13            | 0.263                  | 0.322                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 136100 | 680.5       | 22.52               | 23.40               | 1.225                  | 0.06             | 0.375                  | 0.459                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 136100 | 680.5       | 22.52               | 23.40               | 1.225                  | 0.07             | 0.566                  | 0.693                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Side    | 10mm     | DS17        | 136100 | 680.5       | 22.52               | 23.40               | 1.225                  | -0.17            | 0.049                  | 0.060                  |
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | DS17        | 136100 | 680.5       | 22.52               | 23.40               | 1.225                  | 0.03             | 0.009                  | 0.011                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | DS17        | 136100 | 680.5       | 22.50               | 23.40               | 1.230                  | -0.12            | 0.244                  | 0.300                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | DS17        | 136100 | 680.5       | 22.50               | 23.40               | 1.230                  | 0.07             | 0.365                  | 0.449                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | DS17        | 136100 | 680.5       | 22.50               | 23.40               | 1.230                  | -0.19            | 0.534                  | 0.657                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Side    | 10mm     | DS17        | 136100 | 680.5       | 22.50               | 23.40               | 1.230                  | 0                | 0.051                  | 0.063                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 10mm     | DS17        | 136100 | 680.5       | 22.50               | 23.40               | 1.230                  | 0.08             | 0.008                  | 0.010                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | 0.17             | 0.158                  | 0.191                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.11            | 0.163                  | 0.197                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.15            | 0.101                  | 0.122                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Side    | 10mm     | DS17        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.18            | 0.400                  | 0.483                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Top Side      | 10mm     | DS17        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | 0.05             | 0.008                  | 0.010                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | DS17        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.06            | 0.152                  | 0.187                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | DS17        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.08            | 0.178                  | 0.218                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | DS17        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.07            | 0.100                  | 0.123                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Side    | 10mm     | DS17        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.15            | 0.382                  | 0.469                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Top Side      | 10mm     | DS17        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | 0.02             | 0.011                  | 0.014                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | 0.14             | 0.259                  | 0.315                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | -0.07            | 0.374                  | 0.455                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | -0.06            | 0.598                  | 0.727                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Side    | 10mm     | DS17        | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | 0.05             | 0.011                  | 0.013                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | DS17        | 167300 | 836.5       | 22.35               | 23.20               | 1.216                  | 0.06             | 0.013                  | 0.016                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | DS17        | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | 0.15             | 0.245                  | 0.306                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | DS17        | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | 0.02             | 0.349                  | 0.436                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | DS17        | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | 0.15             | 0.516                  | 0.645                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Side    | 10mm     | DS17        | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | 0.12             | 0.009                  | 0.011                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 10mm     | DS17        | 167300 | 836.5       | 22.23               | 23.20               | 1.250                  | 0.01             | 0.012                  | 0.015                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.07            | 0.152                  | 0.188                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.16            | 0.222                  | 0.274                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | 0.19             | 0.064                  | 0.079                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Right Side    | 10mm     | DS17        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | 0                | 0.204                  | 0.252                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Top Side      | 10mm     | DS17        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | 0.07             | 0.009                  | 0.011                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | DS17        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.19            | 0.157                  | 0.198                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | DS17        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.1             | 0.187                  | 0.236                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | DS17        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.17            | 0.054                  | 0.068                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Right Side    | 10mm     | DS17        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | 0.18             | 0.182                  | 0.230                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Top Side      | 10mm     | DS17        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | 0.03             | 0.006                  | 0.008                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | 0.1              | 0.317                  | 0.386                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | 0.17             | 0.400                  | 0.486                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | -0.13            | 0.222                  | 0.270                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Right Side    | 10mm     | DS17        | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | -0.06            | 0.144                  | 0.175                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 10mm     | DS17        | 349000 | 1745        | 20.85               | 21.70               | 1.216                  | 0.16             | 0.606                  | 0.737                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 10mm     | DS17        | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | 0.04             | 0.333                  | 0.406                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 10mm     | DS17        | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | -0.05            | 0.392                  | 0.478                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Side     | 10mm     | DS17        | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | 0.13             | 0.212                  | 0.258                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Right Side    | 10mm     | DS17        | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | 0.19             | 0.140                  | 0.171                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Bottom Side   | 10mm     | DS17        | 349000 | 1745        | 20.84               | 21.70               | 1.219                  | -0.12            | 0.598                  | 0.729                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 10mm     | DS17        | 349000 | 1745        | 22.27               | 23.20               | 1.239                  | -0.14            | 0.177                  | 0.219                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 10mm     | DS17        | 349000 | 1745        | 22.27               | 23.20               | 1.239                  | 0.04             | 0.291                  | 0.360                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 10mm     | DS17        | 349000 | 1745        | 22.27               | 23.20               | 1.239                  | -0.1             | 0.547                  | 0.678                  |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |           |     |      |     |    |        |             |      |       |        |        |       |       |       |       |       |       |
|----|-----------|-----|------|-----|----|--------|-------------|------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
|    | N66_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 22.27 | 23.20 | 1.239 | 0.12  | 0.038 | 0.047 |
|    | N66_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Top Side    | 10mm | DS117 | 349000 | 1745   | 22.27 | 23.20 | 1.239 | -0.17 | 0.040 | 0.050 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Front       | 10mm | DS117 | 349000 | 1745   | 22.21 | 23.20 | 1.256 | 0.08  | 0.200 | 0.251 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Back        | 10mm | DS117 | 349000 | 1745   | 22.21 | 23.20 | 1.256 | -0.14 | 0.302 | 0.379 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Left Side   | 10mm | DS117 | 349000 | 1745   | 22.21 | 23.20 | 1.256 | 0.13  | 0.536 | 0.673 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 22.21 | 23.20 | 1.256 | 0.02  | 0.044 | 0.055 |
|    | N66_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Top Side    | 10mm | DS117 | 349000 | 1745   | 22.21 | 23.20 | 1.256 | 0.1   | 0.053 | 0.067 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 349000 | 1745   | 17.63 | 18.70 | 1.279 | 0.14  | 0.241 | 0.308 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 349000 | 1745   | 17.63 | 18.70 | 1.279 | 0.02  | 0.385 | 0.493 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 349000 | 1745   | 17.63 | 18.70 | 1.279 | 0.12  | 0.047 | 0.060 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 17.63 | 18.70 | 1.279 | 0.12  | 0.032 | 0.041 |
|    | N66_Ant 5 | 40M | QPSK | 1   | 1  | DFT-15 | Top Side    | 10mm | DS117 | 349000 | 1745   | 17.63 | 18.70 | 1.279 | 0.04  | 0.538 | 0.688 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Front       | 10mm | DS117 | 349000 | 1745   | 17.59 | 18.70 | 1.291 | -0.05 | 0.273 | 0.353 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Back        | 10mm | DS117 | 349000 | 1745   | 17.59 | 18.70 | 1.291 | 0.04  | 0.406 | 0.524 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Left Side   | 10mm | DS117 | 349000 | 1745   | 17.59 | 18.70 | 1.291 | 0.15  | 0.062 | 0.080 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 17.59 | 18.70 | 1.291 | -0.16 | 0.043 | 0.056 |
|    | N66_Ant 5 | 40M | QPSK | 108 | 54 | DFT-15 | Top Side    | 10mm | DS117 | 349000 | 1745   | 17.59 | 18.70 | 1.291 | -0.13 | 0.526 | 0.679 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.01 | 0.228 | 0.286 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | 0.11  | 0.262 | 0.329 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.01 | 0.013 | 0.016 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | 0.16  | 0.527 | 0.662 |
|    | N66_Ant 1 | 40M | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 349000 | 1745   | 21.21 | 22.20 | 1.256 | -0.04 | 0.072 | 0.090 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Front       | 10mm | DS117 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | 0.16  | 0.251 | 0.325 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Back        | 10mm | DS117 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | 0.18  | 0.288 | 0.373 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Left Side   | 10mm | DS117 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | 0.07  | 0.015 | 0.019 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Right Side  | 10mm | DS117 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.06 | 0.489 | 0.633 |
|    | N66_Ant 1 | 40M | QPSK | 108 | 54 | DFT-15 | Bottom Side | 10mm | DS117 | 349000 | 1745   | 21.08 | 22.20 | 1.294 | -0.1  | 0.079 | 0.102 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | 0.05  | 0.383 | 0.491 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | 0.14  | 0.461 | 0.591 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | 0.09  | 0.235 | 0.301 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | 0.07  | 0.091 | 0.117 |
|    | N25_Ant 3 | 40M | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 376500 | 1882.5 | 21.12 | 22.20 | 1.282 | -0.13 | 0.573 | 0.735 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Front       | 10mm | DS117 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | 0     | 0.347 | 0.446 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Back        | 10mm | DS117 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | -0.1  | 0.428 | 0.550 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Left Side   | 10mm | DS117 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | 0.08  | 0.237 | 0.305 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Right Side  | 10mm | DS117 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | 0.09  | 0.085 | 0.109 |
|    | N25_Ant 3 | 40M | QPSK | 108 | 54 | DFT-15 | Bottom Side | 10mm | DS117 | 376500 | 1882.5 | 21.11 | 22.20 | 1.285 | -0.1  | 0.575 | 0.739 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 376500 | 1882.5 | 21.69 | 22.70 | 1.262 | -0.07 | 0.222 | 0.280 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 376500 | 1882.5 | 21.69 | 22.70 | 1.262 | 0.09  | 0.399 | 0.503 |
| 48 | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 376500 | 1882.5 | 21.69 | 22.70 | 1.262 | -0.1  | 0.622 | 0.785 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 376500 | 1882.5 | 21.69 | 22.70 | 1.262 | 0.06  | 0.009 | 0.011 |
|    | N25_Ant 2 | 40M | QPSK | 1   | 1  | DFT-15 | Top Side    | 10mm | DS117 | 376500 | 1882.5 | 21.69 | 22.70 | 1.262 | 0.19  | 0.047 | 0.059 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Front       | 10mm | DS117 | 376500 | 1882.5 | 21.63 | 22.70 | 1.279 | 0     | 0.239 | 0.306 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Back        | 10mm | DS117 | 376500 | 1882.5 | 21.63 | 22.70 | 1.279 | -0.11 | 0.416 | 0.532 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Left Side   | 10mm | DS117 | 376500 | 1882.5 | 21.63 | 22.70 | 1.279 | -0.05 | 0.596 | 0.763 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Right Side  | 10mm | DS117 | 376500 | 1882.5 | 21.63 | 22.70 | 1.279 | 0.07  | 0.012 | 0.015 |
|    | N25_Ant 2 | 40M | QPSK | 108 | 54 | DFT-15 | Top Side    | 10mm | DS117 | 376500 | 1882.5 | 21.63 | 22.70 | 1.279 | -0.08 | 0.059 | 0.075 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 462000 | 2310   | 21.17 | 22.20 | 1.268 | 0.17  | 0.323 | 0.409 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 462000 | 2310   | 21.17 | 22.20 | 1.268 | 0.09  | 0.308 | 0.390 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 462000 | 2310   | 21.17 | 22.20 | 1.268 | 0.12  | 0.173 | 0.219 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 462000 | 2310   | 21.17 | 22.20 | 1.268 | -0.06 | 0.051 | 0.065 |
|    | N30_Ant 3 | 10M | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 462000 | 2310   | 21.17 | 22.20 | 1.268 | 0.17  | 0.568 | 0.720 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Front       | 10mm | DS117 | 462000 | 2310   | 21.16 | 22.20 | 1.271 | -0.14 | 0.334 | 0.424 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Back        | 10mm | DS117 | 462000 | 2310   | 21.16 | 22.20 | 1.271 | -0.07 | 0.283 | 0.360 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Left Side   | 10mm | DS117 | 462000 | 2310   | 21.16 | 22.20 | 1.271 | -0.19 | 0.179 | 0.227 |
|    | N30_Ant 3 | 10M | QPSK | 25  | 14 | DFT-15 | Right Side  | 10mm | DS117 | 462000 | 2310   | 21.16 | 22.20 | 1.271 | -0.13 | 0.052 | 0.066 |



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|    |                |      |      |     |    |        |             |      |       |        |         |       |       |       |       |       |       |
|----|----------------|------|------|-----|----|--------|-------------|------|-------|--------|---------|-------|-------|-------|-------|-------|-------|
|    | N30_Ant 3      | 10M  | QPSK | 25  | 14 | DFT-15 | Bottom Side | 10mm | DS117 | 462000 | 2310    | 21.16 | 22.20 | 1.271 | 0.17  | 0.520 | 0.661 |
|    | N30_Ant 2      | 10M  | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 462000 | 2310    | 23.56 | 24.70 | 1.300 | 0.07  | 0.233 | 0.303 |
|    | N30_Ant 2      | 10M  | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 462000 | 2310    | 23.56 | 24.70 | 1.300 | 0.11  | 0.375 | 0.488 |
|    | N30_Ant 2      | 10M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 462000 | 2310    | 23.56 | 24.70 | 1.300 | 0.1   | 0.562 | 0.731 |
|    | N30_Ant 2      | 10M  | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 462000 | 2310    | 23.56 | 24.70 | 1.300 | 0.03  | 0.041 | 0.053 |
|    | N30_Ant 2      | 10M  | QPSK | 1   | 1  | DFT-15 | Top Side    | 10mm | DS117 | 462000 | 2310    | 23.56 | 24.70 | 1.300 | 0.09  | 0.088 | 0.114 |
|    | N30_Ant 2      | 10M  | QPSK | 25  | 14 | DFT-15 | Front       | 10mm | DS117 | 462000 | 2310    | 23.54 | 24.70 | 1.306 | 0.04  | 0.241 | 0.315 |
|    | N30_Ant 2      | 10M  | QPSK | 25  | 14 | DFT-15 | Back        | 10mm | DS117 | 462000 | 2310    | 23.54 | 24.70 | 1.306 | -0.12 | 0.383 | 0.500 |
| 49 | N30_Ant 2      | 10M  | QPSK | 25  | 14 | DFT-15 | Left Side   | 10mm | DS117 | 462000 | 2310    | 23.54 | 24.70 | 1.306 | 0.09  | 0.604 | 0.789 |
|    | N30_Ant 2      | 10M  | QPSK | 25  | 14 | DFT-15 | Right Side  | 10mm | DS117 | 462000 | 2310    | 23.54 | 24.70 | 1.306 | -0.12 | 0.062 | 0.081 |
|    | N30_Ant 2      | 10M  | QPSK | 25  | 14 | DFT-15 | Top Side    | 10mm | DS117 | 462000 | 2310    | 23.54 | 24.70 | 1.306 | 0.04  | 0.091 | 0.119 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 507000 | 2535    | 20.03 | 21.20 | 1.309 | 0.08  | 0.350 | 0.458 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 507000 | 2535    | 20.03 | 21.20 | 1.309 | 0.14  | 0.341 | 0.446 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 507000 | 2535    | 20.03 | 21.20 | 1.309 | -0.11 | 0.172 | 0.225 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 507000 | 2535    | 20.03 | 21.20 | 1.309 | -0.13 | 0.067 | 0.088 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 507000 | 2535    | 20.03 | 21.20 | 1.309 | 0     | 0.586 | 0.767 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 502000 | 2510    | 20.01 | 21.20 | 1.315 | 0.03  | 0.407 | 0.535 |
|    | N7_Ant 3       | 20M  | QPSK | 1   | 1  | DFT-15 | Bottom Side | 10mm | DS117 | 512000 | 2560    | 19.97 | 21.20 | 1.327 | 0.07  | 0.427 | 0.567 |
|    | N7_Ant 3       | 20M  | QPSK | 50  | 28 | DFT-15 | Front       | 10mm | DS117 | 507000 | 2535    | 19.96 | 21.20 | 1.330 | -0.1  | 0.339 | 0.451 |
|    | N7_Ant 3       | 20M  | QPSK | 50  | 28 | DFT-15 | Back        | 10mm | DS117 | 507000 | 2535    | 19.96 | 21.20 | 1.330 | 0.15  | 0.353 | 0.470 |
|    | N7_Ant 3       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 10mm | DS117 | 507000 | 2535    | 19.96 | 21.20 | 1.330 | 0.11  | 0.173 | 0.230 |
|    | N7_Ant 3       | 20M  | QPSK | 50  | 28 | DFT-15 | Right Side  | 10mm | DS117 | 507000 | 2535    | 19.96 | 21.20 | 1.330 | 0.14  | 0.067 | 0.089 |
|    | N7_Ant 3       | 20M  | QPSK | 50  | 28 | DFT-15 | Bottom Side | 10mm | DS117 | 507000 | 2535    | 19.96 | 21.20 | 1.330 | -0.18 | 0.456 | 0.607 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Front       | 10mm | DS117 | 507000 | 2535    | 19.61 | 20.70 | 1.285 | 0.08  | 0.161 | 0.207 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Back        | 10mm | DS117 | 507000 | 2535    | 19.61 | 20.70 | 1.285 | -0.1  | 0.327 | 0.420 |
| 50 | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 507000 | 2535    | 19.61 | 20.70 | 1.285 | 0.02  | 0.616 | 0.792 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Right Side  | 10mm | DS117 | 507000 | 2535    | 19.61 | 20.70 | 1.285 | 0.05  | 0.007 | 0.009 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Top Side    | 10mm | DS117 | 507000 | 2535    | 19.61 | 20.70 | 1.285 | -0.04 | 0.041 | 0.053 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 502000 | 2510    | 19.52 | 20.70 | 1.312 | 0.06  | 0.552 | 0.724 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 10mm | DS117 | 512000 | 2560    | 19.51 | 20.70 | 1.315 | -0.15 | 0.566 | 0.744 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Front       | 10mm | DS117 | 507000 | 2535    | 19.52 | 20.70 | 1.312 | 0.17  | 0.168 | 0.220 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Back        | 10mm | DS117 | 507000 | 2535    | 19.52 | 20.70 | 1.312 | -0.1  | 0.327 | 0.429 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 10mm | DS117 | 507000 | 2535    | 19.52 | 20.70 | 1.312 | -0.18 | 0.550 | 0.722 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Right Side  | 10mm | DS117 | 507000 | 2535    | 19.52 | 20.70 | 1.312 | 0.01  | 0.008 | 0.010 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Top Side    | 10mm | DS117 | 507000 | 2535    | 19.52 | 20.70 | 1.312 | 0.07  | 0.031 | 0.041 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 16.86 | 18.20 | 1.361 | 0.09  | 0.178 | 0.242 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 16.86 | 18.20 | 1.361 | -0.01 | 0.165 | 0.225 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 16.86 | 18.20 | 1.361 | 0.16  | 0.079 | 0.108 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 16.86 | 18.20 | 1.361 | -0.18 | 0.030 | 0.041 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Bottom Side | 10mm | DS117 | 518598 | 2592.99 | 16.86 | 18.20 | 1.361 | -0.07 | 0.295 | 0.402 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | 0.18  | 0.156 | 0.214 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | 0.06  | 0.173 | 0.238 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | -0.19 | 0.080 | 0.110 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | 0.05  | 0.028 | 0.038 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Bottom Side | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | -0.04 | 0.271 | 0.372 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | -0.18 | 0.204 | 0.256 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.13  | 0.364 | 0.456 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.17  | 0.606 | 0.759 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.17  | 0.003 | 0.004 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | -0.08 | 0.027 | 0.034 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | 0.13  | 0.191 | 0.246 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | 0.16  | 0.387 | 0.499 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | 0.15  | 0.595 | 0.767 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | -0.08 | 0.002 | 0.003 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | -0.05 | 0.046 | 0.059 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 13.57 | -0.06 | 0.072 | 0.083 |





# FCC SAR TEST REPORT

Report No. : FA101920

|    |                    |      |      |     |    |        |             |      |       |        |         |       |       |       |       |       |       |
|----|--------------------|------|------|-----|----|--------|-------------|------|-------|--------|---------|-------|-------|-------|-------|-------|-------|
|    | N41(UL MIMO)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | 0.06  | 0.173 | 0.238 |
|    | N41(UL MIMO)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | -0.19 | 0.080 | 0.110 |
|    | N41(UL MIMO)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | 0.05  | 0.028 | 0.038 |
|    | N41(UL MIMO)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Bottom Side | 10mm | DS117 | 518598 | 2592.99 | 16.82 | 18.20 | 1.374 | -0.04 | 0.271 | 0.372 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 1.156 | -0.06 | 0.072 | 0.083 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 1.156 | -0.02 | 0.085 | 0.098 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 1.156 | 0.13  | 0.021 | 0.024 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 1.156 | 0.1   | 0.017 | 0.020 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 518598 | 2592.99 | 13.57 | 14.20 | 1.156 | 0.17  | 0.238 | 0.275 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 518598 | 2592.99 | 13.51 | 14.20 | 1.172 | 0.02  | 0.053 | 0.062 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 518598 | 2592.99 | 13.51 | 14.20 | 1.172 | 0.17  | 0.067 | 0.079 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 518598 | 2592.99 | 13.51 | 14.20 | 1.172 | -0.06 | 0.021 | 0.025 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 518598 | 2592.99 | 13.51 | 14.20 | 1.172 | 0.11  | 0.015 | 0.018 |
|    | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 518598 | 2592.99 | 13.51 | 14.20 | 1.172 | 0.18  | 0.213 | 0.250 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.12 | 0.243 | 0.300 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.03 | 0.370 | 0.456 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.02 | 0.135 | 0.166 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.07 | 0.062 | 0.076 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.04 | 0.502 | 0.619 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | 0.11  | 0.308 | 0.382 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | 0.18  | 0.456 | 0.565 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | -0.03 | 0.133 | 0.165 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | -0.02 | 0.046 | 0.057 |
| 53 | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | 0.17  | 0.638 | 0.790 |
|    | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Top Side    | 10mm | DS117 | 633334 | 3500.01 | 18.67 | 19.70 | 1.268 | 0.04  | 0.424 | 0.537 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 656000 | 3840    | 18.59 | 19.70 | 1.291 | -0.16 | 0.250 | 0.323 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 656000 | 3840    | 18.59 | 19.70 | 1.291 | 0.03  | 0.582 | 0.751 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 656000 | 3840    | 18.59 | 19.70 | 1.291 | 0.11  | 0.100 | 0.129 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 656000 | 3840    | 18.59 | 19.70 | 1.291 | 0.04  | 0.026 | 0.034 |
|    | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 656000 | 3840    | 18.59 | 19.70 | 1.291 | 0.13  | 0.398 | 0.514 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 656000 | 3840    | 18.58 | 19.70 | 1.294 | -0.16 | 0.259 | 0.335 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.02  | 0.453 | 0.586 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.11  | 0.081 | 0.105 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.04  | 0.026 | 0.034 |
|    | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.13  | 0.309 | 0.400 |
|    | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 10mm | DS117 | 656000 | 3840    | 18.57 | 19.70 | 1.297 | -0.16 | 0.410 | 0.532 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | -0.06 | 0.023 | 0.029 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | -0.12 | 0.200 | 0.251 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | 0.14  | 0.092 | 0.115 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | -0.15 | 0.005 | 0.006 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 633334 | 3500.01 | 15.72 | 16.70 | 1.253 | -0.04 | 0.027 | 0.034 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | -0.06 | 0.025 | 0.031 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | -0.12 | 0.224 | 0.282 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | 0.14  | 0.081 | 0.102 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | -0.15 | 0.001 | 0.001 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 633334 | 3500.01 | 15.70 | 16.70 | 1.259 | -0.04 | 0.012 | 0.015 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 10mm | DS117 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | -0.07 | 0.008 | 0.010 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 10mm | DS117 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.05  | 0.574 | 0.733 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 10mm | DS117 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.05  | 0.098 | 0.125 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Right Side  | 10mm | DS117 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | 0.07  | 0.006 | 0.008 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 10mm | DS117 | 656000 | 3840    | 15.64 | 16.70 | 1.276 | -0.03 | 0.031 | 0.040 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 10mm | DS117 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | -0.07 | 0.007 | 0.009 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 10mm | DS117 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | 0.05  | 0.240 | 0.308 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 10mm | DS117 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | 0.05  | 0.082 | 0.105 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Right Side  | 10mm | DS117 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | -0.13 | 0.004 | 0.005 |
|    | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 10mm | DS117 | 656000 | 3840    | 15.62 | 16.70 | 1.282 | -0.03 | 0.030 | 0.038 |



