



| | | | | | | | | | | | | | | | | | |
|-------------|------|------|-----|-----|-----------|------|-------|-------|--------------|--------|---------|-------|-------|-------|-------|-------|-------|
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Left Side | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.08 | 19.00 | 1.236 | 0.05 | 1.580 | 1.953 |
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Top Side | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.21 | 27.00 | 1.199 | 0.1 | 1.270 | 1.523 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Front | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | 0.05 | 1.370 | 1.717 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Back | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.04 | 19.00 | 1.247 | 0.08 | 2.280 | 2.844 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Left Side | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.04 | 19.00 | 1.247 | -0.08 | 1.600 | 1.996 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Top Side | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | 0.05 | 1.280 | 1.604 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Back | 15mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | 0.02 | 0.211 | 0.264 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Left Side | 6mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | 0.1 | 0.829 | 1.039 |
| FR1 n78-PC2 | 100M | BPSK | 270 | 0 | Back | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.00 | 19.00 | 1.259 | 0.03 | 2.210 | 2.782 |
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Front | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.21 | 27.00 | 1.199 | 0.1 | 1.400 | 1.679 |
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Back | 0mm | Ant 3 | DSI 6 | Simultaneous | 633334 | 3500.01 | 17.60 | 18.50 | 1.230 | 0.17 | 2.070 | 2.547 |
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Left Side | 0mm | Ant 3 | DSI 6 | Simultaneous | 633334 | 3500.01 | 17.60 | 18.50 | 1.230 | -0.01 | 1.290 | 1.587 |
| FR1 n78-PC2 | 100M | BPSK | 1 | 137 | Top Side | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.21 | 27.00 | 1.199 | 0.06 | 1.270 | 1.523 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Front | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | -0.07 | 1.370 | 1.717 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Back | 0mm | Ant 3 | DSI 6 | Simultaneous | 633334 | 3500.01 | 17.56 | 18.50 | 1.242 | 0.04 | 2.130 | 2.645 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Left Side | 0mm | Ant 3 | DSI 6 | Simultaneous | 633334 | 3500.01 | 17.56 | 18.50 | 1.242 | 0.01 | 1.380 | 1.713 |
| FR1 n78-PC2 | 100M | BPSK | 135 | 69 | Top Side | 0mm | Ant 3 | DSI 4 | Full | 633334 | 3500.01 | 26.02 | 27.00 | 1.253 | 0.04 | 1.280 | 1.604 |
| FR1 n78-PC2 | 100M | BPSK | 270 | 0 | Back | 0mm | Ant 3 | DSI 6 | Simultaneous | 633334 | 3500.01 | 17.52 | 18.50 | 1.253 | -0.14 | 2.040 | 2.556 |

<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) |
|----------|------------|---------------|---------------|----------|---------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 87 | WLAN2.4GHz | 802.11b 1Mbps | Back | 0mm | Ant 2+4 | Full | 11 | 2462 | 21.31 | 22.50 | 1.314 | 97.82 | 1.022 | 0.07 | 0.750 | 1.007 |

<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) |
|----------|------------|---------------------|---------------|----------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 88 | WLAN5.2GHz | 802.11a 6Mbps | Back | 0mm | Ant 4+12 | Full | 40 | 5200 | 21.18 | 22.00 | 1.208 | 97.95 | 1.021 | -0.14 | 1.110 | 1.369 |
| | WLAN5.2GHz | 802.11n-HT40 MCS0 | Back | 0mm | Ant 4+12 | Simultaneous | 46 | 5230 | 20.35 | 21.50 | 1.304 | 100 | 1.000 | 0.07 | 0.885 | 1.154 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 0mm | Ant 4+12 | Full | 52 | 5260 | 20.87 | 22.00 | 1.296 | 97.95 | 1.021 | 0.13 | 0.271 | 0.359 |
| 89 | WLAN5.3GHz | 802.11a 6Mbps | Back | 0mm | Ant 4+12 | Full | 52 | 5260 | 20.87 | 22.00 | 1.296 | 97.95 | 1.021 | -0.05 | 0.902 | 1.193 |
| | WLAN5.3GHz | 802.11a 6Mbps | Left Side | 0mm | Ant 4+12 | Full | 52 | 5260 | 20.87 | 22.00 | 1.296 | 97.95 | 1.021 | 0.06 | 0.071 | 0.094 |
| | WLAN5.3GHz | 802.11a 6Mbps | Right Side | 0mm | Ant 4+12 | Full | 52 | 5260 | 20.87 | 22.00 | 1.296 | 97.95 | 1.021 | 0.12 | 0.033 | 0.044 |
| | WLAN5.3GHz | 802.11a 6Mbps | Top Side | 0mm | Ant 4+12 | Full | 52 | 5260 | 20.87 | 22.00 | 1.296 | 97.95 | 1.021 | 0.16 | 0.193 | 0.255 |
| | WLAN5.5GHz | 802.11a 6Mbps | Front | 0mm | Ant 4+12 | Full | 132 | 5660 | 20.45 | 21.50 | 1.274 | 97.95 | 1.021 | 0.05 | 0.317 | 0.412 |
| 90 | WLAN5.5GHz | 802.11a 6Mbps | Back | 0mm | Ant 4+12 | Full | 132 | 5660 | 20.45 | 21.50 | 1.274 | 97.95 | 1.021 | 0.11 | 1.790 | 2.327 |
| | WLAN5.5GHz | 802.11a 6Mbps | Left Side | 0mm | Ant 4+12 | Full | 132 | 5660 | 20.45 | 21.50 | 1.274 | 97.95 | 1.021 | -0.15 | 0.075 | 0.098 |
| | WLAN5.5GHz | 802.11a 6Mbps | Right Side | 0mm | Ant 4+12 | Full | 132 | 5660 | 20.45 | 21.50 | 1.274 | 97.95 | 1.021 | 0.03 | 0.048 | 0.062 |
| | WLAN5.5GHz | 802.11a 6Mbps | Top Side | 0mm | Ant 4+12 | Full | 132 | 5660 | 20.45 | 21.50 | 1.274 | 97.95 | 1.021 | 0.03 | 0.264 | 0.343 |
| | WLAN5.5GHz | 802.11a 6Mbps | Back | 0mm | Ant 4+12 | Full | 100 | 5500 | 20.33 | 21.50 | 1.310 | 97.95 | 1.021 | -0.12 | 1.550 | 2.074 |
| | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front | 0mm | Ant 4+12 | Simultaneous | 106 | 5530 | 16.21 | 17.00 | 1.199 | 100 | 1.000 | -0.13 | 0.241 | 0.289 |
| | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 4+12 | Simultaneous | 106 | 5530 | 16.21 | 17.00 | 1.199 | 100 | 1.000 | -0.17 | 0.891 | 1.069 |
| | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Side | 0mm | Ant 4+12 | Simultaneous | 106 | 5530 | 16.21 | 17.00 | 1.199 | 100 | 1.000 | 0.11 | 0.056 | 0.067 |
| | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side | 0mm | Ant 4+12 | Simultaneous | 106 | 5530 | 16.21 | 17.00 | 1.199 | 100 | 1.000 | 0.14 | 0.019 | 0.023 |
| | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side | 0mm | Ant 4+12 | Simultaneous | 106 | 5530 | 16.21 | 17.00 | 1.199 | 100 | 1.000 | 0.09 | 0.152 | 0.182 |
| 91 | WLAN5.8GHz | 802.11a 6Mbps | Back | 0mm | Ant 4+12 | Full | 157 | 5785 | 20.55 | 21.50 | 1.245 | 97.95 | 1.021 | 0.02 | 0.816 | 1.037 |



<WLAN6G 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) | Measured APD 4cm ² (W/m ²) |
|----------|----------|----------------------|---------------|----------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|---|
| | WLAN6GHz | 802.11ac-VHT160 MCS0 | Front | 0mm | Ant 4+12 | Full | 15 | 6025 | 15.88 | 16.50 | 1.153 | 100 | 1.000 | -0.12 | 0.007 | 0.008 | 0.166 |
| 92 | WLAN6GHz | 802.11ac-VHT160 MCS0 | Back | 0mm | Ant 4+12 | Full | 15 | 6025 | 15.88 | 16.50 | 1.153 | 100 | 1.000 | -0.15 | 0.035 | 0.040 | 0.849 |
| | WLAN6GHz | 802.11ac-VHT160 MCS0 | Left Side | 0mm | Ant 4+12 | Full | 15 | 6025 | 15.88 | 16.50 | 1.153 | 100 | 1.000 | 0.05 | 0.001 | 0.001 | 0.03 |
| | WLAN6GHz | 802.11ac-VHT160 MCS0 | Right Side | 0mm | Ant 4+12 | Full | 15 | 6025 | 15.88 | 16.50 | 1.153 | 100 | 1.000 | 0.09 | 0.004 | 0.005 | 0.109 |
| | WLAN6GHz | 802.11ac-VHT160 MCS0 | Top Side | 0mm | Ant 4+12 | Full | 15 | 6025 | 15.88 | 16.50 | 1.153 | 100 | 1.000 | 0.18 | 0.014 | 0.016 | 0.359 |