# FCC SAR TEST REPORT

Report No. : FA101920

|  |                 |      |      |     |   |        |      |      |       |        |      |       |       |       |      |       |       |
|--|-----------------|------|------|-----|---|--------|------|------|-------|--------|------|-------|-------|-------|------|-------|-------|
|  | N77(PC2)_Ant 10 | 100M | QPSK | 270 | 1 | DFT-30 | Back | 10mm | DSI17 | 656000 | 3840 | 15.62 | 16.70 | 1.282 | 0.04 | 0.322 | 0.413 |
|--|-----------------|------|------|-----|---|--------|------|------|-------|--------|------|-------|-------|-------|------|-------|-------|

## <5G NR SRS SAR>

| Plot No. | Band       | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Duty Cycle % | Pmax | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|--------------|------|------------------|------------------------|------------------------|
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 10mm     | DSI17       | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.19            | 0.050                  | 0.021                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 10mm     | DSI17       | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.05            | 0.150                  | 0.064                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 10mm     | DSI17       | 633334 | 3500.01     | 15.38               | 14           | 20.2 | 0.02             | 0.011                  | 0.005                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Side    | 10mm     | DSI17       | 633334 | 3500.01     | 15.38               | 14           | 20.2 | -0.02            | 0.082                  | 0.035                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Top Side      | 10mm     | DSI17       | 633334 | 3500.01     | 15.38               | 14           | 20.2 | 0.19             | 0.030                  | 0.013                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 10mm     | DSI17       | 633334 | 3500.01     | 15.35               | 14           | 20.2 | -0.11            | 0.045                  | 0.019                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 10mm     | DSI17       | 633334 | 3500.01     | 15.35               | 14           | 20.2 | 0.16             | 0.165                  | 0.071                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Side     | 10mm     | DSI17       | 633334 | 3500.01     | 15.35               | 14           | 20.2 | -0.13            | 0.008                  | 0.003                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Side    | 10mm     | DSI17       | 633334 | 3500.01     | 15.35               | 14           | 20.2 | -0.06            | 0.072                  | 0.031                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 10mm     | DSI17       | 633334 | 3500.01     | 15.35               | 14           | 20.2 | 0.05             | 0.021                  | 0.009                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 10mm     | DSI17       | 656000 | 3840        | 15.30               | 14           | 20.2 | -0.16            | 0.117                  | 0.051                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 10mm     | DSI17       | 656000 | 3840        | 15.30               | 14           | 20.2 | 0.17             | 0.251                  | 0.109                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 10mm     | DSI17       | 656000 | 3840        | 15.30               | 14           | 20.2 | 0.09             | 0.004                  | 0.002                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Side    | 10mm     | DSI17       | 656000 | 3840        | 15.30               | 14           | 20.2 | 0.04             | 0.246                  | 0.106                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Top Side      | 10mm     | DSI17       | 656000 | 3840        | 15.30               | 14           | 20.2 | -0.03            | 0.041                  | 0.018                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 10mm     | DSI17       | 656000 | 3840        | 15.27               | 14           | 20.2 | -0.12            | 0.103                  | 0.045                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 10mm     | DSI17       | 656000 | 3840        | 15.27               | 14           | 20.2 | 0.12             | 0.219                  | 0.095                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Side     | 10mm     | DSI17       | 656000 | 3840        | 15.27               | 14           | 20.2 | 0.1              | 0.032                  | 0.014                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Side    | 10mm     | DSI17       | 656000 | 3840        | 15.27               | 14           | 20.2 | -0.16            | 0.223                  | 0.097                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 10mm     | DSI17       | 656000 | 3840        | 15.27               | 14           | 20.2 | 0.03             | 0.037                  | 0.016                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 10mm     | DSI17       | 633334 | 3500.01     | 19.21               | 14           | 22.7 | -0.05            | 0.181                  | 0.057                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 10mm     | DSI17       | 633334 | 3500.01     | 19.21               | 14           | 22.7 | 0.17             | 0.262                  | 0.082                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 10mm     | DSI17       | 633334 | 3500.01     | 19.21               | 14           | 22.7 | 0.18             | 0.019                  | 0.006                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Side    | 10mm     | DSI17       | 633334 | 3500.01     | 19.21               | 14           | 22.7 | 0.07             | 0.062                  | 0.019                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Top Side      | 10mm     | DSI17       | 633334 | 3500.01     | 19.21               | 14           | 22.7 | -0.14            | 0.234                  | 0.073                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 10mm     | DSI17       | 633334 | 3500.01     | 19.14               | 14           | 22.7 | -0.18            | 0.203                  | 0.065                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 10mm     | DSI17       | 633334 | 3500.01     | 19.14               | 14           | 22.7 | -0.14            | 0.326                  | 0.104                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Side     | 10mm     | DSI17       | 633334 | 3500.01     | 19.14               | 14           | 22.7 | -0.02            | 0.016                  | 0.005                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Side    | 10mm     | DSI17       | 633334 | 3500.01     | 19.14               | 14           | 22.7 | 0.05             | 0.077                  | 0.024                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 10mm     | DSI17       | 633334 | 3500.01     | 19.14               | 14           | 22.7 | 0.01             | 0.246                  | 0.078                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 10mm     | DSI17       | 656000 | 3840        | 19.08               | 14           | 22.7 | 0.13             | 0.081                  | 0.026                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 10mm     | DSI17       | 656000 | 3840        | 19.08               | 14           | 22.7 | -0.17            | 0.342                  | 0.110                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 10mm     | DSI17       | 656000 | 3840        | 19.08               | 14           | 22.7 | -0.08            | 0.011                  | 0.004                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Right Side    | 10mm     | DSI17       | 656000 | 3840        | 19.08               | 14           | 22.7 | 0.02             | 0.095                  | 0.031                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Top Side      | 10mm     | DSI17       | 656000 | 3840        | 19.08               | 14           | 22.7 | 0.13             | 0.309                  | 0.100                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 10mm     | DSI17       | 656000 | 3840        | 19.05               | 14           | 22.7 | 0.18             | 0.078                  | 0.025                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 10mm     | DSI17       | 656000 | 3840        | 19.05               | 14           | 22.7 | 0.04             | 0.387                  | 0.126                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Left Side     | 10mm     | DSI17       | 656000 | 3840        | 19.05               | 14           | 22.7 | -0.14            | 0.010                  | 0.003                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Right Side    | 10mm     | DSI17       | 656000 | 3840        | 19.05               | 14           | 22.7 | -0.06            | 0.073                  | 0.024                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 10mm     | DSI17       | 656000 | 3840        | 19.05               | 14           | 22.7 | 0.17             | 0.267                  | 0.087                  |

**<Bluetooth SAR>**

| 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) |
|----------|-----------|-----------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Front         | 10mm     | Ant 4   | Reduced         | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.07            | 0.025                  | 0.038                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Ant 4   | Reduced         | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | 0.03             | 0.029                  | 0.044                  |
|          | Bluetooth | DH5 1Mbps | Left Side     | 10mm     | Ant 4   | Reduced         | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.08            | 0.000                  | 0.000                  |
|          | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Ant 4   | Reduced         | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.12            | 0.037                  | 0.056                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Ant 4   | Reduced         | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.01            | 0.052                  | 0.078                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Ant 4   | Reduced         | 0   | 2402        | 8.80                | 10.00               | 1.318                  | 76.1         | 1.314                     | 0.05             | 0.033                  | 0.057                  |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Ant 4   | Reduced         | 78  | 2480        | 9.20                | 10.00               | 1.202                  | 76.1         | 1.314                     | 0.1              | 0.052                  | 0.082                  |
|          | Bluetooth | DH5 1Mbps | Front         | 10mm     | Ant 6   | Reduced         | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | 0.04             | 0.036                  | 0.062                  |
|          | Bluetooth | DH5 1Mbps | Back          | 10mm     | Ant 6   | Reduced         | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.14            | 0.062                  | 0.107                  |
|          | Bluetooth | DH5 1Mbps | Left Side     | 10mm     | Ant 6   | Reduced         | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.01            | 0.061                  | 0.106                  |
| 54       | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Ant 6   | Reduced         | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | 0.06             | 0.101                  | <b>0.175</b>           |
|          | Bluetooth | DH5 1Mbps | Top Side      | 10mm     | Ant 6   | Reduced         | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | -0.04            | 0.008                  | 0.014                  |
|          | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Ant 6   | Reduced         | 0   | 2402        | 10.40               | 12.00               | 1.445                  | 76.1         | 1.314                     | 0                | 0.074                  | 0.141                  |
|          | Bluetooth | DH5 1Mbps | Right Side    | 10mm     | Ant 6   | Reduced         | 78  | 2480        | 10.00               | 12.00               | 1.585                  | 76.1         | 1.314                     | 0.13             | 0.061                  | 0.127                  |

**<WLAN2.4G SAR>**

| 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) |
|----------|------------|---------------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4+6 | Reduced_level 1 | 6   | 2437        | 18.26               | 20.00               | 1.493                  | 100          | 1.000                     | 0.02             | 0.291                  | 0.434                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4+6 | Reduced_level 1 | 6   | 2437        | 18.26               | 20.00               | 1.493                  | 100          | 1.000                     | -0.09            | 0.498                  | 0.743                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 4+6 | Reduced_level 1 | 6   | 2437        | 18.26               | 20.00               | 1.493                  | 100          | 1.000                     | 0.03             | 0.020                  | 0.030                  |
| 55       | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 1 | 6   | 2437        | 18.26               | 20.00               | 1.493                  | 100          | 1.000                     | -0.05            | 0.798                  | <b>1.191</b>           |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4+6 | Reduced_level 1 | 6   | 2437        | 18.26               | 20.00               | 1.493                  | 100          | 1.000                     | 0.04             | 0.253                  | 0.378                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 1 | 1   | 2412        | 18.21               | 20.00               | 1.510                  | 100          | 1.000                     | 0.07             | 0.692                  | 1.045                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 1 | 11  | 2462        | 18.21               | 20.00               | 1.510                  | 100          | 1.000                     | 0.02             | 0.715                  | 1.080                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4+6 | Reduced_level 2 | 6   | 2437        | 13.36               | 15.00               | 1.459                  | 100          | 1.000                     | -0.08            | 0.066                  | 0.096                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4+6 | Reduced_level 2 | 6   | 2437        | 13.36               | 15.00               | 1.459                  | 100          | 1.000                     | 0.09             | 0.120                  | 0.175                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 4+6 | Reduced_level 2 | 6   | 2437        | 13.36               | 15.00               | 1.459                  | 100          | 1.000                     | -0.12            | 0.002                  | 0.003                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 2 | 6   | 2437        | 13.36               | 15.00               | 1.459                  | 100          | 1.000                     | 0.03             | 0.206                  | 0.301                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4+6 | Reduced_level 2 | 6   | 2437        | 13.36               | 15.00               | 1.459                  | 100          | 1.000                     | -0.1             | 0.059                  | 0.086                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 2 | 1   | 2412        | 13.31               | 15.00               | 1.476                  | 100          | 1.000                     | -0.02            | 0.218                  | 0.322                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4+6 | Reduced_level 2 | 11  | 2462        | 13.31               | 15.00               | 1.476                  | 100          | 1.000                     | 0.14             | 0.196                  | 0.289                  |

**<WLAN5G SAR>**

| 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) |
|----------|------------|---------------------|---------------|----------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | 0.12             | 0.119                  | 0.177                  |
| 56       | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.11            | 0.283                  | <b>0.420</b>           |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.19            | 0.117                  | 0.174                  |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.08            | 0.082                  | 0.122                  |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | 0.06             | 0.088                  | 0.131                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 13+9 | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | -0.08            | 0.097                  | 0.145                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 13+9 | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | -0.06            | 0.140                  | 0.209                  |
| 57       | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 13+9 | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.08             | 0.180                  | <b>0.269</b>           |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 13+9 | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.02             | 0.060                  | 0.090                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 13+9 | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.01             | 0.065                  | 0.097                  |

**18.3 Body Worn Accessory SAR****<GSM SAR>**

| Plot No. | Band          | Mode                   | Test Position | Gap (mm) | Headset | 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) |
|----------|---------------|------------------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Front         | 15mm     | -       | DSI4        | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | -0.04            | 0.192                  | 0.239                  |
| 58       | GSM850_ANT 0  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 128 | 824.2       | 26.05               | 27.00               | 1.245                  | 0.04             | 0.202                  | 0.251                  |
|          | GSM850_ANT 0  | DTM Multi-slot class 9 | Back          | 15mm     | -       | DSI4        | 128 | 824.2       | 22.65               | 23.98               | 1.358                  | 0.01             | 0.177                  | 0.240                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 189 | 836.4       | 25.90               | 27.00               | 1.288                  | -0.06            | 0.194                  | 0.250                  |
|          | GSM850_ANT 0  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 251 | 848.8       | 25.95               | 27.00               | 1.274                  | 0.09             | 0.178                  | 0.227                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Front         | 15mm     | -       | DSI4        | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | -0.14            | 0.076                  | 0.096                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 251 | 848.8       | 26.80               | 27.80               | 1.259                  | -0.08            | 0.084                  | 0.106                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 128 | 824.2       | 26.65               | 27.80               | 1.303                  | 0.02             | 0.157                  | 0.205                  |
|          | GSM850_ANT 1  | DTM Multi-slot class 9 | Back          | 15mm     | -       | DSI4        | 128 | 824.2       | 23.70               | 24.78               | 1.282                  | -0.09            | 0.104                  | 0.133                  |
|          | GSM850_ANT 1  | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 189 | 836.4       | 26.30               | 27.80               | 1.413                  | 0.16             | 0.107                  | 0.151                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Front         | 15mm     | -       | DSI4        | 661 | 1880        | 23.91               | 24.80               | 1.227                  | -0.04            | 0.092                  | 0.113                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 661 | 1880        | 23.91               | 24.80               | 1.227                  | -0.01            | 0.159                  | 0.195                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 512 | 1850.2      | 23.85               | 24.80               | 1.245                  | 0.15             | 0.130                  | 0.162                  |
|          | GSM1900_ANT 2 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 810 | 1909.8      | 23.86               | 24.80               | 1.242                  | -0.15            | 0.157                  | 0.195                  |
|          | GSM1900_ANT 2 | DTM Multi-slot class 9 | Back          | 15mm     | -       | DSI4        | 810 | 1909.8      | 20.26               | 21.78               | 1.419                  | 0.02             | 0.098                  | 0.139                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Front         | 15mm     | -       | DSI4        | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.18             | 0.166                  | 0.246                  |
| 59       | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 810 | 1909.8      | 23.10               | 24.80               | 1.479                  | 0.12             | 0.221                  | 0.327                  |
|          | GSM1900_ANT 3 | DTM Multi-slot class 9 | Back          | 15mm     | -       | DSI4        | 810 | 1909.8      | 20.29               | 21.78               | 1.409                  | 0.03             | 0.191                  | 0.269                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 512 | 1850.2      | 23.00               | 24.80               | 1.514                  | 0.17             | 0.214                  | 0.324                  |
|          | GSM1900_ANT 3 | GPRS(4 Tx slots)       | Back          | 15mm     | -       | DSI4        | 661 | 1880        | 22.99               | 24.80               | 1.517                  | 0.05             | 0.178                  | 0.270                  |

**<WCDMA SAR>**

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Headset | 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) |
|----------|----------------|--------------|---------------|----------|---------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 4132 | 826.4       | 23.03               | 24.30               | 1.340                  | 0.11             | 0.215                  | 0.288                  |
| 60       | WCDMA V_ANT 0  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4132 | 826.4       | 23.03               | 24.30               | 1.340                  | 0.05             | 0.258                  | 0.346                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4182 | 836.4       | 23.01               | 24.30               | 1.346                  | 0.09             | 0.227                  | 0.306                  |
|          | WCDMA V_ANT 0  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4233 | 846.6       | 23.01               | 24.30               | 1.346                  | 0                | 0.229                  | 0.308                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | -0.03            | 0.154                  | 0.181                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4132 | 826.4       | 24.09               | 24.80               | 1.178                  | 0.13             | 0.174                  | 0.205                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4182 | 836.4       | 24.08               | 24.80               | 1.180                  | 0.16             | 0.151                  | 0.178                  |
|          | WCDMA V_ANT 1  | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 4233 | 846.6       | 24.08               | 24.80               | 1.180                  | -0.03            | 0.146                  | 0.172                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 1413 | 1732.6      | 24.18               | 24.80               | 1.153                  | -0.09            | 0.175                  | 0.202                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1413 | 1732.6      | 24.18               | 24.80               | 1.153                  | -0.06            | 0.291                  | 0.336                  |
|          | WCDMA IV_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1312 | 1712.4      | 24.07               | 24.80               | 1.183                  | 0.09             | 0.208                  | 0.246                  |
| 61       | WCDMA IV_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1513 | 1752.6      | 24.16               | 24.80               | 1.159                  | 0.14             | 0.340                  | 0.394                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 1413 | 1732.6      | 23.88               | 24.80               | 1.236                  | 0                | 0.214                  | 0.264                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1413 | 1732.6      | 23.88               | 24.80               | 1.236                  | -0.19            | 0.233                  | 0.288                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1312 | 1712.4      | 23.79               | 24.80               | 1.262                  | -0.07            | 0.219                  | 0.276                  |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 1513 | 1752.6      | 23.87               | 24.80               | 1.239                  | -0.01            | 0.230                  | 0.285                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 9400 | 1880        | 23.94               | 24.80               | 1.219                  | 0.18             | 0.257                  | 0.313                  |
| 62       | WCDMA II_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9400 | 1880        | 23.94               | 24.80               | 1.219                  | 0.02             | 0.497                  | 0.606                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9262 | 1852.4      | 23.80               | 24.80               | 1.259                  | -0.16            | 0.374                  | 0.471                  |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9538 | 1907.6      | 23.78               | 24.80               | 1.265                  | -0.17            | 0.463                  | 0.586                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Front         | 15mm     | -       | DSI4        | 9400 | 1880        | 23.80               | 24.80               | 1.259                  | 0.09             | 0.186                  | 0.234                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9400 | 1880        | 23.80               | 24.80               | 1.259                  | -0.12            | 0.216                  | 0.272                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9262 | 1852.4      | 23.65               | 24.80               | 1.303                  | -0.19            | 0.220                  | 0.287                  |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Back          | 15mm     | -       | DSI4        | 9538 | 1907.6      | 23.68               | 24.80               | 1.294                  | -0.05            | 0.212                  | 0.274                  |





# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |     |   |       |      |   |         |             |             |       |       |       |       |       |       |
|----|-------------------|-----|------|-----|---|-------|------|---|---------|-------------|-------------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 132322      | 1745        | 22.85 | 23.80 | 1.245 | -0.1  | 0.225 | 0.280 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 132072      | 1720        | 22.84 | 23.80 | 1.247 | 0.09  | 0.205 | 0.256 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 132572      | 1770        | 22.82 | 23.80 | 1.253 | -0.02 | 0.214 | 0.268 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 132322      | 1745        | 22.21 | 22.80 | 1.146 | 0.16  | 0.177 | 0.203 |
|    | LTE Band 66_ANT 1 | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 132322      | 1745        | 22.21 | 22.80 | 1.146 | -0.02 | 0.220 | 0.252 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 26340       | 1880        | 24.11 | 24.80 | 1.172 | 0.18  | 0.218 | 0.256 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26340       | 1880        | 24.11 | 24.80 | 1.172 | 0.13  | 0.337 | 0.395 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26140       | 1860        | 24.09 | 24.80 | 1.178 | -0.08 | 0.311 | 0.366 |
| 68 | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26590       | 1905        | 24.03 | 24.80 | 1.194 | -0.18 | 0.377 | 0.450 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 26340       | 1880        | 23.17 | 23.80 | 1.156 | 0.01  | 0.176 | 0.203 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 26340       | 1880        | 23.17 | 23.80 | 1.156 | 0.06  | 0.279 | 0.323 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 26340       | 1880        | 23.74 | 24.80 | 1.276 | -0.12 | 0.168 | 0.214 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26340       | 1880        | 23.74 | 24.80 | 1.276 | -0.02 | 0.208 | 0.265 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26140       | 1860        | 23.57 | 24.80 | 1.327 | 0.19  | 0.189 | 0.251 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 26590       | 1905        | 23.62 | 24.80 | 1.312 | 0.16  | 0.221 | 0.290 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 26340       | 1880        | 22.77 | 23.80 | 1.268 | 0.13  | 0.173 | 0.219 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 26340       | 1880        | 22.77 | 23.80 | 1.268 | -0.14 | 0.213 | 0.270 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 27710       | 2310        | 24.03 | 24.80 | 1.194 | 0.15  | 0.194 | 0.232 |
| 69 | LTE Band 30_ANT 2 | 10M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 27710       | 2310        | 24.03 | 24.80 | 1.194 | -0.01 | 0.296 | 0.353 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Front | 15mm | - | DSI4    | 27710       | 2310        | 22.85 | 23.80 | 1.245 | -0.03 | 0.154 | 0.192 |
|    | LTE Band 30_ANT 2 | 10M | QPSK | 25  | 0 | Back  | 15mm | - | DSI4    | 27710       | 2310        | 22.85 | 23.80 | 1.245 | -0.07 | 0.266 | 0.331 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 27710       | 2310        | 23.59 | 24.80 | 1.321 | 0.01  | 0.219 | 0.289 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 27710       | 2310        | 23.59 | 24.80 | 1.321 | 0.1   | 0.188 | 0.248 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Front | 15mm | - | DSI4    | 27710       | 2310        | 22.50 | 23.80 | 1.349 | 0.18  | 0.222 | 0.299 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Back  | 15mm | - | DSI4    | 27710       | 2310        | 22.50 | 23.80 | 1.349 | 0.03  | 0.219 | 0.295 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 23.50 | 24.00 | 1.122 | 0.05  | 0.203 | 0.228 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 23.50 | 24.00 | 1.122 | 0.19  | 0.362 | 0.406 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 20850       | 2510        | 23.41 | 24.00 | 1.146 | -0.07 | 0.322 | 0.369 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21350       | 2560        | 23.47 | 24.00 | 1.130 | 0.06  | 0.398 | 0.450 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21350/21152 | 2560+2540.2 | 23.07 | 24.00 | 1.239 | 0.1   | 0.234 | 0.290 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 22.66 | 23.00 | 1.081 | -0.16 | 0.157 | 0.170 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 22.66 | 23.00 | 1.081 | -0.03 | 0.291 | 0.315 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 23.28 | 24.00 | 1.180 | -0.08 | 0.414 | 0.489 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 23.28 | 24.00 | 1.180 | 0.06  | 0.381 | 0.450 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 20850       | 2510        | 23.25 | 24.00 | 1.189 | -0.17 | 0.376 | 0.447 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21350       | 2560        | 23.25 | 24.00 | 1.189 | 0.04  | 0.474 | 0.563 |
|    | LTE Band 7C_ANT 3 | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21350/21152 | 2560+2540.2 | 22.57 | 24.00 | 1.390 | 0.14  | 0.311 | 0.432 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 22.64 | 23.00 | 1.086 | 0.07  | 0.335 | 0.364 |
|    | LTE Band 7_ANT 3  | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 22.64 | 23.00 | 1.086 | -0.08 | 0.305 | 0.331 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 23.02 | 24.80 | 1.507 | -0.06 | 0.434 | 0.654 |
| 70 | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 23.02 | 24.80 | 1.507 | -0.15 | 0.582 | 0.877 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 20850       | 2510        | 22.98 | 24.80 | 1.521 | 0.09  | 0.420 | 0.639 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21350       | 2560        | 23.01 | 24.80 | 1.510 | -0.04 | 0.530 | 0.800 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 22.00 | 23.80 | 1.514 | 0.15  | 0.297 | 0.450 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 22.00 | 23.80 | 1.514 | -0.04 | 0.364 | 0.551 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 100 | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 21.99 | 23.80 | 1.517 | 0.06  | 0.366 | 0.555 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI9/14 | 21100       | 2535        | 22.21 | 23.80 | 1.442 | -0.19 | 0.417 | 0.601 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI9/14 | 20850       | 2510        | 22.15 | 23.80 | 1.462 | -0.17 | 0.404 | 0.591 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI9/14 | 21350       | 2560        | 22.17 | 23.80 | 1.455 | 0.01  | 0.489 | 0.712 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI9/14 | 21100       | 2535        | 22.19 | 23.80 | 1.449 | 0.07  | 0.442 | 0.640 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 22.85 | 23.80 | 1.245 | -0.05 | 0.189 | 0.235 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1   | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 22.85 | 23.80 | 1.245 | -0.16 | 0.183 | 0.228 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 20850       | 2510        | 22.81 | 23.80 | 1.256 | 0.04  | 0.168 | 0.211 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 1   | 0 | Front | 15mm | - | DSI4    | 21350       | 2560        | 22.80 | 23.80 | 1.259 | 0.01  | 0.159 | 0.200 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50  | 0 | Front | 15mm | - | DSI4    | 21100       | 2535        | 22.10 | 22.80 | 1.175 | -0.06 | 0.146 | 0.172 |
|    | LTE Band 7_ANT 1  | 20M | QPSK | 50  | 0 | Back  | 15mm | - | DSI4    | 21100       | 2535        | 22.10 | 22.80 | 1.175 | -0.03 | 0.140 | 0.164 |





# FCC SAR TEST REPORT

Report No. : FA101920

|  |                    |     |      |     |   |      |      |   |         |             |             |       |       |       |      |       |       |       |       |
|--|--------------------|-----|------|-----|---|------|------|---|---------|-------------|-------------|-------|-------|-------|------|-------|-------|-------|-------|
|  | LTE Band 48_ANT 10 | 20M | QPSK | 1   | 0 | Back | 15mm | - | DSI9/14 | 55340       | 3560        | 21.04 | 21.80 | 1.191 | 62.9 | 1.006 | 0.16  | 0.229 | 0.274 |
|  | LTE Band 48_ANT 10 | 20M | QPSK | 1   | 0 | Back | 15mm | - | DSI9/14 | 56150       | 3641        | 21.12 | 21.80 | 1.169 | 62.9 | 1.006 | 0.08  | 0.524 | 0.616 |
|  | LTE Band 48_ANT 10 | 20M | QPSK | 1   | 0 | Back | 15mm | - | DSI9/14 | 56640       | 3690        | 21.15 | 21.80 | 1.161 | 62.9 | 1.006 | 0.17  | 0.654 | 0.764 |
|  | LTE Band 48_ANT 10 | 20M | QPSK | 1   | 0 | Back | 15mm | - | DSI9/14 | 56640+56442 | 3690+3670.2 | 19.88 | 21.80 | 1.556 | 62.9 | 1.006 | 0.04  | 0.485 | 0.759 |
|  | LTE Band 48_ANT 10 | 20M | QPSK | 50  | 0 | Back | 15mm | - | DSI9/14 | 55830       | 3609        | 21.25 | 21.80 | 1.135 | 62.9 | 1.006 | -0.18 | 0.387 | 0.442 |
|  | LTE Band 48_ANT 10 | 20M | QPSK | 100 | 0 | Back | 15mm | - | DSI9/14 | 55830       | 3609        | 21.24 | 21.80 | 1.138 | 62.9 | 1.006 | -0.17 | 0.410 | 0.469 |

## <5GNR SAR>

| Plot No. | Band      | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Headset | 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) |
|----------|-----------|----------|------------|---------|-----------|--------|---------------|----------|---------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | -0.09            | 0.192                  | 0.245                  |
| 73       | N71_Ant 0 | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 136100 | 680.5       | 23.35               | 24.40               | 1.274                  | -0.03            | 0.235                  | 0.299                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | -       | DSI4        | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | -0.14            | 0.185                  | 0.243                  |
|          | N71_Ant 0 | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | -       | DSI4        | 136100 | 680.5       | 23.22               | 24.40               | 1.312                  | -0.16            | 0.221                  | 0.290                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | 0.15             | 0.139                  | 0.168                  |
|          | N71_Ant 1 | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 136100 | 680.5       | 24.38               | 25.20               | 1.208                  | -0.07            | 0.168                  | 0.203                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | -       | DSI4        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | 0.08             | 0.149                  | 0.183                  |
|          | N71_Ant 1 | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | -       | DSI4        | 136100 | 680.5       | 24.31               | 25.20               | 1.227                  | -0.03            | 0.171                  | 0.210                  |
|          | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -0.14            | 0.238                  | 0.303                  |
| 74       | N5_Ant 0  | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -0.18            | 0.240                  | 0.306                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | 0.12             | 0.227                  | 0.299                  |
|          | N5_Ant 0  | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.00               | 24.20               | 1.318                  | -0.12            | 0.216                  | 0.285                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | -0.02            | 0.133                  | 0.164                  |
|          | N5_Ant 1  | 20M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.78               | 24.70               | 1.236                  | 0.08             | 0.141                  | 0.174                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | 0.16             | 0.116                  | 0.146                  |
|          | N5_Ant 1  | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | -       | DSI4        | 167300 | 836.5       | 23.69               | 24.70               | 1.262                  | -0.12            | 0.132                  | 0.167                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 24.20               | 25.20               | 1.259                  | 0.08             | 0.270                  | 0.340                  |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 24.20               | 25.20               | 1.259                  | 0.1              | 0.303                  | 0.381                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 24.18               | 25.20               | 1.265                  | 0.03             | 0.260                  | 0.329                  |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 24.18               | 25.20               | 1.265                  | 0.06             | 0.293                  | 0.371                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 24.29               | 25.20               | 1.233                  | 0.03             | 0.254                  | 0.313                  |
|          | N66_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 24.29               | 25.20               | 1.233                  | 0.16             | 0.332                  | 0.409                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 24.26               | 25.20               | 1.242                  | 0.13             | 0.175                  | 0.217                  |
|          | N66_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 24.26               | 25.20               | 1.242                  | -0.1             | 0.237                  | 0.294                  |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 23.88               | 25.20               | 1.355                  | 0.09             | 0.267                  | 0.362                  |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 23.88               | 25.20               | 1.355                  | -0.16            | 0.370                  | 0.501                  |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | 0.07             | 0.249                  | 0.339                  |
| 75       | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | -0.05            | 0.394                  | 0.536                  |
|          | N66_Ant 1 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 23.18               | 24.20               | 1.265                  | 0.07             | 0.183                  | 0.231                  |
|          | N66_Ant 1 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 23.18               | 24.20               | 1.265                  | -0.15            | 0.178                  | 0.225                  |
|          | N66_Ant 1 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 349000 | 1745        | 23.12               | 24.20               | 1.282                  | -0.09            | 0.208                  | 0.267                  |
|          | N66_Ant 1 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 349000 | 1745        | 23.12               | 24.20               | 1.282                  | -0.11            | 0.248                  | 0.318                  |
|          | N25_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.20               | 25.20               | 1.259                  | 0.12             | 0.144                  | 0.181                  |
|          | N25_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.20               | 25.20               | 1.259                  | -0.11            | 0.218                  | 0.274                  |
|          | N25_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | 0.07             | 0.148                  | 0.193                  |
|          | N25_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | 0.09             | 0.238                  | 0.310                  |
|          | N25_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.10               | 25.20               | 1.288                  | -0.01            | 0.244                  | 0.314                  |
| 76       | N25_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 376500 | 1882.5      | 24.10               | 25.20               | 1.288                  | -0.16            | 0.410                  | 0.528                  |
|          | N25_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 15mm     | -       | DSI4        | 376500 | 1882.5      | 23.90               | 25.20               | 1.349                  | 0.1              | 0.208                  | 0.281                  |
|          | N25_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 15mm     | -       | DSI4        | 376500 | 1882.5      | 23.90               | 25.20               | 1.349                  | -0.18            | 0.351                  | 0.473                  |
|          | N30_Ant 3 | 10M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 462000 | 2310        | 24.11               | 25.20               | 1.285                  | 0.08             | 0.134                  | 0.172                  |
|          | N30_Ant 3 | 10M      | QPSK       | 1       | 1         | DFT-15 | Back          | 15mm     | -       | DSI4        | 462000 | 2310        | 24.11               | 25.20               | 1.285                  | 0.16             | 0.139                  | 0.179                  |
|          | N30_Ant 3 | 10M      | QPSK       | 25      | 14        | DFT-15 | Front         | 15mm     | -       | DSI4        | 462000 | 2310        | 24.09               | 25.20               | 1.291                  | 0.15             | 0.124                  | 0.160                  |
|          | N30_Ant 3 | 10M      | QPSK       | 25      | 14        | DFT-15 | Back          | 15mm     | -       | DSI4        | 462000 | 2310        | 24.09               | 25.20               | 1.291                  | -0.09            | 0.136                  | 0.176                  |
|          | N30_Ant 2 | 10M      | QPSK       | 1       | 1         | DFT-15 | Front         | 15mm     | -       | DSI4        | 462000 | 2310        | 23.56               | 24.70               | 1.300                  | -0.17            | 0.122                  | 0.159                  |





# FCC SAR TEST REPORT

Report No. : FA101920

|    |            |      |      |     |    |        |       |      |   |         |        |         |       |       |       |       |       |       |
|----|------------|------|------|-----|----|--------|-------|------|---|---------|--------|---------|-------|-------|-------|-------|-------|-------|
|    | N77_Ant 10 | 100M | QPSK | 1   | 1  | DFT-30 | Back  | 15mm | - | DSI4    | 633334 | 3500.01 | 24.91 | 26.20 | 1.346 | -0.12 | 0.552 | 0.743 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Front | 15mm | - | DSI4    | 633334 | 3500.01 | 24.84 | 26.20 | 1.368 | -0.19 | 0.074 | 0.101 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Back  | 15mm | - | DSI4    | 633334 | 3500.01 | 24.84 | 26.20 | 1.368 | 0.19  | 0.483 | 0.661 |
|    | N77_Ant 10 | 100M | QPSK | 1   | 1  | DFT-30 | Back  | 15mm | - | DSI9/14 | 633334 | 3500.01 | 20.22 | 21.20 | 1.253 | 0.02  | 0.348 | 0.436 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Back  | 15mm | - | DSI9/14 | 633334 | 3500.01 | 20.16 | 21.20 | 1.271 | 0.05  | 0.329 | 0.418 |
|    | N77_Ant 10 | 100M | QPSK | 1   | 1  | DFT-30 | Front | 15mm | - | DSI4    | 656000 | 3840    | 25.10 | 26.20 | 1.288 | -0.06 | 0.027 | 0.035 |
| 81 | N77_Ant 10 | 100M | QPSK | 1   | 1  | DFT-30 | Back  | 15mm | - | DSI4    | 656000 | 3840    | 25.10 | 26.20 | 1.288 | -0.09 | 0.723 | 0.931 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Front | 15mm | - | DSI4    | 656000 | 3840    | 24.60 | 26.20 | 1.445 | 0.1   | 0.022 | 0.032 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Back  | 15mm | - | DSI4    | 656000 | 3840    | 24.60 | 26.20 | 1.445 | 0.1   | 0.557 | 0.805 |
|    | N77_Ant 10 | 100M | QPSK | 1   | 1  | DFT-30 | Back  | 15mm | - | DSI9/14 | 656000 | 3840    | 20.17 | 21.20 | 1.268 | 0.06  | 0.479 | 0.607 |
|    | N77_Ant 10 | 100M | QPSK | 135 | 69 | DFT-30 | Back  | 15mm | - | DSI9/14 | 656000 | 3840    | 20.15 | 21.20 | 1.274 | 0.02  | 0.321 | 0.409 |

## <5G NR SRS SAR>

| Plot No. | Band       | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Duty Cycle % | Pmax | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|--------------|------|------------------|------------------------|------------------------|
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 15mm     | DSI4        | 633334 | 3500.01     | 20.54               | 14           | 20.2 | 0.18             | 0.076                  | 0.010                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 15mm     | DSI4        | 633334 | 3500.01     | 20.54               | 14           | 20.2 | 0.03             | 0.312                  | 0.040                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 15mm     | DSI4        | 633334 | 3500.01     | 20.27               | 14           | 20.2 | 0.05             | 0.097                  | 0.013                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 15mm     | DSI4        | 633334 | 3500.01     | 20.27               | 14           | 20.2 | -0.12            | 0.483                  | 0.067                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 15mm     | DSI4        | 656000 | 3840        | 20.24               | 14           | 20.2 | -0.17            | 0.187                  | 0.026                  |
|          | N77_Ant 6  | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 15mm     | DSI4        | 656000 | 3840        | 20.24               | 14           | 20.2 | -0.11            | 0.420                  | 0.058                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 15mm     | DSI4        | 656000 | 3840        | 19.73               | 14           | 20.2 | 0.06             | 0.143                  | 0.022                  |
|          | N77_Ant 6  | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 15mm     | DSI4        | 656000 | 3840        | 19.73               | 14           | 20.2 | -0.07            | 0.296                  | 0.046                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 15mm     | DSI4        | 633334 | 3500.01     | 22.51               | 14           | 22.7 | 0.11             | 0.199                  | 0.029                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 15mm     | DSI4        | 633334 | 3500.01     | 22.51               | 14           | 22.7 | -0.02            | 0.377                  | 0.055                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 15mm     | DSI4        | 633334 | 3500.01     | 22.41               | 14           | 22.7 | 0.16             | 0.229                  | 0.034                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 15mm     | DSI4        | 633334 | 3500.01     | 22.41               | 14           | 22.7 | -0.09            | 0.448                  | 0.067                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Front         | 15mm     | DSI4        | 656000 | 3840        | 22.47               | 14           | 22.7 | 0.19             | 0.075                  | 0.011                  |
|          | N77_Ant 13 | 100M     | QPSK       | 1       | 1         | DFT-30 | Back          | 15mm     | DSI4        | 656000 | 3840        | 22.47               | 14           | 22.7 | -0.06            | 0.363                  | 0.054                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Front         | 15mm     | DSI4        | 656000 | 3840        | 22.46               | 14           | 22.7 | 0.08             | 0.100                  | 0.015                  |
|          | N77_Ant 13 | 100M     | QPSK       | 135     | 69        | DFT-30 | Back          | 15mm     | DSI4        | 656000 | 3840        | 22.46               | 14           | 22.7 | 0.19             | 0.559                  | 0.083                  |



## &lt;Bluetooth SAR&gt;

| Plot No. | Band      | Mode      | Test Position | Gap (mm) | Antenna | Headset | 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) |
|----------|-----------|-----------|---------------|----------|---------|---------|------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Ant 4   | -       | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | -0.12            | 0.063                  | 0.114                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Standalone(Full) | 39  | 2441        | 15.60               | 17.00               | 1.380                  | 76.1         | 1.314                     | -0.08            | 0.064                  | 0.116                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Standalone(Full) | 0   | 2402        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | 0.07             | 0.032                  | 0.062                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Standalone(Full) | 78  | 2480        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | -0.02            | 0.030                  | 0.058                  |
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Ant 4   | -       | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | -0.16            | 0.014                  | 0.021                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Simultaneous     | 39  | 2441        | 9.40                | 10.00               | 1.148                  | 76.1         | 1.314                     | 0.05             | 0.015                  | 0.023                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Simultaneous     | 0   | 2402        | 8.80                | 10.00               | 1.318                  | 76.1         | 1.314                     | -0.19            | 0.009                  | 0.016                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 4   | -       | Simultaneous     | 78  | 2480        | 9.20                | 10.00               | 1.202                  | 76.1         | 1.314                     | -0.12            | 0.016                  | 0.025                  |
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Ant 6   | -       | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | 0.06             | 0.067                  | 0.130                  |
| 82       | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Standalone(Full) | 39  | 2441        | 15.30               | 17.00               | 1.479                  | 76.1         | 1.314                     | 0.13             | 0.106                  | 0.206                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Standalone(Full) | 0   | 2402        | 15.10               | 17.00               | 1.549                  | 76.1         | 1.314                     | -0.02            | 0.033                  | 0.067                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Standalone(Full) | 78  | 2480        | 15.20               | 17.00               | 1.514                  | 76.1         | 1.314                     | -0.16            | 0.068                  | 0.135                  |
|          | Bluetooth | DH5 1Mbps | Front         | 15mm     | Ant 6   | -       | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | 0.12             | 0.017                  | 0.029                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Simultaneous     | 39  | 2441        | 10.80               | 12.00               | 1.318                  | 76.1         | 1.314                     | 0                | 0.032                  | 0.055                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Simultaneous     | 0   | 2402        | 10.40               | 12.00               | 1.445                  | 76.1         | 1.314                     | -0.03            | 0.030                  | 0.057                  |
|          | Bluetooth | DH5 1Mbps | Back          | 15mm     | Ant 6   | -       | Simultaneous     | 78  | 2480        | 10.00               | 12.00               | 1.585                  | 76.1         | 1.314                     | 0.18             | 0.029                  | 0.060                  |

## &lt;WLAN2.4G SAR&gt;

| Plot No. | Band       | Mode          | Test Position | Gap (mm) | Antenna | Headset | 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) |
|----------|------------|---------------|---------------|----------|---------|---------|------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15mm     | Ant 4+6 | -       | Standalone(Full) | 6   | 2437        | 20.56               | 22.00               | 1.393                  | 100          | 1.000                     | 0.16             | 0.255                  | 0.355                  |
| 83       | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Standalone(Full) | 6   | 2437        | 20.56               | 22.00               | 1.393                  | 100          | 1.000                     | -0.05            | 0.442                  | 0.616                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Standalone(Full) | 1   | 2412        | 20.46               | 22.00               | 1.426                  | 100          | 1.000                     | 0.19             | 0.386                  | 0.550                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Standalone(Full) | 11  | 2462        | 20.41               | 22.00               | 1.442                  | 100          | 1.000                     | 0.04             | 0.395                  | 0.570                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Front         | 15mm     | Ant 4+6 | -       | Simultaneous     | 6   | 2437        | 17.11               | 18.50               | 1.377                  | 100          | 1.000                     | 0.09             | 0.103                  | 0.142                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Simultaneous     | 6   | 2437        | 17.11               | 18.50               | 1.377                  | 100          | 1.000                     | -0.07            | 0.251                  | 0.346                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Simultaneous     | 1   | 2412        | 16.96               | 18.50               | 1.426                  | 100          | 1.000                     | -0.13            | 0.158                  | 0.225                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | Ant 4+6 | -       | Simultaneous     | 11  | 2462        | 17.01               | 18.50               | 1.409                  | 100          | 1.000                     | 0.15             | 0.159                  | 0.224                  |