16.5 Repeated SAR Measurement

<1g>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Mode | Test Position | Gap (mm) | Antenna | Headset | Power State | 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) | Ratio | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------------|---------------|----------|----------|---------|-------------|-----------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | LTE Band 12 | 10M | QPSK | 1 | 0 | | Left Cheek | 0mm | Ant 1 | | DSI 2 | Full | 23095 | 707.5 | 22.62 | 24.00 | 1.374 | | 1.000 | -0.14 | 0.896 | 1 | 1.231 |
| 2nd | LTE Band 12 | 10M | QPSK | 1 | 0 | | Left Cheek | 0mm | Ant 1 | | DSI 2 | Full | 23095 | 707.5 | 22.62 | 24.00 | 1.374 | | 1.000 | 0.07 | 0.871 | 1.029 | 1.197 |
| 1st | LTE Band 42 | 20M | QPSK | 1 | 99 | | Right Cheek | 0mm | Ant 3 | | DSI 2 | Standalone | 42190 | 3460 | 18.91 | 20.00 | 1.285 | 62.9 | 1.006 | 0.17 | 0.963 | 1 | 1.245 |
| 2nd | LTE Band 42 | 20M | QPSK | 1 | 99 | | Right Cheek | 0mm | Ant 3 | | DSI 2 | Standalone | 42190 | 3460 | 18.91 | 20.00 | 1.285 | 62.9 | 1.006 | 0.09 | 0.951 | 1.013 | 1.230 |
| 1st | WLAN2.4GHz | | | | | 802.11b 1Mbps | Right Cheek | 0mm | Ant 2+4 | | | Standalone | 6 | 2437 | 20.18 | 21.50 | 1.355 | 97.82 | 1.022 | -0.1 | 0.958 | 1 | 1.327 |
| 2nd | WLAN2.4GHz | | | | | 802.11b 1Mbps | Right Cheek | 0mm | Ant 2+4 | | | Standalone | 6 | 2437 | 20.18 | 21.50 | 1.355 | 97.82 | 1.022 | 0.09 | 0.931 | 1.029 | 1.289 |
| 1st | WLAN5.5GHz | | | | | 802.11n-HT40 MCS0 | Right Cheek | 0mm | Ant 4+12 | | | Standalone | 102 | 5510 | 18.62 | 19.50 | 1.225 | 100 | 1.000 | 0.02 | 0.885 | 1 | 1.084 |
| 2nd | WLAN5.5GHz | | | | | 802.11n-HT40 MCS0 | Right Cheek | 0mm | Ant 4+12 | | | Standalone | 102 | 5510 | 18.62 | 19.50 | 1.225 | 100 | 1.000 | 0.04 | 0.852 | 1.039 | 1.043 |
| 1st | WCDMA V | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 4233 | 846.6 | 22.22 | 23.00 | 1.197 | | 1.000 | -0.05 | 1.050 | 1 | 1.257 |
| 2nd | WCDMA V | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 4233 | 846.6 | 22.22 | 23.00 | 1.197 | | 1.000 | 0.08 | 1.010 | 1.040 | 1.209 |
| 1st | FR1 n66 | 40M | BPSK | 1 | 1 | | Bottom Side | 5mm | Ant 0 | - | DSI 3 | Standalone | 349000 | 1745 | 16.46 | 17.50 | 1.271 | | 1.000 | 0.04 | 0.941 | 1 | 1.196 |
| 2nd | FR1 n66 | 40M | BPSK | 1 | 1 | | Bottom Side | 5mm | Ant 0 | - | DSI 3 | Standalone | 349000 | 1745 | 16.46 | 17.50 | 1.271 | | 1.000 | 0.09 | 0.914 | 1.030 | 1.161 |
| 1st | FR1 n7 | 40M | BPSK | 1 | 108 | | Bottom Side | 5mm | Ant 0 | - | DSI 3 | Standalone | 504000 | 2520 | 15.53 | 16.50 | 1.250 | | 1.000 | 0.17 | 0.970 | 1 | 1.213 |
| 2nd | FR1 n7 | 40M | BPSK | 1 | 108 | | Bottom Side | 5mm | Ant 0 | - | DSI 3 | Standalone | 504000 | 2520 | 15.53 | 16.50 | 1.250 | | 1.000 | 0.12 | 0.957 | 1.014 | 1.196 |
| 1st | WCDMA V | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 4233 | 846.6 | 22.22 | 23.00 | 1.197 | | 1.000 | -0.05 | 1.050 | 1 | 1.257 |
| 2nd | WCDMA V | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 4233 | 846.6 | 22.22 | 23.00 | 1.197 | | 1.000 | 0.08 | 1.010 | 1.040 | 1.209 |
| 1st | WCDMA II | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 9400 | 1880 | 16.48 | 17.50 | 1.265 | | 1.000 | 0.18 | 0.941 | 1 | 1.190 |
| 2nd | WCDMA II | | | | | RMC 12.2Kbps | Back | 5mm | Ant 0 | - | DSI 3 | Standalone | 9400 | 1880 | 16.48 | 17.50 | 1.265 | | 1.000 | 0.04 | 0.917 | 1.026 | 1.160 |
| 1st | WLAN5.3GHz | | | | | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 4+12 | - | | Standalone | 58 | 5290 | 18.41 | 19.50 | 1.285 | 100 | 1.000 | -0.06 | 0.815 | 1 | 1.048 |
| 2nd | WLAN5.3GHz | | | | | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 4+12 | - | | Standalone | 58 | 5290 | 18.41 | 19.50 | 1.285 | 100 | 1.000 | 0.17 | 0.798 | 1.021 | 1.026 |
| 1st | WLAN5.8GHz | | | | | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 4+12 | - | | Standalone | 155 | 5775 | 17.35 | 18.00 | 1.161 | 100 | 1.000 | 0.06 | 0.859 | 1 | 0.998 |
| 2nd | WLAN5.8GHz | | | | | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 4+12 | - | | Standalone | 155 | 5775 | 17.35 | 18.00 | 1.161 | 100 | 1.000 | 0.02 | 0.842 | 1.020 | 0.978 |