## &lt;WLAN5G SAR&gt;

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Antenna  | Headset | 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) |
|----------|------------|---------------------|---------------|----------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 15mm     | Ant 13+9 | -       | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | 0.04             | 0.122                  | 0.171                  |
| 84       | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 15mm     | Ant 13+9 | -       | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | 0.02             | 0.229                  | 0.321                  |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 15mm     | Ant 13+9 | -       | Full            | 62  | 5310        | 19.54               | 21.00               | 1.400                  | 100          | 1.000                     | 0.02             | 0.215                  | 0.301                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 15mm     | Ant 13+9 | -       | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | 0.01             | 0.084                  | 0.121                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 15mm     | Ant 13+9 | -       | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | 0.13             | 0.096                  | 0.138                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 15mm     | Ant 13+9 | -       | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.03             | 0.105                  | 0.149                  |
| 85       | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 15mm     | Ant 13+9 | -       | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.02             | 0.110                  | 0.156                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Front         | 15mm     | Ant 13+9 | -       | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | -0.03            | 0.041                  | 0.061                  |
| 86       | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Back          | 15mm     | Ant 13+9 | -       | Full            | 155 | 5775        | 20.25               | 22.00               | 1.496                  | 100          | 1.000                     | 0.01             | 0.058                  | 0.086                  |

**18.4 Product Specific SAR****<WCDMA SAR>**

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Power State | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 1413 | 1732.6      | 23.88               | 24.80               | 1.236                  | 0.08             | 1.280                   | 1.582                   |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 1312 | 1712.4      | 23.79               | 24.80               | 1.262                  | 0.03             | 1.230                   | 1.552                   |
| 87       | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 1513 | 1752.6      | 23.87               | 24.80               | 1.239                  | -0.12            | 1.430                   | 1.771                   |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 1413 | 1732.6      | 20.09               | 21.00               | 1.233                  | 0.01             | 1.060                   | 1.307                   |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 1312 | 1712.4      | 19.94               | 21.00               | 1.276                  | -0.05            | 0.998                   | 1.274                   |
|          | WCDMA IV_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 1513 | 1752.6      | 20.08               | 21.00               | 1.236                  | 0.16             | 1.100                   | 1.360                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI1        | 9400 | 1880        | 21.12               | 21.80               | 1.169                  | 0.02             | 1.280                   | 1.497                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI1        | 9262 | 1852.4      | 20.99               | 21.80               | 1.205                  | 0.06             | 1.230                   | 1.482                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI1        | 9538 | 1907.6      | 20.99               | 21.80               | 1.205                  | 0.17             | 1.430                   | 1.723                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 8mm      | DSI4        | 9538 | 1907.6      | 23.78               | 24.80               | 1.265                  | 0.02             | 0.655                   | 0.828                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI6/11     | 9400 | 1880        | 20.17               | 20.80               | 1.156                  | -0.04            | 1.060                   | 1.225                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI6/11     | 9262 | 1852.4      | 20.03               | 20.80               | 1.194                  | -0.15            | 0.998                   | 1.192                   |
|          | WCDMA II_ANT 2 | RMC 12.2Kbps | Left Side     | 0mm      | DSI6/11     | 9538 | 1907.6      | 20.09               | 20.80               | 1.178                  | 0.15             | 1.100                   | 1.295                   |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 9400 | 1880        | 23.80               | 24.80               | 1.259                  | -0.09            | 1.770                   | 2.228                   |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 9262 | 1852.4      | 23.65               | 24.80               | 1.303                  | 0.17             | 1.560                   | 2.033                   |
| 88       | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI4        | 9538 | 1907.6      | 23.68               | 24.80               | 1.294                  | 0.01             | 1.900                   | 2.459                   |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 9400 | 1880        | 19.77               | 20.80               | 1.268                  | -0.16            | 1.490                   | 1.889                   |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 9262 | 1852.4      | 19.61               | 20.80               | 1.315                  | -0.01            | 1.450                   | 1.907                   |
|          | WCDMA II_ANT 3 | RMC 12.2Kbps | Bottom Side   | 0mm      | DSI9/14     | 9538 | 1907.6      | 19.64               | 20.80               | 1.306                  | 0.12             | 1.530                   | 1.998                   |

**<FDD LTE SAR>**

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI4        | 132322 | 1745        | 23.92               | 24.80               | 1.225                  | 0.1              | 1.370                   | 1.678                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI4        | 132072 | 1720        | 23.72               | 24.80               | 1.282                  | 0.13             | 1.090                   | 1.398                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI4        | 132572 | 1770        | 23.75               | 24.80               | 1.274                  | 0.19             | 1.210                   | 1.541                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | DSI4        | 132322 | 1745        | 22.89               | 23.80               | 1.233                  | 0.15             | 1.170                   | 1.443                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI9/14     | 132322 | 1745        | 20.32               | 21.30               | 1.253                  | -0.11            | 0.992                   | 1.243                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI9/14     | 132072 | 1720        | 20.30               | 21.30               | 1.259                  | 0.18             | 0.932                   | 1.173                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | DSI9/14     | 132572 | 1770        | 20.27               | 21.30               | 1.268                  | 0.14             | 1.040                   | 1.318                   |
|          | LTE Band 66_ANT 3 | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | DSI9/14     | 132322 | 1745        | 20.31               | 21.30               | 1.256                  | 0.12             | 0.950                   | 1.193                   |
| 89       | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | DSI4        | 132322 | 1745        | 23.95               | 24.80               | 1.216                  | -0.02            | 2.090                   | 2.542                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | DSI4        | 132072 | 1720        | 23.91               | 24.80               | 1.227                  | -0.05            | 1.760                   | 2.160                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Front         | 0mm      | DSI4        | 132572 | 1770        | 23.88               | 24.80               | 1.236                  | 0.16             | 1.830                   | 2.262                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DSI1        | 132322 | 1745        | 21.21               | 21.80               | 1.146                  | 0.16             | 1.610                   | 1.844                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | DSI1        | 132322 | 1745        | 21.21               | 21.80               | 1.146                  | -0.05            | 1.970                   | 2.257                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | DSI1        | 132072 | 1720        | 21.18               | 21.80               | 1.153                  | 0.03             | 2.180                   | 2.515                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | DSI1        | 132572 | 1770        | 21.15               | 21.80               | 1.161                  | 0.13             | 1.920                   | 2.230                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Back          | 12mm     | DSI4        | 132322 | 1745        | 23.95               | 24.80               | 1.216                  | 0.14             | 0.490                   | 0.596                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | Top Side      | 8mm      | DSI4        | 132072 | 1720        | 23.91               | 24.80               | 1.227                  | -0.06            | 0.667                   | 0.819                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Front         | 0mm      | DSI4        | 132322 | 1745        | 22.86               | 23.80               | 1.242                  | 0.04             | 2.000                   | 2.483                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Front         | 0mm      | DSI4        | 132072 | 1720        | 22.85               | 23.80               | 1.245                  | 0                | 1.730                   | 2.153                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Front         | 0mm      | DSI4        | 132572 | 1770        | 22.83               | 23.80               | 1.250                  | -0.02            | 1.760                   | 2.200                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DSI1        | 132322 | 1745        | 21.16               | 21.80               | 1.159                  | -0.05            | 1.720                   | 1.993                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Top Side      | 0mm      | DSI1        | 132322 | 1745        | 21.16               | 21.80               | 1.159                  | -0.07            | 1.800                   | 2.086                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Top Side      | 0mm      | DSI1        | 132072 | 1720        | 21.14               | 21.80               | 1.164                  | 0.07             | 2.130                   | 2.480                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Top Side      | 0mm      | DSI1        | 132572 | 1770        | 21.15               | 21.80               | 1.161                  | -0.12            | 1.910                   | 2.218                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 50      | 0         | Back          | 12mm     | DSI4        | 132322 | 1745        | 22.86               | 23.80               | 1.242                  | 0.01             | 0.346                   | 0.430                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 100     | 0         | Front         | 0mm      | DSI4        | 132322 | 1745        | 22.84               | 23.80               | 1.247                  | 0.01             | 1.950                   | 2.432                   |
|          | LTE Band 66_ANT 5 | 20M      | QPSK       | 100     | 0         | Top Side      | 0mm      | DSI1        | 132322 | 1745        | 21.15               | 21.80               | 1.161                  | 0.03             | 1.910                   | 2.218                   |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                   |     |      |     |   |             |      |         |             |             |       |       |       |       |       |       |
|----|-------------------|-----|------|-----|---|-------------|------|---------|-------------|-------------|-------|-------|-------|-------|-------|-------|
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Front       | 0mm  | DSI9/14 | 132322      | 1745        | 19.65 | 20.30 | 1.161 | -0.07 | 1.490 | 1.731 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Front       | 0mm  | DSI9/14 | 132072      | 1720        | 19.62 | 20.30 | 1.169 | 0.02  | 1.330 | 1.555 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Front       | 0mm  | DSI9/14 | 132572      | 1770        | 19.61 | 20.30 | 1.172 | 0.09  | 1.360 | 1.594 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Back        | 0mm  | DSI6/11 | 132322      | 1745        | 19.65 | 20.30 | 1.161 | -0.1  | 1.150 | 1.336 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 1   | 0 | Top Side    | 0mm  | DSI6/11 | 132322      | 1745        | 19.65 | 20.30 | 1.161 | 0.19  | 0.988 | 1.148 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Front       | 0mm  | DSI9/14 | 132322      | 1745        | 19.62 | 20.30 | 1.169 | 0.06  | 1.310 | 1.532 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Back        | 0mm  | DSI6/11 | 132322      | 1745        | 19.62 | 20.30 | 1.169 | -0.05 | 1.020 | 1.193 |
|    | LTE Band 66_ANT 5 | 20M | QPSK | 50  | 0 | Top Side    | 0mm  | DSI6/11 | 132322      | 1745        | 19.62 | 20.30 | 1.169 | -0.13 | 0.953 | 1.115 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 26340       | 1880        | 21.20 | 22.00 | 1.202 | -0.05 | 1.350 | 1.623 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 26140       | 1860        | 21.02 | 22.00 | 1.253 | -0.06 | 1.270 | 1.591 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 26590       | 1905        | 21.19 | 22.00 | 1.205 | 0.02  | 1.710 | 2.061 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 8mm  | DSI4    | 26590       | 1905        | 24.03 | 24.80 | 1.194 | 0.07  | 0.632 | 0.755 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI1    | 26340       | 1880        | 21.06 | 22.00 | 1.242 | 0.06  | 1.520 | 1.887 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 100 | 0 | Left Side   | 0mm  | DSI1    | 26340       | 1880        | 21.05 | 22.00 | 1.245 | -0.15 | 1.320 | 1.643 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 26340       | 1880        | 20.41 | 21.00 | 1.146 | -0.17 | 1.210 | 1.386 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 26140       | 1860        | 20.26 | 21.00 | 1.186 | 0.01  | 1.070 | 1.269 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 26590       | 1905        | 20.26 | 21.00 | 1.186 | -0.04 | 1.220 | 1.447 |
|    | LTE Band 25_ANT 2 | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI6/11 | 26340       | 1880        | 20.27 | 21.00 | 1.183 | 0.01  | 1.170 | 1.384 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI4    | 26340       | 1880        | 23.74 | 24.80 | 1.276 | -0.1  | 1.670 | 2.132 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI4    | 26140       | 1860        | 23.57 | 24.80 | 1.327 | -0.18 | 1.540 | 2.044 |
| 90 | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI4    | 26590       | 1905        | 23.62 | 24.80 | 1.312 | -0.17 | 1.700 | 2.231 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Bottom Side | 0mm  | DSI4    | 26340       | 1880        | 22.77 | 23.80 | 1.268 | -0.04 | 1.730 | 2.193 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Bottom Side | 0mm  | DSI4    | 26140       | 1860        | 22.71 | 23.80 | 1.285 | -0.11 | 1.600 | 2.056 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Bottom Side | 0mm  | DSI4    | 26590       | 1905        | 22.74 | 23.80 | 1.276 | 0.17  | 1.630 | 2.081 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 100 | 0 | Bottom Side | 0mm  | DSI4    | 26340       | 1880        | 22.75 | 23.80 | 1.274 | 0.05  | 1.650 | 2.101 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI9/14 | 26340       | 1880        | 20.08 | 21.30 | 1.324 | 0.15  | 1.420 | 1.881 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI9/14 | 26140       | 1860        | 20.02 | 21.30 | 1.343 | -0.05 | 1.380 | 1.853 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI9/14 | 26590       | 1905        | 20.06 | 21.30 | 1.330 | -0.13 | 1.460 | 1.942 |
|    | LTE Band 25_ANT 3 | 20M | QPSK | 50  | 0 | Bottom Side | 0mm  | DSI9/14 | 26340       | 1880        | 20.05 | 21.30 | 1.334 | -0.06 | 1.380 | 1.840 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI4    | 27710       | 2310        | 23.59 | 24.80 | 1.321 | 0.02  | 1.850 | 2.444 |
| 91 | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Bottom Side | 0mm  | DSI4    | 27710       | 2310        | 22.50 | 23.80 | 1.349 | 0.06  | 1.860 | 2.509 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 50  | 0 | Bottom Side | 0mm  | DSI4    | 27710       | 2310        | 22.30 | 23.80 | 1.413 | 0.1   | 1.700 | 2.401 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 1   | 0 | Bottom Side | 0mm  | DSI9/14 | 27710       | 2310        | 19.41 | 20.80 | 1.377 | 0.16  | 1.350 | 1.859 |
|    | LTE Band 30_ANT 3 | 10M | QPSK | 25  | 0 | Bottom Side | 0mm  | DSI9/14 | 27710       | 2310        | 19.38 | 20.80 | 1.387 | -0.08 | 1.260 | 1.747 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 21100       | 2535        | 20.52 | 21.50 | 1.253 | -0.09 | 1.720 | 2.155 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 20850       | 2510        | 20.40 | 21.50 | 1.288 | 0.05  | 1.590 | 2.048 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 21350       | 2560        | 20.41 | 21.50 | 1.285 | -0.02 | 1.650 | 2.121 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 8mm  | DSI4    | 21100       | 2535        | 23.50 | 24.00 | 1.122 | 0.05  | 0.552 | 0.619 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI1    | 21100       | 2535        | 20.50 | 21.50 | 1.259 | -0.13 | 1.870 | 2.354 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI1    | 21100+21298 | 2535+2554.8 | 20.37 | 21.50 | 1.297 | 0.09  | 1.710 | 2.218 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI1    | 20850       | 2510        | 20.35 | 21.50 | 1.303 | 0.13  | 1.620 | 2.111 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI1    | 21350       | 2560        | 20.31 | 21.50 | 1.315 | -0.08 | 1.660 | 2.183 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Side   | 8mm  | DSI4    | 21100       | 2535        | 22.66 | 23.00 | 1.081 | 0.02  | 0.497 | 0.537 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 100 | 0 | Left Side   | 0mm  | DSI1    | 21100       | 2535        | 20.33 | 21.50 | 1.309 | -0.16 | 1.700 | 2.226 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 21100       | 2535        | 20.16 | 21.00 | 1.213 | -0.02 | 1.570 | 1.905 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 20850       | 2510        | 19.91 | 21.00 | 1.285 | 0.15  | 1.500 | 1.928 |
|    | LTE Band 7C_ANT 2 | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 20850+21048 | 2510+2529.8 | 20.00 | 21.00 | 1.259 | 0.03  | 1.490 | 1.876 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 1   | 0 | Left Side   | 0mm  | DSI6/11 | 21350       | 2560        | 20.09 | 21.00 | 1.233 | 0.08  | 1.470 | 1.813 |
|    | LTE Band 7_ANT 2  | 20M | QPSK | 50  | 0 | Left Side   | 0mm  | DSI6/11 | 21100       | 2535        | 20.12 | 21.00 | 1.225 | -0.11 | 1.530 | 1.874 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back        | 0mm  | DSI1    | 21100       | 2535        | 19.85 | 21.30 | 1.396 | 0.11  | 0.983 | 1.373 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Top Side    | 0mm  | DSI1    | 21100       | 2535        | 19.85 | 21.30 | 1.396 | 0.05  | 1.610 | 2.248 |
| 92 | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Top Side    | 0mm  | DSI1    | 20850       | 2510        | 19.84 | 21.30 | 1.400 | -0.18 | 1.910 | 2.673 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Top Side    | 0mm  | DSI1    | 21350       | 2560        | 19.84 | 21.30 | 1.400 | 0.12  | 1.710 | 2.393 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Back        | 12mm | DSI4    | 21100       | 2535        | 23.02 | 24.80 | 1.507 | 0.16  | 0.246 | 0.371 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 1   | 0 | Top Side    | 8mm  | DSI4    | 20850       | 2510        | 22.98 | 24.80 | 1.521 | 0.08  | 1.330 | 2.022 |
|    | LTE Band 7_ANT 5  | 20M | QPSK | 50  | 0 | Back        | 0mm  | DSI1    | 21100       | 2535        | 19.82 | 21.30 | 1.406 | -0.13 | 0.856 | 1.204 |



# FCC SAR TEST REPORT

Report No. : FA1O1920

|  |                  |     |      |     |   |          |     |         |       |      |       |       |       |       |       |       |
|--|------------------|-----|------|-----|---|----------|-----|---------|-------|------|-------|-------|-------|-------|-------|-------|
|  | LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Top Side | 0mm | DS11    | 21100 | 2535 | 19.82 | 21.30 | 1.406 | -0.02 | 1.490 | 2.095 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Top Side | 0mm | DS11    | 20850 | 2510 | 19.76 | 21.30 | 1.426 | -0.09 | 1.870 | 2.666 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Top Side | 0mm | DS11    | 21350 | 2560 | 19.80 | 21.30 | 1.413 | -0.11 | 1.690 | 2.387 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 100 | 0 | Top Side | 0mm | DS11    | 21100 | 2535 | 19.81 | 21.30 | 1.409 | 0.09  | 1.670 | 2.354 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Back     | 0mm | DS16/11 | 21100 | 2535 | 18.25 | 19.80 | 1.429 | -0.11 | 0.637 | 0.910 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Top Side | 0mm | DS16/11 | 21100 | 2535 | 18.25 | 19.80 | 1.429 | 0.18  | 1.080 | 1.543 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Top Side | 0mm | DS16/11 | 20850 | 2510 | 18.19 | 19.80 | 1.449 | 0.05  | 1.010 | 1.463 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 1   | 0 | Top Side | 0mm | DS16/11 | 21350 | 2560 | 18.19 | 19.80 | 1.449 | -0.03 | 1.030 | 1.492 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Back     | 0mm | DS16/11 | 21100 | 2535 | 18.23 | 19.80 | 1.435 | -0.01 | 0.628 | 0.901 |
|  | LTE Band 7_ANT 5 | 20M | QPSK | 50  | 0 | Top Side | 0mm | DS16/11 | 21100 | 2535 | 18.23 | 19.80 | 1.435 | 0.15  | 1.043 | 1.497 |