<10g>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Mode | Test Position | Gap (mm) | Antenna | Power State | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|--------------|---------------|----------|---------|-------------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | WCDMA V | | | | | RMC 12.2Kbps | Back | 0mm | Ant 0 | DSI 4 | Full | 4233 | 846.6 | 24.29 | 25.00 | 1.178 | 0.02 | 2.470 | 1 | 2.909 |
| 2nd | WCDMA V | | | | | RMC 12.2Kbps | Back | 0mm | Ant 0 | DSI 4 | Full | 4233 | 846.6 | 24.29 | 25.00 | 1.178 | 0.08 | 2.390 | 1.033 | 2.814 |
| 1st | WCDMA II | | | | | RMC 12.2Kbps | Bottom Side | 0mm | Ant 0 | DSI 6 | Standalone | 9400 | 1880 | 19.72 | 21.00 | 1.343 | -0.18 | 2.160 | 1 | 2.900 |
| 2nd | WCDMA II | | | | | RMC 12.2Kbps | Bottom Side | 0mm | Ant 0 | DSI 6 | Standalone | 9400 | 1880 | 19.72 | 21.00 | 1.343 | -0.18 | 2.080 | 1.038 | 2.793 |
| 1st | LTE Band 7 | 20M | QPSK | 1 | 99 | | Back | 0mm | Ant 0 | DSI 6 | Full | 21350 | 2560 | 23.34 | 24.00 | 1.164 | -0.05 | 2.530 | 1 | 2.945 |
| 2nd | LTE Band 7 | 20M | QPSK | 1 | 99 | | Back | 0mm | Ant 0 | DSI 6 | Full | 21350 | 2560 | 23.34 | 24.00 | 1.164 | -0.05 | 2.460 | 1.028 | 2.864 |
| 1st | FR1 n66 | 40M | BPSK | 108 | 54 | | Back | 0mm | Ant 0 | DSI 6 | Standalone | 346000 | 1730 | 21.10 | 22.00 | 1.230 | 0.04 | 2.370 | 1 | 2.916 |
| 2nd | FR1 n66 | 40M | BPSK | 108 | 54 | | Back | 0mm | Ant 0 | DSI 6 | Standalone | 346000 | 1730 | 21.10 | 22.00 | 1.230 | -0.14 | 2.310 | 1.026 | 2.842 |
| 1st | FR1 n78-PC3 | 100M | BPSK | 135 | 69 | | Back | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.04 | 19.00 | 1.247 | 0.08 | 2.280 | 1 | 2.844 |
| 2nd | FR1 n78-PC3 | 100M | BPSK | 135 | 69 | | Back | 0mm | Ant 3 | DSI 6 | Standalone | 633334 | 3500.01 | 18.04 | 19.00 | 1.247 | 0.03 | 2.210 | 1.032 | 2.757 |

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, 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.

17. 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 + WLAN6E | Yes | Yes | | Yes |
| 4. | WWAN + Bluetooth | Yes | Yes | Yes | Yes |
| 5. | Bluetooth + WLAN5GHz | Yes | Yes | Yes | Yes |
| 6. | Bluetooth + WLAN6E | Yes | Yes | | Yes |
| 7. | WWAN + Bluetooth + WLAN5GHz | Yes | Yes | Yes | Yes |
| 8. | WWAN + Bluetooth + WLAN6E | 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.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 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).
- WIFI 6E has no hotspot function.
- WIFI 6E can transmit simultaneously with Bluetooth.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/ WLAN6E and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz /WLAN6E and WLAN 2.4GHz can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.
- SAR Power density test report for WLAN6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
- 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.
 - The SPLSR calculated results please refer to section 17.6.

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

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

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values. Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

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

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



17.2 Head Exposure Conditions

| Exposure Position | 8 | 9 | 10 | 8+9 | 10+9 |
|-------------------|-----------------------|--------------------|-----------------------|---------------|---------------|
| | 5GHz WLAN Ant 4+12 | Bluetooth Ant 2 | 6GHz WLAN Ant 4+12 | Summed | Summed |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| Right Cheek | 1.084 | 0.255 | 0.007 | 1.34 | 0.26 |
| Right Tilted | 0.768 | 0.216 | 0.018 | 0.98 | 0.23 |
| Left Cheek | 0.496 | 0.141 | 0.002 | 0.64 | 0.14 |
| Left Tilted | 0.531 | 0.159 | 0.005 | 0.69 | 0.16 |

| WWAN Band | Exposure Position | 1 | 9 | 1+9 | |
|-----------|-------------------|------------------|--------------------|---------------|------|
| | | WWAN | Bluetooth Ant 2 | Summed | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | |
| GSM | GSM850Ant 0 | Right Cheek | 0.121 | 0.255 | 0.38 |
| | | Right Tilted | 0.077 | 0.216 | 0.29 |
| | | Left Cheek | 0.110 | 0.141 | 0.25 |
| | | Left Tilted | 0.060 | 0.159 | 0.22 |
| | GSM850Ant 1 | Right Cheek | 0.504 | 0.255 | 0.76 |
| | | Right Tilted | 0.491 | 0.216 | 0.71 |
| | | Left Cheek | 0.859 | 0.141 | 1.00 |
| | | Left Tilted | 0.693 | 0.159 | 0.85 |
| | GSM1900Ant 0 | Right Cheek | 0.107 | 0.255 | 0.36 |
| | | Right Tilted | 0.105 | 0.216 | 0.32 |
| | | Left Cheek | 0.205 | 0.141 | 0.35 |
| | | Left Tilted | 0.094 | 0.159 | 0.25 |
| WCDMA | WCDMA VAnt 0 | Right Cheek | 0.378 | 0.255 | 0.63 |
| | | Right Tilted | 0.203 | 0.216 | 0.42 |
| | | Left Cheek | 0.232 | 0.141 | 0.37 |
| | | Left Tilted | 0.169 | 0.159 | 0.33 |
| | WCDMA VAnt 1 | Right Cheek | 0.831 | 0.255 | 1.09 |
| | | Right Tilted | 0.754 | 0.216 | 0.97 |
| | | Left Cheek | 1.229 | 0.141 | 1.37 |
| | | Left Tilted | 1.149 | 0.159 | 1.31 |
| | WCDMA IVAnt 0 | Right Cheek | 0.095 | 0.255 | 0.35 |
| | | Right Tilted | 0.074 | 0.216 | 0.29 |
| | | Left Cheek | 0.158 | 0.141 | 0.30 |
| | | Left Tilted | 0.064 | 0.159 | 0.22 |
| | WCDMA IIAnt 0 | Right Cheek | 0.087 | 0.255 | 0.34 |
| | | Right Tilted | 0.042 | 0.216 | 0.26 |
| | | Left Cheek | 0.134 | 0.141 | 0.28 |
| | | Left Tilted | 0.053 | 0.159 | 0.21 |
| LTE | LTE Band 5Ant 0 | Right Cheek | 0.173 | 0.255 | 0.43 |
| | | Right Tilted | 0.085 | 0.216 | 0.30 |
| | | Left Cheek | 0.105 | 0.141 | 0.25 |
| | | Left Tilted | 0.072 | 0.159 | 0.23 |
| | LTE Band 12Ant 1 | Right Cheek | 0.666 | 0.255 | 0.92 |
| | | Right Tilted | 0.650 | 0.216 | 0.87 |
| | | Left Cheek | 1.231 | 0.141 | 1.37 |
| | | Left Tilted | 1.090 | 0.159 | 1.25 |
| | LTE Band 26Ant 1 | Right Cheek | 1.028 | 0.255 | 1.28 |
| | | Right Tilted | 0.560 | 0.216 | 0.78 |
| | | Left Cheek | 1.246 | 0.141 | 1.39 |
| | | Left Tilted | 1.244 | 0.159 | 1.40 |
| | LTE Band 66Ant 0 | Right Cheek | 0.078 | 0.255 | 0.33 |
| | | Right Tilted | 0.072 | 0.216 | 0.29 |