# FCC SAR TEST REPORT

Report No. : FA101920

## <TDD LTE SAR>

| Plot No. | Band                     | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | 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 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|--------------------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|---------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 40185       | 2549.5        | 23.94               | 24.60               | 1.164                  | 42.9         | 1.009                     | -0.1             | 1.450                   | 1.703                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 39750       | 2506          | 23.89               | 24.60               | 1.178                  | 42.9         | 1.009                     | -0.1             | 1.120                   | 1.331                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 40620       | 2593          | 23.82               | 24.60               | 1.197                  | 42.9         | 1.009                     | -0.06            | 1.780                   | 2.149                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 41055       | 2636.5        | 23.64               | 24.60               | 1.247                  | 42.9         | 1.009                     | -0.16            | 1.440                   | 1.812                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 41490       | 2680          | 23.70               | 24.60               | 1.230                  | 42.9         | 1.009                     | 0.15             | 1.560                   | 1.936                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 8mm      | DS14        | 40620       | 2593          | 25.49               | 26.80               | 1.352                  | 42.9         | 1.009                     | -0.06            | 0.535                   | 0.730                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS11        | 40185       | 2549.5        | 23.89               | 24.60               | 1.178                  | 42.9         | 1.009                     | -0.12            | 1.330                   | 1.580                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS11        | 39750       | 2506          | 23.87               | 24.60               | 1.183                  | 42.9         | 1.009                     | -0.19            | 1.810                   | 2.161                   |
| 93       | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS11        | 40620       | 2593          | 23.79               | 24.60               | 1.205                  | 42.9         | 1.009                     | -0.16            | 2.010                   | 2.444                   |
|          | LTE Band 41C(HPUE)_ANT 2 | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS11        | 40620+40422 | 2593+2573.2   | 23.62               | 24.60               | 1.253                  | 42.9         | 1.009                     | 0.08             | 1.710                   | 2.162                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS11        | 41055       | 2636.5        | 23.58               | 24.60               | 1.265                  | 42.9         | 1.009                     | -0.17            | 1.420                   | 1.812                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS11        | 41490       | 2680          | 23.65               | 24.60               | 1.245                  | 42.9         | 1.009                     | -0.03            | 1.740                   | 2.185                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 8mm      | DS14        | 40620       | 2593          | 24.47               | 25.80               | 1.358                  | 42.9         | 1.009                     | 0.08             | 0.411                   | 0.563                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 100     | 0         | Left Side     | 0mm      | DS11        | 40185       | 2549.5        | 23.83               | 24.60               | 1.194                  | 42.9         | 1.009                     | 0.03             | 1.980                   | 2.385                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 40185       | 2549.5        | 21.49               | 22.60               | 1.291                  | 42.9         | 1.009                     | 0.14             | 1.020                   | 1.329                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 39750       | 2506          | 21.44               | 22.60               | 1.306                  | 42.9         | 1.009                     | 0.16             | 0.926                   | 1.220                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 40620       | 2593          | 21.37               | 22.60               | 1.327                  | 42.9         | 1.009                     | -0.18            | 1.130                   | 1.513                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 41055       | 2636.5        | 21.19               | 22.60               | 1.384                  | 42.9         | 1.009                     | 0.13             | 1.110                   | 1.550                   |
|          | LTE Band 41C(HPUE)_ANT 2 | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 41055+40857 | 2636.5+2616.7 | 21.36               | 22.60               | 1.330                  | 42.9         | 1.009                     | 0.16             | 1.030                   | 1.383                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 1       | 0         | Left Side     | 0mm      | DS16/11     | 41490       | 2680          | 21.25               | 22.60               | 1.365                  | 42.9         | 1.009                     | -0.04            | 1.120                   | 1.542                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 50      | 0         | Left Side     | 0mm      | DS16/11     | 40185       | 2549.5        | 21.44               | 22.60               | 1.306                  | 42.9         | 1.009                     | 0.03             | 0.972                   | 1.281                   |
|          | LTE Band 41(HPUE)_ANT 2  | 20M      | QPSK       | 100     | 0         | Left Side     | 0mm      | DS16/11     | 40185       | 2549.5        | 21.38               | 22.60               | 1.324                  | 42.9         | 1.009                     | 0.07             | 1.000                   | 1.336                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS11        | 55830       | 3609          | 19.82               | 20.30               | 1.117                  | 62.9         | 1.006                     | -0.03            | 2.150                   | 2.416                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS11        | 55340       | 3560          | 19.68               | 20.30               | 1.153                  | 62.9         | 1.006                     | -0.11            | 2.120                   | 2.460                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS11        | 56150       | 3641          | 19.69               | 20.30               | 1.151                  | 62.9         | 1.006                     | 0.09             | 2.230                   | 2.582                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS11        | 56640       | 3690          | 19.70               | 20.30               | 1.148                  | 62.9         | 1.006                     | -0.1             | 1.860                   | 2.148                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 12mm     | DS14        | 56150       | 3641          | 24.18               | 24.80               | 1.153                  | 62.9         | 1.006                     | 0.02             | 0.315                   | 0.366                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS11        | 55830       | 3609          | 19.80               | 20.30               | 1.122                  | 62.9         | 1.006                     | -0.03            | 2.310                   | 2.607                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS11        | 55340       | 3560          | 19.66               | 20.30               | 1.159                  | 62.9         | 1.006                     | 0.08             | 2.190                   | 2.553                   |
| 94       | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS11        | 56150       | 3641          | 19.68               | 20.30               | 1.153                  | 62.9         | 1.006                     | 0.04             | 2.360                   | 2.738                   |
|          | LTE Band 48C_ANT 10      | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS11        | 56150+55952 | 3641+3621.2   | 19.00               | 20.30               | 1.349                  | 62.9         | 1.006                     | 0.01             | 2.000                   | 2.714                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS11        | 56640       | 3690          | 19.67               | 20.30               | 1.156                  | 62.9         | 1.006                     | -0.19            | 2.300                   | 2.675                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 12mm     | DS14        | 56150       | 3641          | 23.26               | 23.80               | 1.132                  | 62.9         | 1.006                     | 0.06             | 0.269                   | 0.306                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 100     | 0         | Back          | 0mm      | DS11        | 55830       | 3609          | 19.75               | 20.30               | 1.135                  | 62.9         | 1.006                     | 0.09             | 2.310                   | 2.638                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS16/11     | 55830       | 3609          | 18.39               | 18.80               | 1.099                  | 62.9         | 1.006                     | 0.01             | 1.690                   | 1.868                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS16/11     | 55340       | 3560          | 18.30               | 18.80               | 1.122                  | 62.9         | 1.006                     | 0.02             | 1.660                   | 1.874                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS16/11     | 56150       | 3641          | 18.35               | 18.80               | 1.109                  | 62.9         | 1.006                     | -0.08            | 1.710                   | 1.908                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 1       | 0         | Back          | 0mm      | DS16/11     | 56640       | 3690          | 18.36               | 18.80               | 1.107                  | 62.9         | 1.006                     | 0.11             | 1.760                   | 1.959                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS16/11     | 55830       | 3609          | 18.37               | 18.80               | 1.104                  | 62.9         | 1.006                     | -0.05            | 1.710                   | 1.899                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS16/11     | 55340       | 3560          | 18.29               | 18.80               | 1.125                  | 62.9         | 1.006                     | -0.07            | 1.750                   | 1.980                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS16/11     | 56150       | 3641          | 18.34               | 18.80               | 1.112                  | 62.9         | 1.006                     | 0.11             | 1.780                   | 1.991                   |
|          | LTE Band 48C_ANT 10      | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS16/11     | 56150+55952 | 3641+3621.2   | 17.58               | 18.80               | 1.324                  | 62.9         | 1.006                     | 0.12             | 1.480                   | 1.972                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 50      | 0         | Back          | 0mm      | DS16/11     | 56640       | 3690          | 18.33               | 18.80               | 1.114                  | 62.9         | 1.006                     | 0.01             | 1.770                   | 1.984                   |
|          | LTE Band 48_ANT 10       | 20M      | QPSK       | 100     | 0         | Back          | 0mm      | DS16/11     | 55830       | 3609          | 18.37               | 18.80               | 1.104                  | 62.9         | 1.006                     | 0.06             | 1.660                   | 1.844                   |



# FCC SAR TEST REPORT

Report No. : FA101920

## <5GNR SAR>

| Plot No. | Band      | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Power State | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|-----------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 95       | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 349000 | 1745        | 24.20               | 25.20               | 1.259                  | 0.01             | 2.140                   | 2.694                   |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 349000 | 1745        | 24.18               | 25.20               | 1.265                  | 0.02             | 1.860                   | 2.352                   |
|          | N66_Ant 3 | 40M      | QPSK       | 216     | 0         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 349000 | 1745        | 23.13               | 24.20               | 1.279                  | 0.02             | 2.070                   | 2.648                   |
|          | N66_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 349000 | 1745        | 21.38               | 22.20               | 1.208                  | -0.02            | 1.390                   | 1.679                   |
|          | N66_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 349000 | 1745        | 21.29               | 22.20               | 1.233                  | -0.16            | 1.320                   | 1.628                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 0mm      | DSI4        | 349000 | 1745        | 23.88               | 25.20               | 1.355                  | 0.09             | 1.870                   | 2.534                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 0mm      | DSI1        | 349000 | 1745        | 20.01               | 21.20               | 1.315                  | -0.09            | 1.410                   | 1.854                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Top Side      | 0mm      | DSI1        | 349000 | 1745        | 20.01               | 21.20               | 1.315                  | -0.11            | 1.560                   | 2.052                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 12mm     | DSI4        | 349000 | 1745        | 23.88               | 25.20               | 1.355                  | 0.02             | 0.305                   | 0.413                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Top Side      | 8mm      | DSI4        | 349000 | 1745        | 23.88               | 25.20               | 1.355                  | 0.06             | 0.668                   | 0.905                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 0mm      | DSI4        | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | -0.08            | 1.860                   | 2.532                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 0mm      | DSI1        | 349000 | 1745        | 19.92               | 21.20               | 1.343                  | -0.01            | 1.210                   | 1.625                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Top Side      | 0mm      | DSI1        | 349000 | 1745        | 19.92               | 21.20               | 1.343                  | 0.17             | 1.770                   | 2.377                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 12mm     | DSI4        | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | 0.03             | 0.301                   | 0.410                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Top Side      | 8mm      | DSI4        | 349000 | 1745        | 23.86               | 25.20               | 1.361                  | -0.11            | 0.679                   | 0.924                   |
|          | N66_Ant 5 | 40M      | QPSK       | 216     | 0         | DFT-15 | Front         | 0mm      | DSI4        | 349000 | 1745        | 22.90               | 24.20               | 1.349                  | -0.13            | 1.830                   | 2.469                   |
|          | N66_Ant 5 | 40M      | QPSK       | 216     | 0         | DFT-15 | Top Side      | 0mm      | DSI1        | 349000 | 1745        | 19.89               | 21.20               | 1.352                  | 0.04             | 1.470                   | 1.988                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Front         | 0mm      | DSI9/14     | 349000 | 1745        | 18.99               | 20.20               | 1.321                  | 0.06             | 1.240                   | 1.638                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Back          | 0mm      | DSI6/11     | 349000 | 1745        | 18.99               | 20.20               | 1.321                  | 0.01             | 1.190                   | 1.572                   |
|          | N66_Ant 5 | 40M      | QPSK       | 1       | 1         | DFT-15 | Top Side      | 0mm      | DSI6/11     | 349000 | 1745        | 18.99               | 20.20               | 1.321                  | -0.14            | 1.210                   | 1.599                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Front         | 0mm      | DSI9/14     | 349000 | 1745        | 18.93               | 20.20               | 1.340                  | 0.02             | 1.180                   | 1.581                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Back          | 0mm      | DSI6/11     | 349000 | 1745        | 18.93               | 20.20               | 1.340                  | 0.08             | 1.040                   | 1.393                   |
|          | N66_Ant 5 | 40M      | QPSK       | 108     | 54        | DFT-15 | Top Side      | 0mm      | DSI6/11     | 349000 | 1745        | 18.93               | 20.20               | 1.340                  | 0.04             | 1.190                   | 1.594                   |
|          | N25_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 376500 | 1882.5      | 24.20               | 25.20               | 1.259                  | 0.06             | 1.900                   | 2.392                   |
|          | N25_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 376500 | 1882.5      | 24.05               | 25.20               | 1.303                  | 0.05             | 1.650                   | 2.150                   |
|          | N25_Ant 3 | 40M      | QPSK       | 216     | 0         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 376500 | 1882.5      | 23.50               | 24.20               | 1.175                  | 0.05             | 1.840                   | 2.162                   |
|          | N25_Ant 3 | 40M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 376500 | 1882.5      | 20.14               | 21.20               | 1.276                  | -0.1             | 1.440                   | 1.838                   |
|          | N25_Ant 3 | 40M      | QPSK       | 108     | 54        | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 376500 | 1882.5      | 20.11               | 21.20               | 1.285                  | -0.12            | 1.390                   | 1.787                   |
| 96       | N25_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 0mm      | DSI1        | 376500 | 1882.5      | 21.19               | 22.20               | 1.262                  | -0.03            | 2.070                   | 2.612                   |
|          | N25_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 8mm      | DSI4        | 376500 | 1882.5      | 24.10               | 25.20               | 1.288                  | 0.03             | 0.479                   | 0.617                   |
|          | N25_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Side     | 0mm      | DSI1        | 376500 | 1882.5      | 21.13               | 22.20               | 1.279                  | 0.07             | 1.820                   | 2.328                   |
|          | N25_Ant 2 | 40M      | QPSK       | 216     | 0         | DFT-15 | Left Side     | 0mm      | DSI1        | 376500 | 1882.5      | 21.12               | 22.20               | 1.282                  | 0.01             | 1.770                   | 2.270                   |
|          | N25_Ant 2 | 40M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 0mm      | DSI6/11     | 376500 | 1882.5      | 19.80               | 20.70               | 1.230                  | 0.07             | 1.540                   | 1.895                   |
|          | N25_Ant 2 | 40M      | QPSK       | 108     | 54        | DFT-15 | Left Side     | 0mm      | DSI6/11     | 376500 | 1882.5      | 19.65               | 20.70               | 1.274                  | -0.05            | 1.560                   | 1.987                   |
| 97       | N30_Ant 3 | 10M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 462000 | 2310        | 24.11               | 25.20               | 1.285                  | 0.06             | 2.000                   | 2.571                   |
|          | N30_Ant 3 | 10M      | QPSK       | 25      | 14        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 462000 | 2310        | 24.09               | 25.20               | 1.291                  | -0.13            | 1.780                   | 2.298                   |
|          | N30_Ant 3 | 10M      | QPSK       | 50      | 0         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 462000 | 2310        | 22.60               | 24.20               | 1.445                  | 0.06             | 1.740                   | 2.515                   |
|          | N30_Ant 3 | 10M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 462000 | 2310        | 18.68               | 19.70               | 1.265                  | 0.06             | 1.422                   | 1.798                   |
|          | N30_Ant 3 | 10M      | QPSK       | 25      | 14        | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 462000 | 2310        | 18.61               | 19.70               | 1.285                  | -0.12            | 1.258                   | 1.617                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 507000 | 2535        | 23.10               | 24.20               | 1.288                  | 0.04             | 1.780                   | 2.293                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 502000 | 2510        | 23.05               | 24.20               | 1.303                  | 0.06             | 1.400                   | 1.824                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 512000 | 2560        | 23.03               | 24.20               | 1.309                  | 0.01             | 1.390                   | 1.820                   |
|          | N7_Ant 3  | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 507000 | 2535        | 23.00               | 24.20               | 1.318                  | 0.08             | 1.910                   | 2.518                   |
|          | N7_Ant 3  | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 502000 | 2510        | 22.96               | 24.20               | 1.330                  | 0.03             | 1.430                   | 1.903                   |
|          | N7_Ant 3  | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 0mm      | DSI4        | 512000 | 2560        | 22.93               | 24.20               | 1.340                  | -0.06            | 1.500                   | 2.010                   |
|          | N7_Ant 3  | 20M      | QPSK       | 100     | 0         | DFT-15 | Bottom Side   | 0mm      | DSI4        | 507000 | 2535        | 23.03               | 24.20               | 1.309                  | -0.05            | 1.850                   | 2.422                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 507000 | 2535        | 17.55               | 18.70               | 1.303                  | 0.01             | 1.210                   | 1.577                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 502000 | 2510        | 17.53               | 18.70               | 1.309                  | 0.03             | 1.070                   | 1.401                   |
|          | N7_Ant 3  | 20M      | QPSK       | 1       | 1         | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 512000 | 2560        | 17.49               | 18.70               | 1.321                  | -0.05            | 1.030                   | 1.361                   |
|          | N7_Ant 3  | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 0mm      | DSI9/14     | 507000 | 2535        | 17.49               | 18.70               | 1.321                  | 0.05             | 1.120                   | 1.480                   |
| 98       | N7_Ant 2  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 0mm      | DSI1        | 507000 | 2535        | 19.61               | 20.70               | 1.285                  | 0.12             | 2.000                   | 2.571                   |
|          | N7_Ant 2  | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Side     | 0mm      | DSI1        | 502000 | 2510        | 19.52               | 20.70               | 1.312                  | 0.02             | 1.750                   | 2.296                   |



# FCC SAR TEST REPORT

Report No. : FA101920

|    |                |      |      |     |    |        |             |      |           |        |         |       |       |       |       |       |       |
|----|----------------|------|------|-----|----|--------|-------------|------|-----------|--------|---------|-------|-------|-------|-------|-------|-------|
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 0mm  | DSI1      | 512000 | 2560    | 19.51 | 20.70 | 1.315 | 0.06  | 1.660 | 2.183 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 8mm  | DSI4      | 507000 | 2535    | 23.04 | 24.20 | 1.306 | -0.02 | 0.569 | 0.743 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 0mm  | DSI1      | 507000 | 2535    | 19.52 | 20.70 | 1.312 | 0.04  | 1.920 | 2.519 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 0mm  | DSI1      | 502000 | 2510    | 19.49 | 20.70 | 1.321 | -0.16 | 1.710 | 2.259 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 0mm  | DSI1      | 512000 | 2560    | 19.40 | 20.70 | 1.349 | -0.07 | 1.830 | 2.469 |
|    | N7_Ant 2       | 20M  | QPSK | 100 | 0  | DFT-15 | Left Side   | 0mm  | DSI1      | 507000 | 2535    | 19.50 | 20.70 | 1.318 | 0.07  | 1.900 | 2.505 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 0mm  | DSI6/11   | 507000 | 2535    | 18.11 | 19.20 | 1.285 | 0.09  | 1.380 | 1.774 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 0mm  | DSI6/11   | 502000 | 2510    | 17.87 | 19.20 | 1.358 | 0.02  | 1.210 | 1.644 |
|    | N7_Ant 2       | 20M  | QPSK | 1   | 1  | DFT-15 | Left Side   | 0mm  | DSI6/11   | 512000 | 2560    | 17.80 | 19.20 | 1.380 | -0.05 | 1.270 | 1.753 |
|    | N7_Ant 2       | 20M  | QPSK | 50  | 28 | DFT-15 | Left Side   | 0mm  | DSI6/11   | 507000 | 2535    | 17.96 | 19.20 | 1.330 | -0.04 | 1.310 | 1.743 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 23.13 | 24.20 | 1.279 | -0.07 | 0.957 | 1.224 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 23.00 | 24.20 | 1.318 | 0.11  | 0.887 | 1.169 |
|    | N41(PC3)_Ant 3 | 100M | QPSK | 270 | 0  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 22.08 | 23.20 | 1.294 | -0.01 | 0.890 | 1.152 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.06  | 2.160 | 2.707 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 8mm  | DSI4      | 518598 | 2592.99 | 23.35 | 24.20 | 1.216 | 0.05  | 0.615 | 0.748 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | -0.17 | 2.130 | 2.744 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 8mm  | DSI4      | 518598 | 2592.99 | 22.93 | 24.20 | 1.340 | 0.05  | 0.621 | 0.832 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 270 | 0  | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.56 | 20.70 | 1.300 | -0.12 | 2.020 | 2.626 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.23 | 19.20 | 1.250 | 0.11  | 1.580 | 1.975 |
|    | N41(PC3)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.10 | 19.20 | 1.288 | -0.14 | 1.550 | 1.997 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 270 | 0  | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.04 | 19.20 | 1.306 | 0.03  | 1.570 | 2.051 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 0mm  | DSI4      | 518598 | 2592.99 | 25.58 | 27.20 | 1.452 | -0.09 | 0.653 | 0.948 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 25.58 | 27.20 | 1.452 | -0.07 | 0.957 | 1.390 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI2/7/12 | 518598 | 2592.99 | 15.81 | 17.20 | 1.377 | 0.16  | 0.743 | 1.023 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 8mm  | DSI4      | 518598 | 2592.99 | 25.58 | 27.20 | 1.452 | -0.06 | 0.088 | 0.128 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 0mm  | DSI4      | 518598 | 2592.99 | 24.82 | 26.20 | 1.374 | -0.13 | 0.721 | 0.991 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 24.82 | 26.20 | 1.374 | 0.11  | 0.887 | 1.219 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI2/7/12 | 518598 | 2592.99 | 15.76 | 17.20 | 1.393 | -0.12 | 0.698 | 0.972 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 270 | 0  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 23.52 | 25.20 | 1.472 | -0.01 | 0.890 | 1.310 |
|    | N41(PC2)_Ant 3 | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI2/7/12 | 518598 | 2592.99 | 15.64 | 17.20 | 1.432 | -0.1  | 0.711 | 1.018 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1      | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.05  | 1.210 | 1.516 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.72 | 20.70 | 1.253 | 0.06  | 2.160 | 2.707 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 12mm | DSI4      | 518598 | 2592.99 | 26.21 | 27.20 | 1.256 | 0.06  | 0.228 | 0.286 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 8mm  | DSI4      | 518598 | 2592.99 | 26.21 | 27.20 | 1.256 | -0.05 | 1.050 | 1.319 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1      | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | 0.04  | 1.230 | 1.585 |
| 99 | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.60 | 20.70 | 1.288 | -0.17 | 2.130 | 2.744 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 12mm | DSI4      | 518598 | 2592.99 | 26.21 | 27.20 | 1.256 | 0.01  | 0.237 | 0.298 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 8mm  | DSI4      | 518598 | 2592.99 | 26.21 | 27.20 | 1.256 | 0.08  | 1.060 | 1.331 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI1      | 518598 | 2592.99 | 19.56 | 20.70 | 1.300 | 0.03  | 1.130 | 1.469 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 270 | 0  | DFT-30 | Left Side   | 0mm  | DSI1      | 518598 | 2592.99 | 19.56 | 20.70 | 1.300 | -0.12 | 2.020 | 2.626 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.23 | 19.20 | 1.250 | 0.15  | 0.986 | 1.233 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 1   | 1  | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.23 | 19.20 | 1.250 | 0.11  | 1.580 | 1.975 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.10 | 19.20 | 1.288 | -0.15 | 0.956 | 1.232 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 135 | 69 | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.10 | 19.20 | 1.288 | -0.14 | 1.550 | 1.997 |
|    | N41(PC2)_Ant 2 | 100M | QPSK | 270 | 0  | DFT-30 | Left Side   | 0mm  | DSI6/11   | 518598 | 2592.99 | 18.04 | 19.20 | 1.306 | 0.03  | 1.570 | 2.051 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 0mm  | DSI4      | 518598 | 2592.99 | 25.16 | 26.20 | 1.271 | -0.05 | 1.090 | 1.385 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.41 | 18.70 | 1.346 | -0.16 | 0.546 | 0.735 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.41 | 18.70 | 1.346 | -0.17 | 0.937 | 1.261 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 12mm | DSI4      | 518598 | 2592.99 | 25.16 | 26.20 | 1.271 | 0.09  | 0.160 | 0.203 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 8mm  | DSI4      | 518598 | 2592.99 | 25.16 | 26.20 | 1.271 | 0.01  | 0.490 | 0.623 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 0mm  | DSI4      | 518598 | 2592.99 | 24.13 | 25.20 | 1.279 | 0.04  | 1.180 | 1.510 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.38 | 18.70 | 1.355 | 0.1   | 0.708 | 0.959 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.38 | 18.70 | 1.355 | 0.15  | 0.868 | 1.176 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 12mm | DSI4      | 518598 | 2592.99 | 24.13 | 25.20 | 1.279 | 0.06  | 0.165 | 0.211 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 8mm  | DSI4      | 518598 | 2592.99 | 24.13 | 25.20 | 1.279 | -0.02 | 0.481 | 0.615 |
|    | N41(PC2)_Ant 5 | 100M | QPSK | 270 | 0  | DFT-30 | Front       | 0mm  | DSI4/9/14 | 518598 | 2592.99 | 24.25 | 25.20 | 1.245 | 0.06  | 0.807 | 1.004 |



# FCC SAR TEST REPORT

Report No. : FA101920

|     |                    |      |      |     |    |        |             |      |           |        |         |       |       |       |       |       |       |
|-----|--------------------|------|------|-----|----|--------|-------------|------|-----------|--------|---------|-------|-------|-------|-------|-------|-------|
|     | N41(UL MIMO)_Ant 3 | 100M | QPSK | 1   | 1  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 23.13 | 24.20 | 1.279 | -0.07 | 0.957 | 1.224 |
|     | N41(UL MIMO)_Ant 3 | 100M | QPSK | 135 | 69 | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 23.00 | 24.20 | 1.318 | 0.11  | 0.887 | 1.169 |
|     | N41(UL MIMO)_Ant 3 | 100M | QPSK | 270 | 0  | DFT-30 | Bottom Side | 0mm  | DSI4      | 518598 | 2592.99 | 22.08 | 23.20 | 1.294 | -0.01 | 0.890 | 1.152 |
|     | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.41 | 18.70 | 1.346 | -0.17 | 0.937 | 1.261 |
|     | N41(UL MIMO)_Ant 5 | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 8mm  | DSI4      | 518598 | 2592.99 | 22.98 | 24.20 | 1.324 | 0.01  | 0.490 | 0.649 |
|     | N41(UL MIMO)_Ant 5 | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI1/6/11 | 518598 | 2592.99 | 17.38 | 18.70 | 1.355 | 0.15  | 0.868 | 1.176 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 0mm  | DSI4      | 633334 | 3500.01 | 25.87 | 26.70 | 1.211 | 0.03  | 1.440 | 1.743 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.17 | 1.450 | 1.788 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI1      | 633334 | 3500.01 | 18.79 | 19.70 | 1.233 | -0.05 | 1.980 | 2.442 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 12mm | DSI4      | 633334 | 3500.01 | 25.87 | 26.70 | 1.211 | 0.06  | 0.135 | 0.163 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 8mm  | DSI4      | 633334 | 3500.01 | 25.87 | 26.70 | 1.211 | 0.02  | 0.410 | 0.496 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 0mm  | DSI4      | 633334 | 3500.01 | 25.80 | 26.70 | 1.230 | 0.03  | 1.470 | 1.808 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | -0.17 | 1.460 | 1.809 |
| 101 | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI1      | 633334 | 3500.01 | 18.77 | 19.70 | 1.239 | -0.05 | 2.170 | 2.688 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 12mm | DSI4      | 633334 | 3500.01 | 25.80 | 26.70 | 1.230 | 0.03  | 0.131 | 0.161 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 8mm  | DSI4      | 633334 | 3500.01 | 25.80 | 26.70 | 1.230 | -0.08 | 0.339 | 0.417 |
|     | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Front       | 0mm  | DSI4      | 633334 | 3500.01 | 25.28 | 25.70 | 1.102 | 0.03  | 1.420 | 1.564 |
|     | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 18.67 | 19.70 | 1.268 | -0.17 | 1.510 | 1.914 |
|     | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Top Side    | 0mm  | DSI1      | 633334 | 3500.01 | 18.67 | 19.70 | 1.268 | 0.07  | 1.920 | 2.434 |
|     | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 12mm | DSI4      | 633334 | 3500.01 | 25.28 | 25.70 | 1.102 | 0.05  | 0.123 | 0.135 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI6/11   | 633334 | 3500.01 | 17.34 | 18.20 | 1.219 | -0.19 | 0.967 | 1.179 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI6/11   | 633334 | 3500.01 | 17.34 | 18.20 | 1.219 | -0.11 | 1.460 | 1.780 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI6/11   | 633334 | 3500.01 | 17.29 | 18.20 | 1.233 | 0.1   | 0.956 | 1.179 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI6/11   | 633334 | 3500.01 | 17.29 | 18.20 | 1.233 | -0.02 | 1.440 | 1.776 |
|     | N77_Ant 5          | 100M | QPSK | 270 | 0  | DFT-30 | Top Side    | 0mm  | DSI6/11   | 633334 | 3500.01 | 17.18 | 18.20 | 1.265 | 0.06  | 1.390 | 1.758 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Front       | 0mm  | DSI4      | 656000 | 3840    | 25.61 | 26.70 | 1.285 | 0.06  | 1.430 | 1.838 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1      | 656000 | 3840    | 18.59 | 19.70 | 1.291 | 0.01  | 1.070 | 1.382 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI1      | 656000 | 3840    | 18.59 | 19.70 | 1.291 | -0.07 | 1.130 | 1.459 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 12mm | DSI4      | 656000 | 3840    | 25.61 | 26.70 | 1.285 | -0.14 | 0.182 | 0.234 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 8mm  | DSI4      | 656000 | 3840    | 25.61 | 26.70 | 1.285 | -0.08 | 0.231 | 0.297 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Front       | 0mm  | DSI4      | 656000 | 3840    | 25.11 | 26.70 | 1.442 | 0.08  | 1.290 | 1.860 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1      | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.01  | 0.925 | 1.197 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI1      | 656000 | 3840    | 18.58 | 19.70 | 1.294 | 0.16  | 0.982 | 1.271 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI6/11   | 656000 | 3840    | 17.11 | 18.20 | 1.285 | -0.01 | 0.810 | 1.041 |
|     | N77_Ant 5          | 100M | QPSK | 1   | 1  | DFT-30 | Top Side    | 0mm  | DSI6/11   | 656000 | 3840    | 17.11 | 18.20 | 1.285 | -0.13 | 0.829 | 1.066 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI6/11   | 656000 | 3840    | 17.06 | 18.20 | 1.300 | -0.07 | 0.803 | 1.044 |
|     | N77_Ant 5          | 100M | QPSK | 135 | 69 | DFT-30 | Top Side    | 0mm  | DSI6/11   | 656000 | 3840    | 17.06 | 18.20 | 1.300 | -0.01 | 0.813 | 1.057 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 16.65 | 17.70 | 1.274 | -0.05 | 1.180 | 1.503 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 12mm | DSI4      | 633334 | 3500.01 | 24.91 | 26.20 | 1.346 | 0.06  | 0.290 | 0.390 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 16.60 | 17.70 | 1.288 | 0.12  | 1.930 | 2.486 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 12mm | DSI4      | 633334 | 3500.01 | 24.84 | 26.20 | 1.368 | 0.03  | 0.250 | 0.342 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI1      | 633334 | 3500.01 | 16.55 | 17.70 | 1.303 | 0.01  | 1.800 | 2.346 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI6/11   | 633334 | 3500.01 | 15.13 | 16.20 | 1.279 | 0.06  | 1.100 | 1.407 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI6/11   | 633334 | 3500.01 | 15.08 | 16.20 | 1.294 | -0.11 | 0.915 | 1.184 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI6/11   | 633334 | 3500.01 | 15.05 | 16.20 | 1.303 | 0.04  | 1.030 | 1.342 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI1      | 656000 | 3840    | 16.75 | 17.70 | 1.245 | 0.09  | 1.730 | 2.153 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 12mm | DSI4      | 656000 | 3840    | 25.10 | 26.20 | 1.288 | 0.02  | 0.478 | 0.616 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI1      | 656000 | 3840    | 16.70 | 17.70 | 1.259 | 0.17  | 1.350 | 1.700 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI1      | 656000 | 3840    | 16.68 | 17.70 | 1.265 | -0.04 | 1.520 | 1.922 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 1   | 1  | DFT-30 | Back        | 0mm  | DSI6/11   | 656000 | 3840    | 15.26 | 16.20 | 1.242 | 0.01  | 1.020 | 1.266 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 135 | 69 | DFT-30 | Back        | 0mm  | DSI6/11   | 656000 | 3840    | 15.23 | 16.20 | 1.250 | 0.04  | 0.933 | 1.166 |
|     | N77(PC2)_Ant 10    | 100M | QPSK | 270 | 0  | DFT-30 | Back        | 0mm  | DSI6/11   | 656000 | 3840    | 15.19 | 16.20 | 1.262 | 0.07  | 1.060 | 1.338 |

**<WLAN2.4G SAR>**

| 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 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------|---------------|---------------|----------|---------|------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 102      | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Standalone(Full) | 6   | 2437        | 20.56               | 22.00               | 1.393                  | 100          | 1.000                     | -0.16            | 1.580                   | <b>2.201</b>            |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Standalone(Full) | 1   | 2412        | 20.46               | 22.00               | 1.426                  | 100          | 1.000                     | -0.1             | 1.400                   | 1.996                   |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Standalone(Full) | 11  | 2462        | 20.41               | 22.00               | 1.442                  | 100          | 1.000                     | -0.09            | 1.450                   | 2.091                   |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Simultaneous     | 6   | 2437        | 17.11               | 18.50               | 1.377                  | 100          | 1.000                     | 0.02             | 0.754                   | 1.038                   |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Simultaneous     | 1   | 2412        | 16.96               | 18.50               | 1.426                  | 100          | 1.000                     | -0.03            | 0.695                   | 0.991                   |
|          | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 0mm      | Ant 4+6 | Simultaneous     | 11  | 2462        | 17.01               | 18.50               | 1.409                  | 100          | 1.000                     | 0.05             | 0.698                   | 0.984                   |

**<WLAN5G SAR>**

| 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 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | 0.12             | 0.523                   | 0.777                   |
| 103      | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.11            | 0.826                   | <b>1.227</b>            |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Left Side     | 0mm      | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.19            | 0.235                   | 0.349                   |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | -0.08            | 0.135                   | 0.201                   |
|          | WLAN5.2GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 13+9 | Full            | 42  | 5210        | 20.28               | 22.00               | 1.486                  | 100          | 1.000                     | 0.06             | 0.311                   | 0.462                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 0mm      | Ant 13+9 | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | 0.12             | 0.580                   | 0.812                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 13+9 | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | -0.11            | 0.903                   | 1.264                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Side     | 0mm      | Ant 13+9 | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | -0.19            | 0.322                   | 0.451                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 13+9 | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | -0.08            | 0.157                   | 0.220                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Top Side      | 0mm      | Ant 13+9 | Full            | 54  | 5270        | 20.54               | 22.00               | 1.400                  | 100          | 1.000                     | 0.06             | 0.371                   | 0.519                   |
| 104      | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 13+9 | Full            | 62  | 5310        | 19.54               | 21.00               | 1.400                  | 100          | 1.000                     | 0.06             | 0.909                   | <b>1.272</b>            |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 13+9 | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | 0.12             | 0.522                   | 0.751                   |
| 105      | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 13+9 | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | -0.11            | 1.040                   | <b>1.496</b>            |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 0mm      | Ant 13+9 | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | -0.19            | 0.306                   | 0.440                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 13+9 | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | -0.08            | 0.143                   | 0.206                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 13+9 | Full            | 122 | 5610        | 20.42               | 22.00               | 1.439                  | 100          | 1.000                     | 0.06             | 0.263                   | 0.378                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 13+9 | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.06             | 0.466                   | 0.660                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 13+9 | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.01             | 0.685                   | 0.970                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 0mm      | Ant 13+9 | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | -0.14            | 0.298                   | 0.422                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 13+9 | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.05             | 0.142                   | 0.201                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 13+9 | Full            | 106 | 5530        | 20.49               | 22.00               | 1.416                  | 100          | 1.000                     | 0.07             | 0.259                   | 0.367                   |

**18.5 Repeated SAR Measurement**
**<1g>**

| No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | 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 66_ANT 5 | 20M      | QPSK       | 1       | 0         | -      | Right Tilted  | 0mm      | DSI5        | 132322 | 1745        | 16.15               | 16.80               | 1.161                  | -            | -                         | 0.01             | 0.995                  | 1     | 1.156                  |
| 2nd | LTE Band 66_ANT 5 | 20M      | QPSK       | 1       | 0         | -      | Right Tilted  | 0mm      | DSI5        | 132322 | 1745        | 16.15               | 16.80               | 1.161                  | -            | -                         | 0.06             | 0.970                  | 1.026 | 1.127                  |
| 1st | LTE Band 25_ANT 2 | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 26590  | 1905        | 18.82               | 19.80               | 1.253                  | -            | -                         | 0.15             | 0.913                  | 1     | 1.144                  |
| 2nd | LTE Band 25_ANT 2 | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 26590  | 1905        | 18.82               | 19.80               | 1.253                  | -            | -                         | 0.09             | 0.901                  | 1.013 | 1.129                  |
| 1st | LTE Band 30_ANT 2 | 10M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 27710  | 2310        | 21.20               | 22.00               | 1.202                  | -            | -                         | 0.17             | 0.920                  | 1     | 1.106                  |
| 2nd | LTE Band 30_ANT 2 | 10M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 27710  | 2310        | 21.20               | 22.00               | 1.202                  | -            | -                         | 0.05             | 0.910                  | 1.011 | 1.094                  |
| 1st | LTE Band 7_ANT 2  | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 21100  | 2535        | 20.10               | 21.00               | 1.230                  | -            | -                         | 0.09             | 0.909                  | 1     | 1.118                  |
| 2nd | LTE Band 7_ANT 2  | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 21100  | 2535        | 20.10               | 21.00               | 1.230                  | -            | -                         | 0.01             | 0.902                  | 1.133 | 1.110                  |
| 1st | LTE Band 48_ANT 5 | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 55830  | 3609        | 16.99               | 17.50               | 1.125                  | 62.9         | 1.006                     | 0.1              | 1.020                  | 1     | 1.154                  |
| 2nd | LTE Band 48_ANT 5 | 20M      | QPSK       | 1       | 0         | -      | Right Cheek   | 0mm      | DSI5        | 55830  | 3609        | 16.99               | 17.50               | 1.125                  | 62.9         | 1.006                     | 0.15             | 0.997                  | 1.023 | 1.128                  |
| 1st | N5_Ant 0          | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -            | -                         | -0.09            | 0.886                  | 1     | 1.128                  |
| 2nd | N5_Ant 0          | 20M      | QPSK       | 1       | 1         | DFT-15 | Left Cheek    | 0mm      | DSI5        | 167300 | 836.5       | 23.15               | 24.20               | 1.274                  | -            | -                         | 0.02             | 0.863                  | 1.027 | 1.099                  |

**<10g>**

| No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | 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 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|--------------------|----------|------------|---------|-----------|--------|---------------|----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | LTE Band 66_ANT 5  | 20M      | QPSK       | 1       | 0         | -      | Top Side      | 0mm      | DSI1        | 132072 | 1720        | 21.18               | 21.80               | 1.153                  | -            | -                         | 0.03             | 2.180                   | 1     | 2.515                   |
| 2nd | LTE Band 66_ANT 5  | 20M      | QPSK       | 1       | 0         | -      | Top Side      | 0mm      | DSI1        | 132072 | 1720        | 21.18               | 21.80               | 1.153                  | -            | -                         | 0.03             | 2.110                   | 1.033 | 2.434                   |
| 1st | LTE Band 48_ANT 10 | 20M      | QPSK       | 50      | 0         | -      | Back          | 0mm      | DSI1        | 56150  | 3641        | 19.68               | 20.30               | 1.153                  | 62.9         | 1.006                     | 0.04             | 2.360                   | 1     | 2.738                   |
| 2nd | LTE Band 48_ANT 10 | 20M      | QPSK       | 50      | 0         | -      | Back          | 0mm      | DSI1        | 56150  | 3641        | 19.68               | 20.30               | 1.153                  | 62.9         | 1.006                     | 0.04             | 2.310                   | 1.022 | 2.680                   |
| 1st | N41(PC2)_Ant 2     | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 0mm      | DSI1        | 518598 | 2592.99     | 19.72               | 20.70               | 1.253                  | -            | -                         | 0.06             | 2.160                   | 1     | 2.707                   |
| 2nd | N41(PC2)_Ant 2     | 100M     | QPSK       | 1       | 1         | DFT-30 | Left Side     | 0mm      | DSI1        | 518598 | 2592.99     | 19.72               | 20.70               | 1.253                  | -            | -                         | 0.03             | 2.120                   | 1.019 | 2.657                   |
| 1st | N77_Ant 5          | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 0mm      | DSI1        | 633334 | 3500.01     | 18.77               | 19.70               | 1.239                  | -            | -                         | -0.05            | 2.170                   | 1     | 2.688                   |
| 2nd | N77_Ant 5          | 100M     | QPSK       | 135     | 69        | DFT-30 | Top Side      | 0mm      | DSI1        | 633334 | 3500.01     | 18.77               | 19.70               | 1.239                  | -            | -                         | -0.05            | 2.130                   | 1.019 | 2.639                   |

**General Note:**

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45$ W/kg, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## 19. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations | Portable Handset |           |         |                          |
|-----|------------------------------------------|------------------|-----------|---------|--------------------------|
|     |                                          | Head             | Body-worn | Hotspot | Product specific 10g SAR |
| 1.  | WWAN + WLAN2.4GHz                        | Yes              | Yes       | Yes     | Yes                      |
| 2.  | WWAN + WLAN5GHz                          | Yes              | Yes       | Yes     | Yes                      |
| 3.  | WWAN + Bluetooth                         | Yes              | Yes       | Yes     | Yes                      |
| 4.  | WLAN 5GHz + Bluetooth                    | Yes              | Yes       | Yes     | Yes                      |
| 5.  | WWAN + WLAN5GHz + Bluetooth              | Yes              | Yes       | Yes     | Yes                      |
| 6.  | WLAN2.4GHz + WLAN5GHz                    | Yes              | Yes       | Yes     | Yes                      |
| 7.  | WWAN + WLAN2.4GHz + WLAN5GHz             | Yes              | Yes       | Yes     | Yes                      |
| 8.  | WLAN2.4GHz + Bluetooth                   | Yes              | Yes       | Yes     | Yes                      |
| 9.  | WWAN + WLAN2.4GHz + Bluetooth            | Yes              | Yes       | Yes     | Yes                      |
| 10. | WLAN2.4GHz + WLAN5GHz + Bluetooth        | Yes              | Yes       | Yes     | Yes                      |
| 11. | WWAN+ WLAN2.4GHz + WLAN5GHz + Bluetooth  | Yes              | Yes       | Yes     | Yes                      |

**General Note:**

- This device supports VoIP in GPRS, EGPRS, WCDMA, and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WWAN above includes 5G NR bands.
- For WLAN2.4GHz and WLAN5GHz support SISO and MIMO mode.
- WLAN2.4GHz/WLAN5GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
- 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 FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- WLAN2.4GHz and Bluetooth share the same antenna, and cannot transmit simultaneously.
- WLAN2.4GHz and Bluetooth are located on different antennas, they can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can transmit simultaneously.
- For simultaneously analysis, since the SAR summation of 4 transmitters can cover others combination of 2 and 3 transmitters, therefore in this section did not additional to evaluate 2TX and 3TX combination of simultaneously transmission.
- Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- WWAN antenna always chose the worst position SAR among all WWAN bands base on head, hotspot, body and extremity to do co-located with WLAN/Bluetooth. It is the most conservatively evaluation.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$ , 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.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

### **19.1 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. 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

Above analysis is also apply to LTE inter band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter band CA uplink no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

**19.2 Head Exposure Conditions**

| WWAN Band      | Exposure Position | 1             | 5                   | 8                  | 9               | 10              | 1+5+8+9       | 1+5+8+10      |
|----------------|-------------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                |                   | WWAN          | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| All WWAN Bands | Right Cheek       | 0.989         | 0.085               | 0.132              | 0.101           | 0.106           | 1.31          | 1.31          |
|                | Right Tilted      | 0.989         | 0.100               | 0.119              | 0.078           | 0.036           | 1.29          | 1.24          |
|                | Left Cheek        | 0.989         | 0.172               | 0.184              | 0.154           | 0.170           | 1.50          | <b>1.52</b>   |
|                | Left Tilted       | 0.989         | 0.149               | 0.178              | 0.152           | 0.057           | 1.47          | 1.37          |

**<5G NR UL MIMO>**

| WWAN Band          |                    | Exposure Position | 1             | 2             | 5                   | 8                  | 9               | 10              | 1+2+5+8+9     | 1+2+5+8+10    |
|--------------------|--------------------|-------------------|---------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                    |                    |                   | FR1           | FR1           | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| N41(UL MIMO)_Ant 3 | N41(UL MIMO)_Ant 5 | Right Cheek       | 0.213         | 0.651         | 0.085               | 0.132              | 0.101           | 0.106           | 1.18          | 1.19          |
|                    |                    | Right Tilted      | 0.088         | 0.674         | 0.100               | 0.119              | 0.078           | 0.036           | 1.06          | 1.02          |
|                    |                    | Left Cheek        | 0.118         | 0.373         | 0.172               | 0.184              | 0.154           | 0.170           | 1.00          | 1.02          |
|                    |                    | Left Tilted       | 0.046         | 0.505         | 0.149               | 0.178              | 0.152           | 0.057           | 1.03          | 0.94          |

### 19.3 Hotspot Exposure Conditions

| WWAN Band      | Exposure Position | 1             | 5                   | 8                  | 9               | 10              | 1+5+8+9       | 1+5+8+10      |
|----------------|-------------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                |                   | WWAN          | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| All WWAN Bands | Front             | 0.796         | 0.096               | 0.177              | 0.038           | 0.062           | 1.11          | 1.13          |
|                | Back              | 0.796         | 0.175               | 0.420              | 0.044           | 0.107           | 1.44          | 1.50          |
|                | Left side         | 0.796         | 0.003               | 0.269              |                 | 0.106           | 1.07          | 1.17          |
|                | Right side        | 0.796         | 0.322               | 0.122              | 0.056           | 0.175           | 1.30          | 1.42          |
|                | Top side          | 0.796         | 0.086               | 0.131              | 0.082           | 0.014           | 1.10          | 1.03          |
|                | Bottom side       | 0.796         |                     |                    |                 |                 | 0.80          | 0.80          |