| | | | | | |
|------------------|------------------|--------------|-------|-------|------|
| | LTE Band 66Ant 1 | Left Cheek | 0.134 | 0.141 | 0.28 |
| | | Left Tilted | 0.076 | 0.159 | 0.24 |
| | | Right Cheek | 0.417 | 0.255 | 0.67 |
| | | Right Tilted | 0.546 | 0.216 | 0.76 |
| | | Left Cheek | 1.068 | 0.141 | 1.21 |
| | | Left Tilted | 1.151 | 0.159 | 1.31 |
| | LTE Band 2Ant 0 | Right Cheek | 0.079 | 0.255 | 0.33 |
| | | Right Tilted | 0.072 | 0.216 | 0.29 |
| | | Left Cheek | 0.123 | 0.141 | 0.26 |
| | | Left Tilted | 0.076 | 0.159 | 0.24 |
| | LTE Band 7Ant 0 | Right Cheek | 0.136 | 0.255 | 0.39 |
| | | Right Tilted | 0.061 | 0.216 | 0.28 |
| | | Left Cheek | 0.073 | 0.141 | 0.21 |
| | | Left Tilted | 0.069 | 0.159 | 0.23 |
| | LTE Band 7Ant 1 | Right Cheek | 0.916 | 0.255 | 1.17 |
| | | Right Tilted | 0.772 | 0.216 | 0.99 |
| | | Left Cheek | 0.975 | 0.141 | 1.12 |
| | | Left Tilted | 1.164 | 0.159 | 1.32 |
| | LTE Band 41Ant 0 | Right Cheek | 0.122 | 0.255 | 0.38 |
| | | Right Tilted | 0.048 | 0.216 | 0.26 |
| Left Cheek | | 0.062 | 0.141 | 0.20 | |
| Left Tilted | | 0.074 | 0.159 | 0.23 | |
| LTE Band 42Ant 3 | Right Cheek | 1.245 | 0.255 | 1.50 | |
| | Right Tilted | 0.745 | 0.216 | 0.96 | |
| | Left Cheek | 0.327 | 0.141 | 0.47 | |
| | Left Tilted | 0.248 | 0.159 | 0.41 | |
| FR 1 | FR1 n5Ant 1 | Right Cheek | 0.752 | 0.255 | 1.01 |
| | | Right Tilted | 0.723 | 0.216 | 0.94 |
| | | Left Cheek | 1.232 | 0.141 | 1.37 |
| | | Left Tilted | 1.202 | 0.159 | 1.36 |
| | FR1 n66Ant 0 | Right Cheek | 0.063 | 0.255 | 0.32 |
| | | Right Tilted | | 0.216 | 0.22 |
| | | Left Cheek | 0.146 | 0.141 | 0.29 |
| | | Left Tilted | 0.060 | 0.159 | 0.22 |
| | FR1 n66Ant 1 | Right Cheek | 0.364 | 0.255 | 0.62 |
| | | Right Tilted | 0.452 | 0.216 | 0.67 |
| | | Left Cheek | 1.090 | 0.141 | 1.23 |
| | | Left Tilted | 1.115 | 0.159 | 1.27 |
| | FR1 n7Ant 0 | Right Cheek | 0.134 | 0.255 | 0.39 |
| | | Right Tilted | | 0.216 | 0.22 |
| | | Left Cheek | 0.071 | 0.141 | 0.21 |
| | | Left Tilted | 0.058 | 0.159 | 0.22 |
| | FR1 n41-PC3Ant 0 | Right Cheek | 0.127 | 0.255 | 0.38 |
| | | Right Tilted | | 0.216 | 0.22 |
| | | Left Cheek | 0.072 | 0.141 | 0.21 |
| | | Left Tilted | 0.052 | 0.159 | 0.21 |
| | FR1 n41-PC2Ant 0 | Right Cheek | 0.238 | 0.255 | 0.49 |
| | | Right Tilted | 0.072 | 0.216 | 0.29 |
| | | Left Cheek | 0.138 | 0.141 | 0.28 |
| | | Left Tilted | 0.117 | 0.159 | 0.28 |
| | FR1 n78-PC3Ant 3 | Right Cheek | 0.742 | 0.255 | 1.00 |
| | | Right Tilted | 0.464 | 0.216 | 0.68 |
| | | Left Cheek | 0.194 | 0.141 | 0.34 |
| | | Left Tilted | 0.163 | 0.159 | 0.32 |
| FR1 n78-PC2Ant 3 | Right Cheek | 0.742 | 0.255 | 1.00 | |
| | Right Tilted | 0.464 | 0.216 | 0.68 | |
| | Left Cheek | 0.194 | 0.141 | 0.34 | |
| | Left Tilted | 0.163 | 0.159 | 0.32 | |