#### <5G NR UL MIMO>

| WWAN Band          |                    | Exposure Position | 1             | 2             | 5                   | 8                  | 9               | 10              | 1+2+5+8+9     | 1+2+5+8+10    |
|--------------------|--------------------|-------------------|---------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                    |                    |                   | FR1           | FR1           | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| N41(UL MIMO)_Ant 3 | N41(UL MIMO)_Ant 5 | Front             | 0.242         | 0.083         | 0.096               | 0.177              | 0.038           | 0.062           | 0.64          | 0.66          |
|                    |                    | Back              | 0.238         | 0.098         | 0.175               | 0.420              | 0.044           | 0.107           | 0.98          | 1.04          |
|                    |                    | Left side         | 0.110         | 0.025         | 0.003               | 0.269              |                 | 0.106           | 0.41          | 0.51          |
|                    |                    | Right side        | 0.041         | 0.020         | 0.322               | 0.122              | 0.056           | 0.175           | 0.56          | 0.68          |
|                    |                    | Top side          |               | 0.275         | 0.086               | 0.131              | 0.082           | 0.014           | 0.57          | 0.51          |
|                    |                    | Bottom side       | 0.402         |               |                     |                    |                 |                 | 0.40          | 0.40          |

**19.4 Body-Worn Accessory Exposure Conditions**

| WWAN Band      | Exposure Position | 1             | 5                   | 8                  | 9               | 10              | 1+5+8+9       | 1+5+8+10      |
|----------------|-------------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                |                   | WWAN          | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| All WWAN Bands | Front             | 0.764         | 0.142               | 0.171              | 0.021           | 0.023           | 1.10          | 1.10          |
|                | Back              | 0.764         | 0.346               | 0.321              | 0.025           | 0.048           | 1.46          | 1.48          |

**<5G NR UL MIMO>**

| WWAN Band          |                    | Exposure Position | 1             | 2             | 5                   | 8                  | 9               | 10              | 1+2+5+8+9     | 1+2+5+8+10    |
|--------------------|--------------------|-------------------|---------------|---------------|---------------------|--------------------|-----------------|-----------------|---------------|---------------|
|                    |                    |                   | FR1           | FR1           | 2.4GHz WLAN Ant 4+6 | 5GHz WLAN Ant 13+9 | Bluetooth Ant 4 | Bluetooth Ant 6 | 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) |
| N41(UL MIMO)_Ant 3 | N41(UL MIMO)_Ant 5 | Front             | 0.179         | 0.233         | 0.142               | 0.171              | 0.021           | 0.023           | 0.75          | 0.75          |
|                    |                    | Back              | 0.183         | 0.352         | 0.346               | 0.321              | 0.025           | 0.048           | 1.23          | 1.25          |

**19.5 Product Specific Exposure Conditions**

| WWAN Band      | Exposure Position | 1                 | 4                      | 7                     | 1+4+7          |
|----------------|-------------------|-------------------|------------------------|-----------------------|----------------|
|                |                   | WWAN              | 2.4GHz WLAN<br>Ant 4+6 | 5GHz WLAN<br>Ant 13+9 | Summed         |
|                |                   | 10g SAR<br>(W/kg) | 10g SAR<br>(W/kg)      | 10g SAR<br>(W/kg)     | 10g SAR (W/kg) |
| All WWAN Bands | Front             | 1.860             |                        | 0.812                 | 2.67           |
|                | Back              | 1.991             |                        | 1.496                 | <b>3.49</b>    |
|                | Left side         | 1.997             |                        | 0.451                 | 2.45           |
|                | Right side        |                   | 1.038                  | 0.220                 | 1.26           |
|                | Top side          | 1.780             |                        | 0.519                 | 2.30           |
|                | Bottom side       | 1.998             |                        |                       | 2.00           |

**<5G NR UL MIMO>**

| WWAN Band             |                       | Exposure Position | 1                 | 2                 | 4                      | 7                     | 1+2+4+7        |
|-----------------------|-----------------------|-------------------|-------------------|-------------------|------------------------|-----------------------|----------------|
|                       |                       |                   | FR1               | FR1               | 2.4GHz WLAN<br>Ant 4+6 | 5GHz WLAN<br>Ant 13+9 | Summed         |
|                       |                       |                   | 10g SAR<br>(W/kg) | 10g SAR<br>(W/kg) | 10g SAR<br>(W/kg)      | 10g SAR<br>(W/kg)     | 10g SAR (W/kg) |
| N41(UL<br>MIMO)_Ant 3 | N41(UL<br>MIMO)_Ant 5 | Front             |                   |                   |                        | 0.812                 | 0.81           |
|                       |                       | Back              |                   |                   |                        | 1.496                 | 1.50           |
|                       |                       | Left side         |                   |                   |                        | 0.451                 | 0.45           |
|                       |                       | Right side        |                   |                   | 1.038                  | 0.220                 | 1.26           |
|                       |                       | Top side          |                   | 1.261             |                        | 0.519                 | 1.78           |
|                       |                       | Bottom side       | 1.224             |                   |                        |                       | 1.22           |

**Test Engineer :** Changlin Huang, Bin He, Mengming Dai



## **20. 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 and the measured 10-g SAR within a frequency band is  $< 3.75$  W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , 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 and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **21. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [14] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015

-----THE END-----



## ***Appendix A. Plots of System Performance Check***

The plots are shown as follows.

## System Check\_Head\_750MHz

**DUT: D750V3-SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_211110 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 41.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.79, 9.79, 9.79); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.80 W/kg

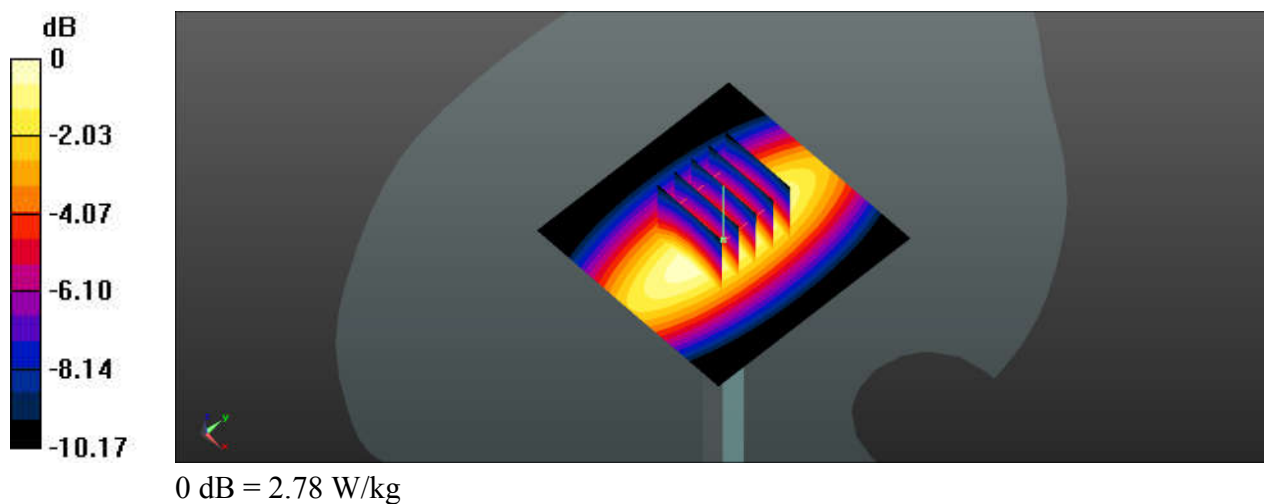
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.38 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.17 W/kg

**SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.39 W/kg**

Maximum value of SAR (measured) = 2.78 W/kg



## System Check\_Head\_750MHz

**DUT: D750V3-SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_211114 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.881$  S/m;  $\epsilon_r = 41.529$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.47, 10.47, 10.47); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 2.66 W/kg

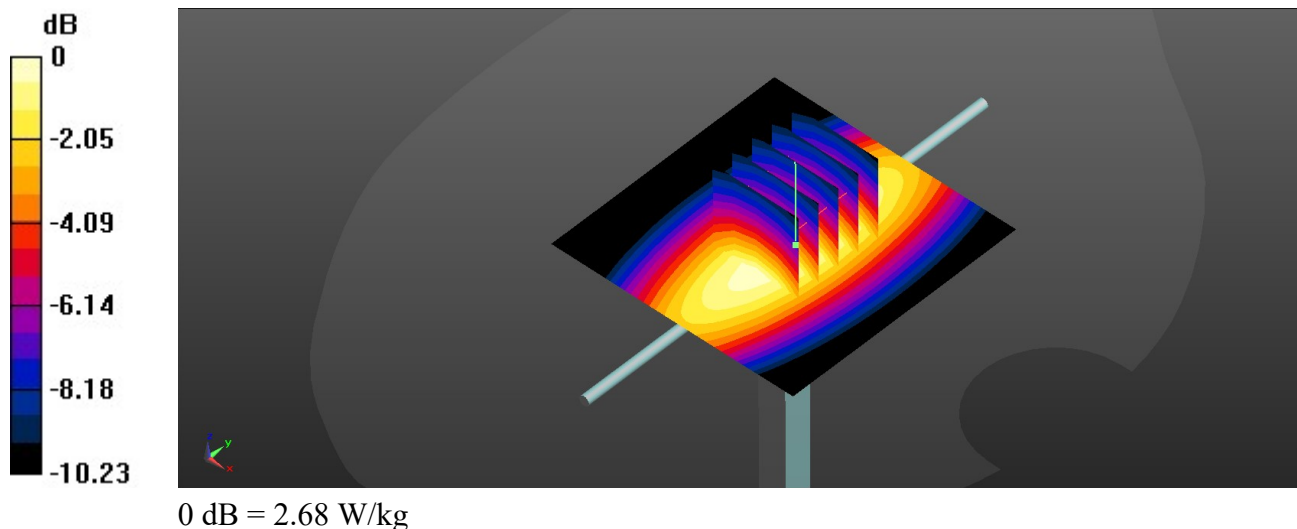
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 56.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.05 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.35 W/kg**

Maximum value of SAR (measured) = 2.68 W/kg



## System Check\_Head\_750MHz

**DUT: D750V3-SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_211120 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.879$  S/m;  $\epsilon_r = 40.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

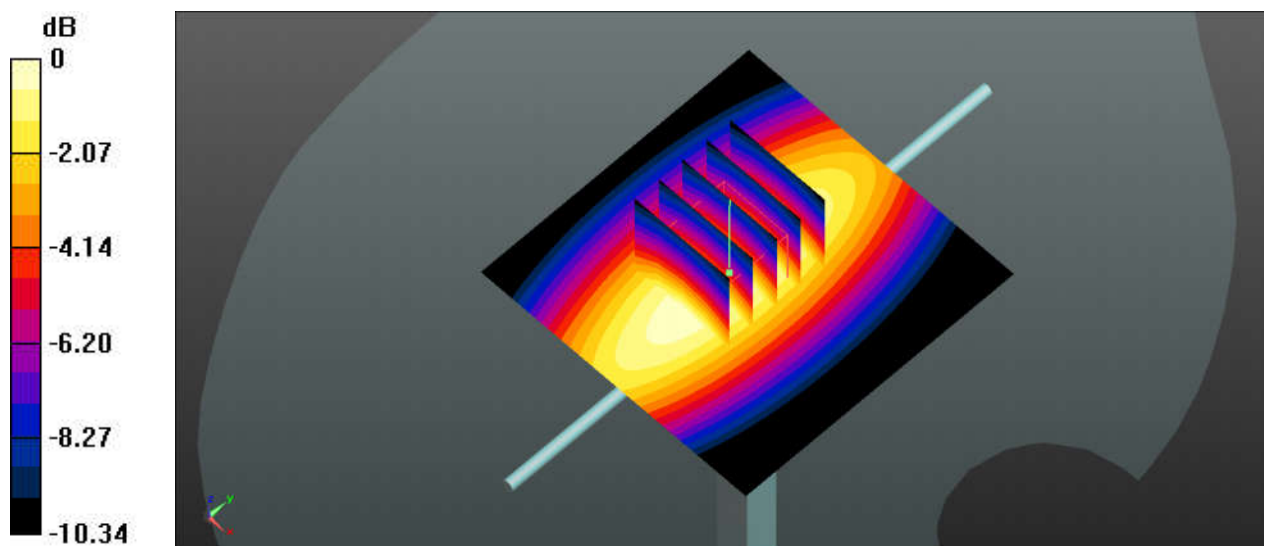
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.74, 6.74, 6.74); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.30 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 52.60 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 2.88 W/kg  
**SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.31 W/kg**  
Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.30 W/kg

## System Check\_Head\_750MHz

### DUT: D750V3-SN:1087

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_211127 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 40.877$ ;  $\rho = 1000$  kg/m<sup>3</sup>

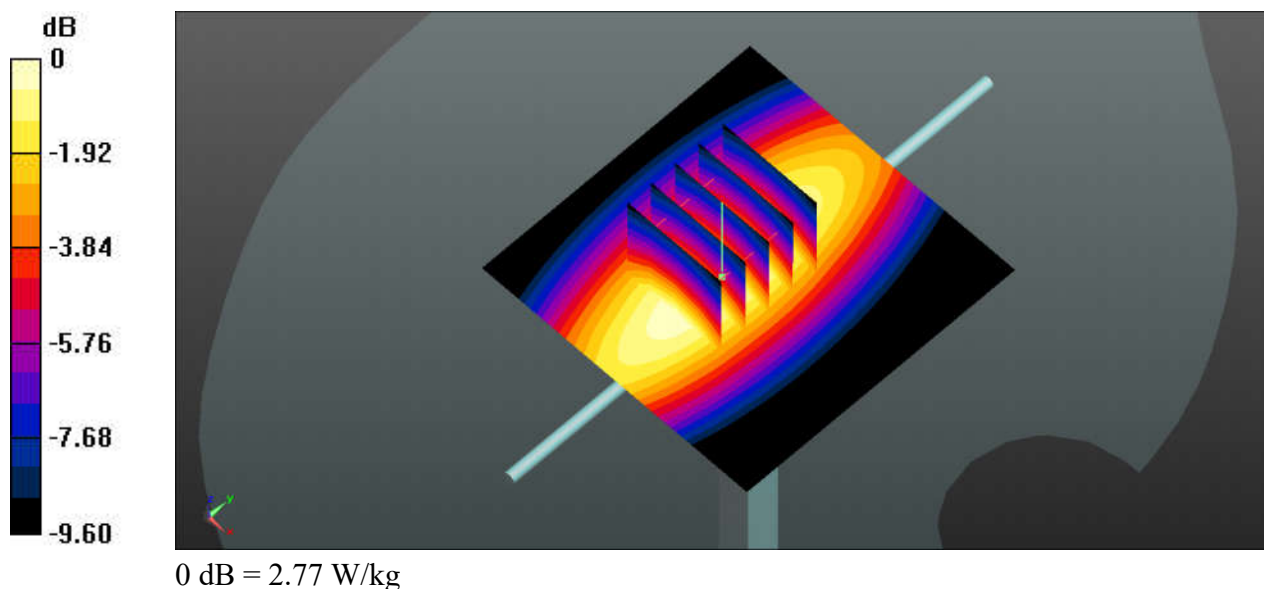
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.74, 6.74, 6.74); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.77 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 57.90 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 3.07 W/kg  
**SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.46 W/kg**  
Maximum value of SAR (measured) = 2.79 W/kg



## System Check\_Head\_835MHz

### DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_211107 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 40.749$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.57, 9.57, 9.57); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.28 W/kg

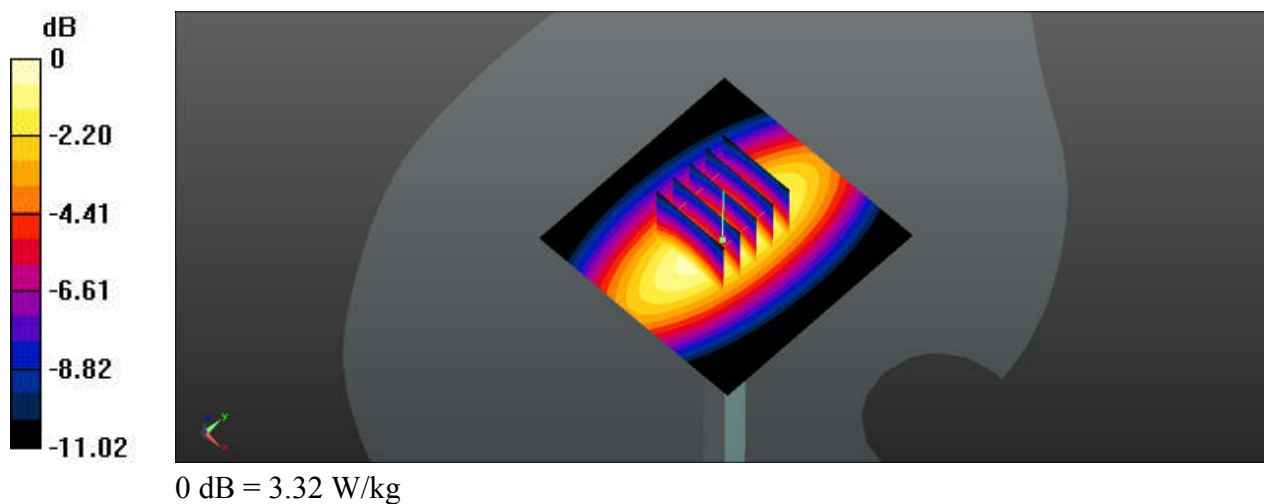
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 62.55 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.80 W/kg

**SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.59 W/kg**

Maximum value of SAR (measured) = 3.32 W/kg



## System Check\_Head\_835MHz

**DUT: D835V2-SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_211115 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.804$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(10.19, 10.19, 10.19); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 3.04 W/kg

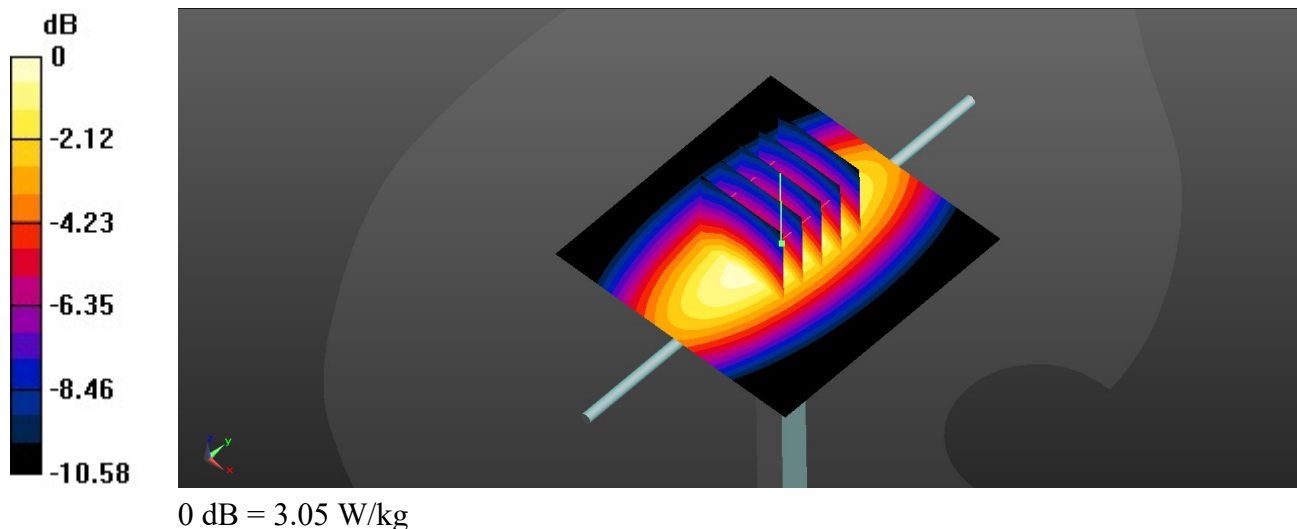
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 61.04 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.47 W/kg

**SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.51 W/kg**

Maximum value of SAR (measured) = 3.05 W/kg



## System Check\_Head\_835MHz

### DUT: D835V2-SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_211120 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.911$  S/m;  $\epsilon_r = 43.132$ ;  $\rho = 1000$  kg/m<sup>3</sup>

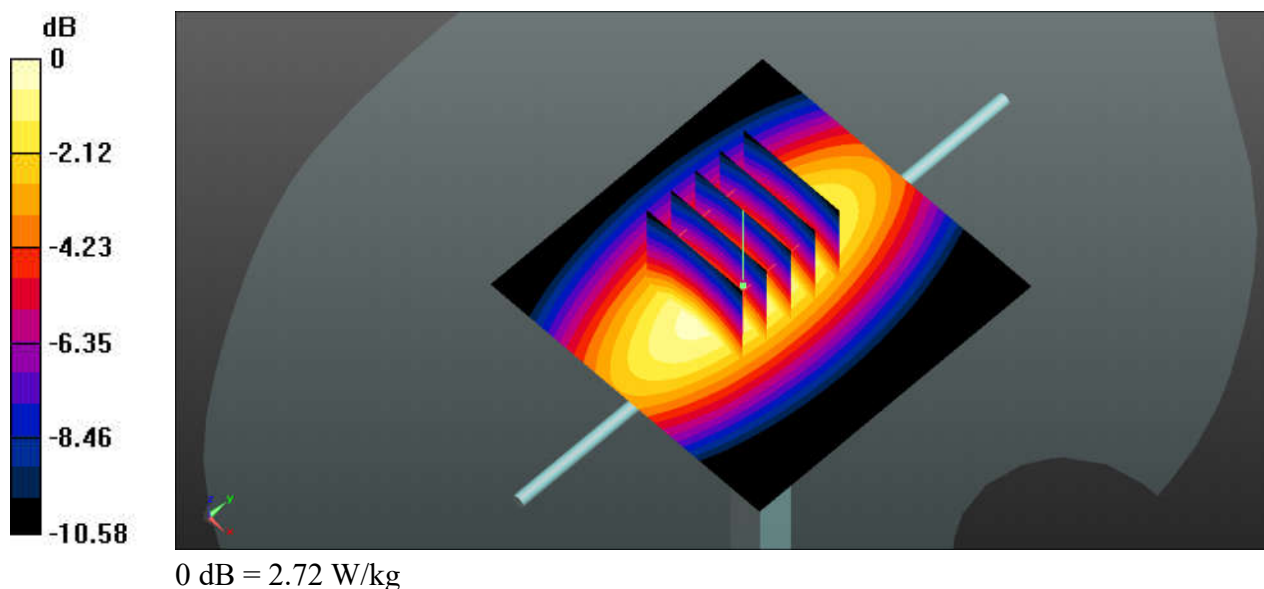
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.57, 6.57, 6.57); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.72 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 55.30 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 3.46 W/kg  
**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.52 W/kg**  
Maximum value of SAR (measured) = 2.73 W/kg



## System Check\_Head\_835MHz

**DUT: D835V2-SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_211201 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 42.591$ ;  $\rho = 1000$  kg/m<sup>3</sup>

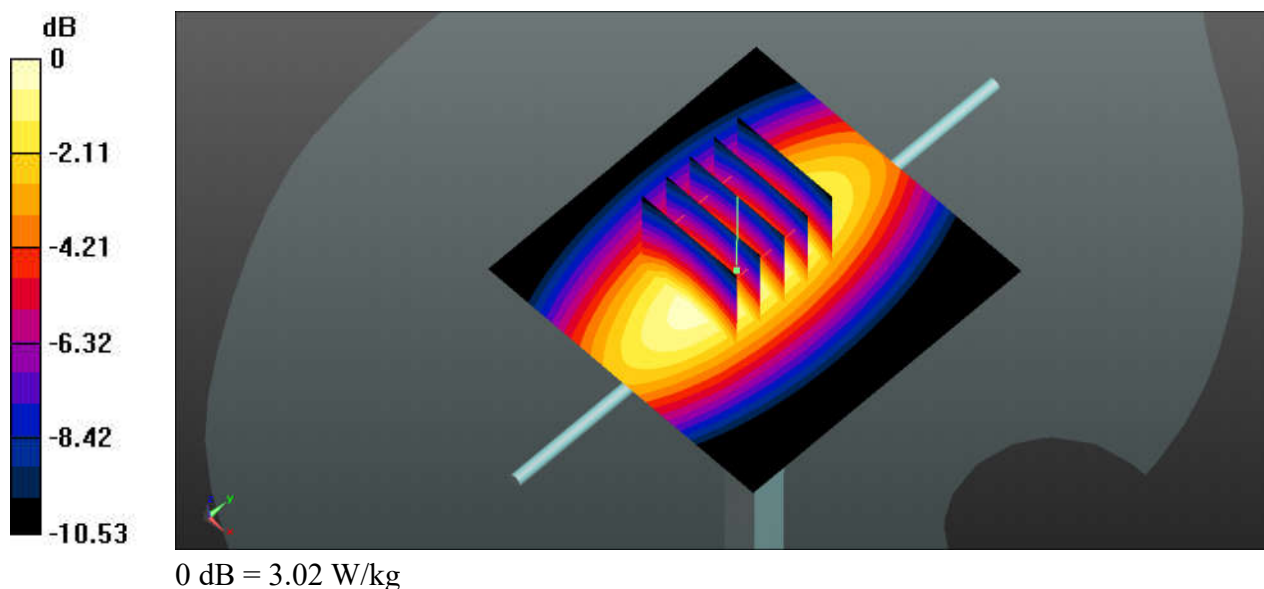
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(6.57, 6.57, 6.57); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 3.02 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 59.22 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 3.54 W/kg  
**SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.59 W/kg**  
Maximum value of SAR (measured) = 3.05 W/kg



## System Check\_Head\_1750MHz

**DUT: D1750V2-SN:1137**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_211116 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 41.417$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.53, 8.53, 8.53); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

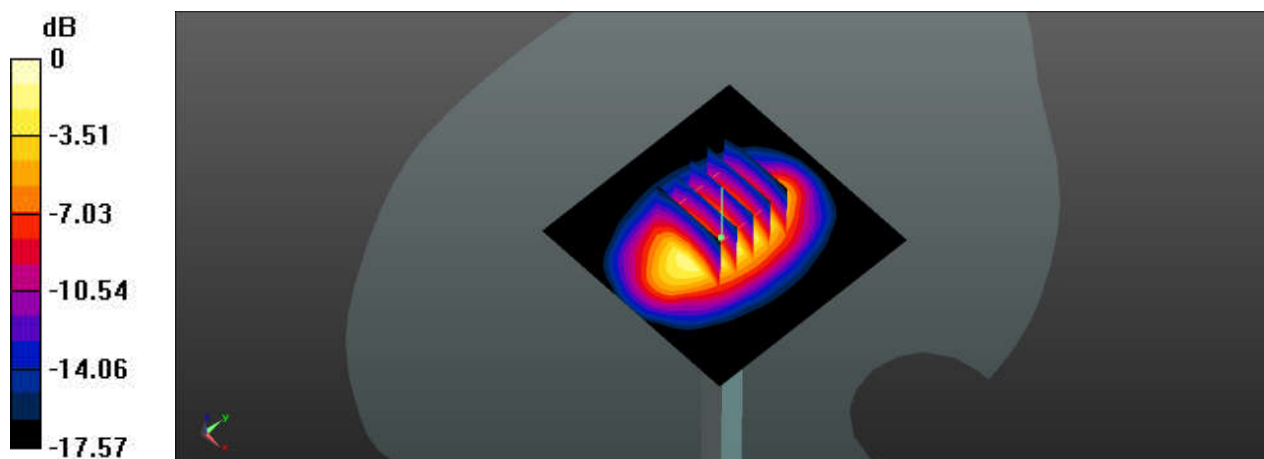
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 104.0 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.79 W/kg**

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg

## System Check\_Head\_1750MHz

**DUT: D1750V2-SN:1137**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_211120 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.392$  S/m;  $\epsilon_r = 40.573$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.73, 8.73, 8.73); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 14.3 W/kg

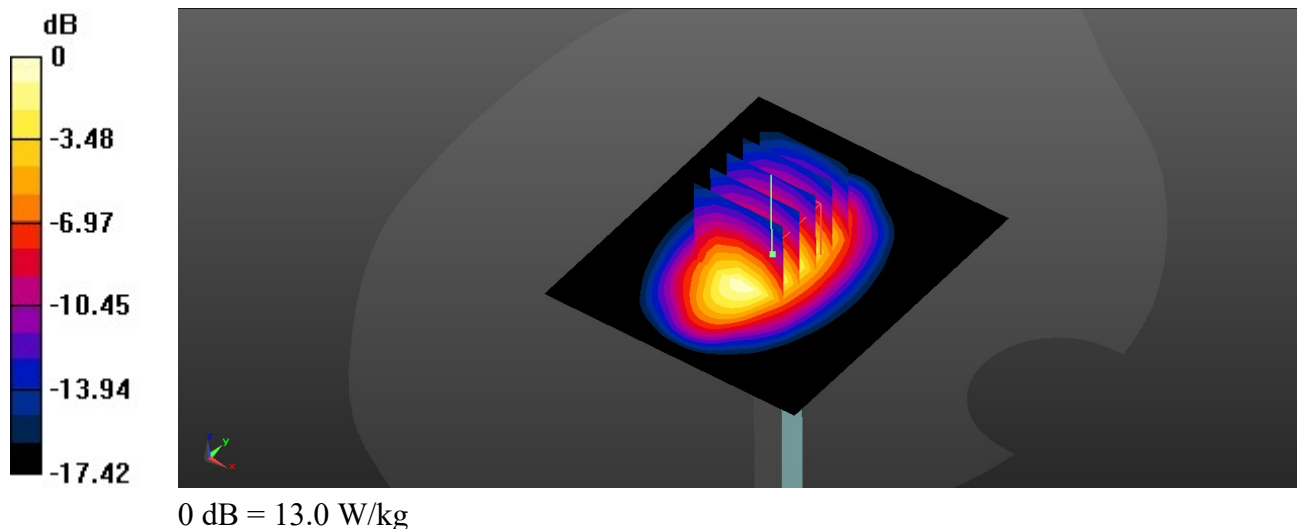
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 104.8 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 8.86 W/kg; SAR(10 g) = 4.78 W/kg**

Maximum value of SAR (measured) = 13.0 W/kg



## System Check\_Head\_1750MHz

**DUT: D1750V2-SN:1137**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_211121 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.313$  S/m;  $\epsilon_r = 38.588$ ;  $\rho = 1000$  kg/m<sup>3</sup>

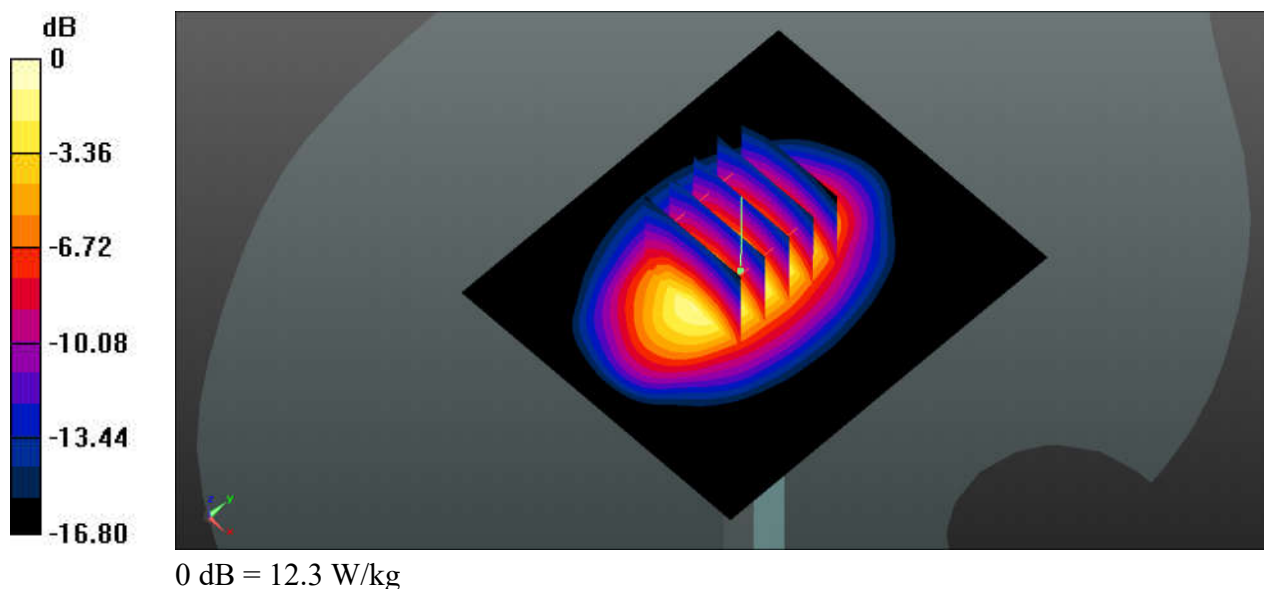
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.48, 5.48, 5.48); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 12.3 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 92.88 V/m; Power Drift = 0.19 dB  
Peak SAR (extrapolated) = 14.8 W/kg  
**SAR(1 g) = 8.38 W/kg; SAR(10 g) = 4.5 W/kg**  
Maximum value of SAR (measured) = 11.8 W/kg



## System Check\_Head\_1750MHz

**DUT: D1750V2-SN:1137**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_211128 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.306$  S/m;  $\epsilon_r = 38.143$ ;  $\rho = 1000$  kg/m<sup>3</sup>

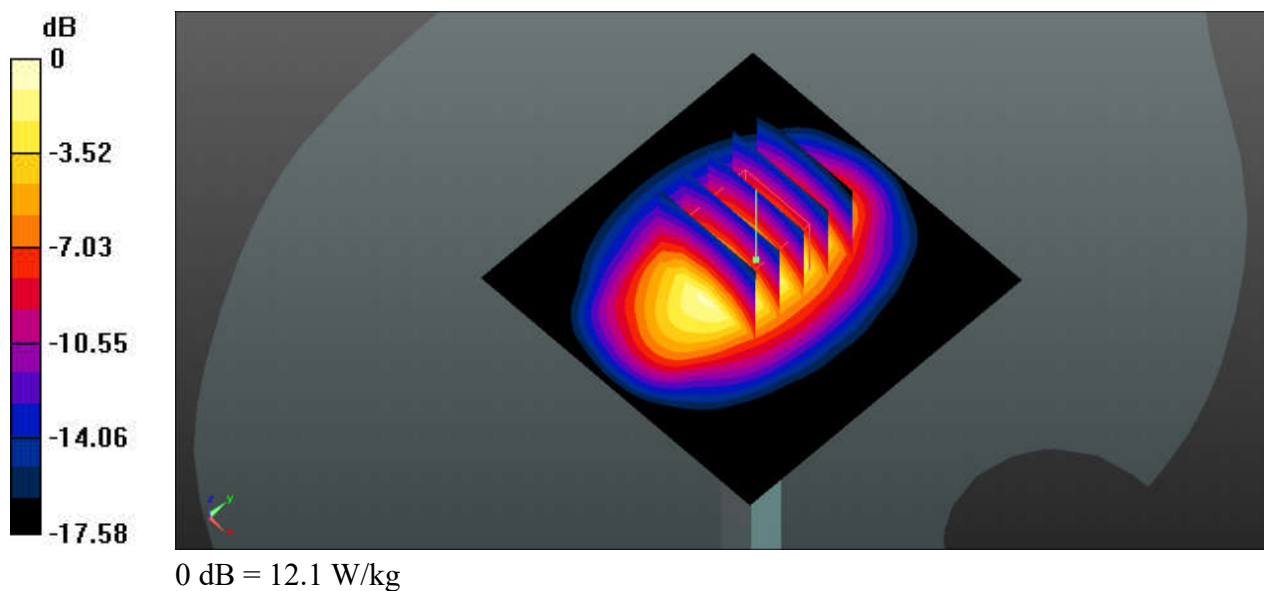
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.48, 5.48, 5.48); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 12.1 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 96.69 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 15.3 W/kg  
**SAR(1 g) = 8.57 W/kg; SAR(10 g) = 4.59 W/kg**  
Maximum value of SAR (measured) = 12.0 W/kg



## System Check\_Head\_1900MHz

**DUT: D1900V2-SN:5d170**

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_211108 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.381$  S/m;  $\epsilon_r = 38.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

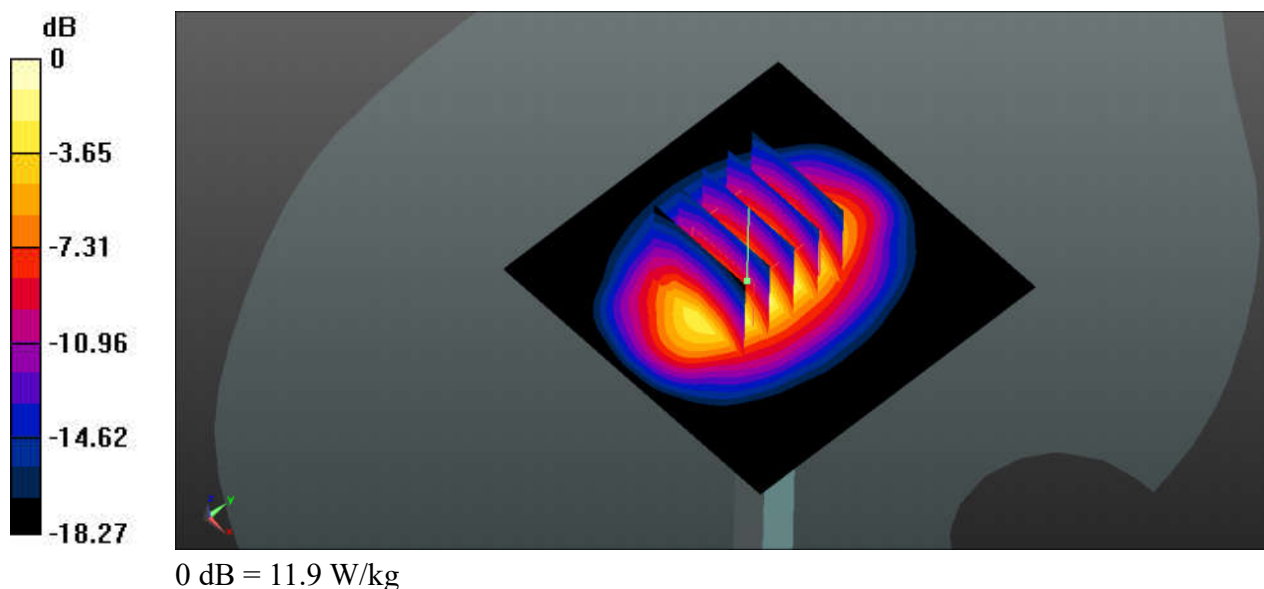
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 12.1 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 91.94 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 17.4 W/kg  
**SAR(1 g) = 9.41 W/kg; SAR(10 g) = 4.88 W/kg**  
Maximum value of SAR (measured) = 11.9 W/kg



## System Check\_Head\_1900MHz

### DUT: D1900V2-SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_211119 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.412$  S/m;  $\epsilon_r = 39.311$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7576; ConvF(8.33, 8.33, 8.33); Calibrated: 2021/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 AA; Serial: 2035
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 15.1 W/kg

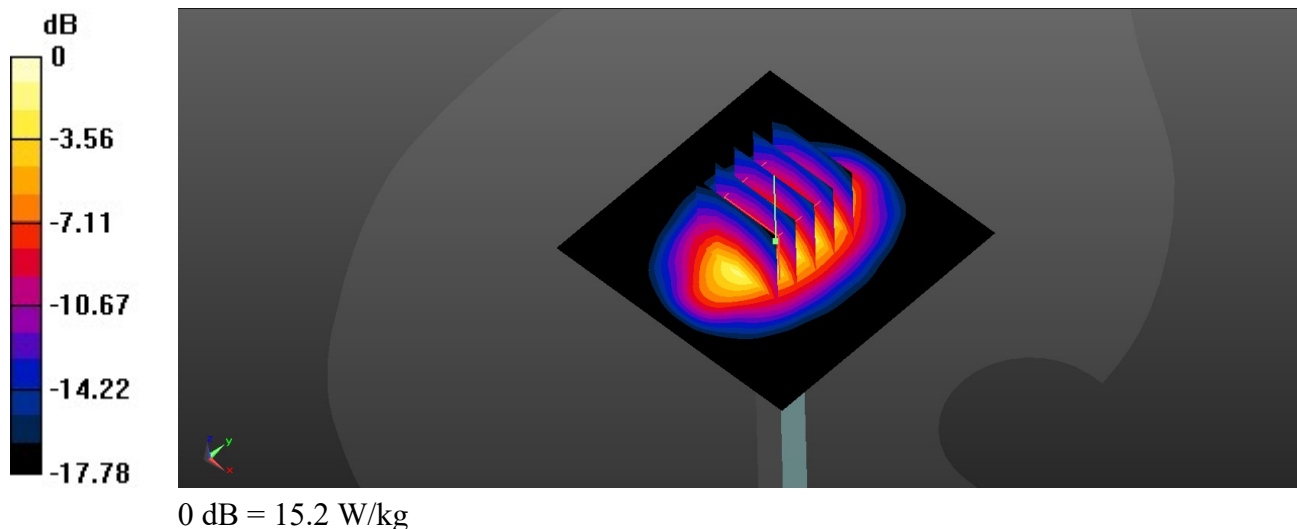
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 107.6 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5 W/kg**

Maximum value of SAR (measured) = 15.2 W/kg



## System Check\_Head\_1900MHz

**DUT: D1900V2-SN:5d170**

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_211121 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.439$  S/m;  $\epsilon_r = 40.038$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.24, 8.24, 8.24); Calibrated: 2021/4/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: SAM (30deg probe tilt) with CRP v4.0; Type: QD000P40CC; Serial: TP: 1500
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

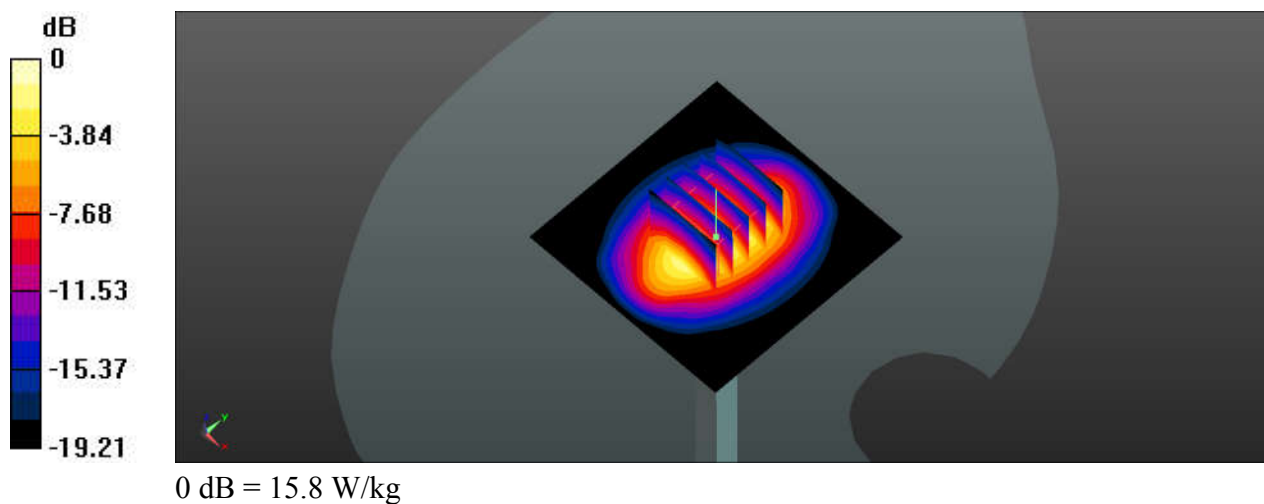
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 107.7 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 19.3 W/kg

**SAR(1 g) = 9.74 W/kg; SAR(10 g) = 4.93 W/kg**

Maximum value of SAR (measured) = 15.8 W/kg



## System Check\_Head\_1900MHz

**DUT: D1900V2-SN:5d170**

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_211129 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 38.99$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3191; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/2/19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2021/7/15
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 14.4 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 99.56 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 17.7 W/kg  
**SAR(1 g) = 9.54 W/kg; SAR(10 g) = 4.94 W/kg**  
Maximum value of SAR (measured) = 14.9 W/kg