| WWAN Band | | Exposure Position | 1 | 5 | 8 | 9 | 10 | 1+5 | 1+8 | 1+8+9 | 1+10 | 1+9+10 |
|----------------|-------------------|-------------------|---------------|---------------------|--------------------|-----------------|--------------------|---------------|---------------|---------------|---------------|---------------|
| | | | WWAN | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+12 | Bluetooth Ant 2 | 6GHz WLAN Ant 4+12 | Summed | Summed | Summed | Summed | Summed |
| | | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| GSM | GSM850Ant 0 | Right Cheek | 0.121 | 0.404 | 0.298 | 0.255 | 0.007 | 0.53 | 0.42 | 0.67 | 0.13 | 0.38 |
| | | Right Tilted | 0.077 | 0.310 | 0.226 | 0.216 | 0.018 | 0.39 | 0.30 | 0.52 | 0.10 | 0.31 |
| | | Left Cheek | 0.110 | 0.226 | 0.148 | 0.141 | 0.002 | 0.34 | 0.26 | 0.40 | 0.11 | 0.25 |
| | | Left Tilted | 0.060 | 0.208 | 0.143 | 0.159 | 0.005 | 0.27 | 0.20 | 0.36 | 0.07 | 0.22 |
| | GSM850Ant 1 | Right Cheek | 0.504 | 0.404 | 0.298 | 0.255 | 0.007 | 0.91 | 0.80 | 1.06 | 0.51 | 0.77 |
| | | Right Tilted | 0.491 | 0.226 | 0.226 | 0.216 | 0.018 | 0.49 | 0.72 | 0.93 | 0.51 | 0.73 |
| | | Left Cheek | 0.859 | 0.226 | 0.148 | 0.141 | 0.002 | 1.09 | 1.01 | 1.15 | 0.86 | 1.00 |
| | | Left Tilted | 0.693 | 0.208 | 0.143 | 0.159 | 0.005 | 0.90 | 0.84 | 1.00 | 0.70 | 0.86 |
| | GSM1900Ant 0 | Right Cheek | 0.107 | 0.404 | 0.298 | 0.255 | 0.007 | 0.51 | 0.41 | 0.66 | 0.11 | 0.37 |
| | | Right Tilted | 0.105 | 0.310 | 0.226 | 0.216 | 0.018 | 0.42 | 0.33 | 0.55 | 0.12 | 0.34 |
| | | Left Cheek | 0.205 | 0.226 | 0.148 | 0.141 | 0.002 | 0.43 | 0.35 | 0.49 | 0.21 | 0.35 |
| | | Left Tilted | 0.094 | 0.208 | 0.143 | 0.159 | 0.005 | 0.30 | 0.24 | 0.40 | 0.10 | 0.26 |
| WCDMA | WCDMA V Ant 0 | Right Cheek | 0.378 | 0.404 | 0.298 | 0.255 | 0.007 | 0.78 | 0.68 | 0.93 | 0.39 | 0.64 |
| | | Right Tilted | 0.203 | 0.310 | 0.226 | 0.216 | 0.018 | 0.51 | 0.43 | 0.65 | 0.22 | 0.44 |
| | | Left Cheek | 0.232 | 0.226 | 0.148 | 0.141 | 0.002 | 0.46 | 0.38 | 0.52 | 0.23 | 0.38 |
| | | Left Tilted | 0.169 | 0.208 | 0.143 | 0.159 | 0.005 | 0.38 | 0.31 | 0.47 | 0.17 | 0.33 |
| | WCDMA V Ant 1 | Right Cheek | 0.619 | 0.404 | 0.298 | 0.255 | 0.007 | 1.02 | 0.92 | 1.17 | 0.63 | 0.88 |
| | | Right Tilted | 0.608 | 0.310 | 0.226 | 0.216 | 0.018 | 0.92 | 0.83 | 1.05 | 0.63 | 0.84 |
| | | Left Cheek | 0.811 | 0.226 | 0.148 | 0.141 | 0.002 | 1.04 | 0.96 | 1.10 | 0.81 | 0.95 |
| | | Left Tilted | 0.753 | 0.208 | 0.143 | 0.159 | 0.005 | 0.96 | 0.90 | 1.06 | 0.76 | 0.92 |
| | WCDMA IV Ant 0 | Right Cheek | 0.095 | 0.404 | 0.298 | 0.255 | 0.007 | 0.50 | 0.39 | 0.65 | 0.10 | 0.36 |
| | | Right Tilted | 0.074 | 0.310 | 0.226 | 0.216 | 0.018 | 0.38 | 0.30 | 0.52 | 0.09 | 0.31 |
| | | Left Cheek | 0.158 | 0.226 | 0.148 | 0.141 | 0.002 | 0.38 | 0.31 | 0.45 | 0.16 | 0.30 |
| | | Left Tilted | 0.064 | 0.208 | 0.143 | 0.159 | 0.005 | 0.27 | 0.21 | 0.37 | 0.07 | 0.23 |
| WCDMA II Ant 0 | Right Cheek | 0.087 | 0.404 | 0.298 | 0.255 | 0.007 | 0.49 | 0.39 | 0.64 | 0.09 | 0.35 | |
| | Right Tilted | 0.042 | 0.310 | 0.226 | 0.216 | 0.018 | 0.35 | 0.27 | 0.48 | 0.06 | 0.28 | |
| | Left Cheek | 0.134 | 0.226 | 0.148 | 0.141 | 0.002 | 0.36 | 0.28 | 0.42 | 0.14 | 0.28 | |
| | Left Tilted | 0.053 | 0.208 | 0.143 | 0.159 | 0.005 | 0.26 | 0.20 | 0.36 | 0.06 | 0.22 | |
| LTE | LTE Band 5 Ant 0 | Right Cheek | 0.173 | 0.404 | 0.298 | 0.255 | 0.007 | 0.58 | 0.47 | 0.73 | 0.18 | 0.44 |
| | | Right Tilted | 0.085 | 0.310 | 0.226 | 0.216 | 0.018 | 0.40 | 0.31 | 0.53 | 0.10 | 0.32 |
| | | Left Cheek | 0.105 | 0.226 | 0.148 | 0.141 | 0.002 | 0.33 | 0.25 | 0.39 | 0.11 | 0.25 |
| | | Left Tilted | 0.072 | 0.208 | 0.143 | 0.159 | 0.005 | 0.28 | 0.22 | 0.37 | 0.08 | 0.24 |
| | LTE Band 12 Ant 1 | Right Cheek | 0.536 | 0.404 | 0.298 | 0.255 | 0.007 | 0.94 | 0.83 | 1.09 | 0.54 | 0.80 |
| | | Right Tilted | 0.530 | 0.310 | 0.226 | 0.216 | 0.018 | 0.84 | 0.76 | 0.97 | 0.55 | 0.76 |
| | | Left Cheek | 0.991 | 0.226 | 0.148 | 0.141 | 0.002 | 1.22 | 1.14 | 1.28 | 0.99 | 1.13 |
| | | Left Tilted | 0.879 | 0.208 | 0.143 | 0.159 | 0.005 | 1.09 | 1.02 | 1.18 | 0.88 | 1.04 |
| | LTE Band 26 Ant 1 | Right Cheek | 0.441 | 0.404 | 0.298 | 0.255 | 0.007 | 0.85 | 0.74 | 0.99 | 0.45 | 0.70 |
| | | Right Tilted | 0.668 | 0.310 | 0.226 | 0.216 | 0.018 | 0.98 | 0.89 | 1.11 | 0.69 | 0.90 |
| | | Left Cheek | 0.997 | 0.226 | 0.148 | 0.141 | 0.002 | 1.22 | 1.15 | 1.29 | 1.00 | 1.14 |
| | | Left Tilted | 0.983 | 0.208 | 0.143 | 0.159 | 0.005 | 1.19 | 1.13 | 1.29 | 0.99 | 1.15 |
| | LTE Band 66 Ant 0 | Right Cheek | 0.078 | 0.404 | 0.298 | 0.255 | 0.007 | 0.48 | 0.38 | 0.63 | 0.09 | 0.34 |
| | | Right Tilted | 0.072 | 0.310 | 0.226 | 0.216 | 0.018 | 0.38 | 0.30 | 0.51 | 0.09 | 0.31 |
| | | Left Cheek | 0.134 | 0.226 | 0.148 | 0.141 | 0.002 | 0.36 | 0.28 | 0.42 | 0.14 | 0.28 |
| | | Left Tilted | 0.076 | 0.208 | 0.143 | 0.159 | 0.005 | 0.28 | 0.22 | 0.38 | 0.08 | 0.24 |
| | LTE Band 66 Ant 1 | Right Cheek | 0.369 | 0.404 | 0.298 | 0.255 | 0.007 | 0.77 | 0.67 | 0.92 | 0.38 | 0.63 |
| | | Right Tilted | 0.481 | 0.310 | 0.226 | 0.216 | 0.018 | 0.79 | 0.71 | 0.92 | 0.50 | 0.72 |
| | | Left Cheek | 0.794 | 0.226 | 0.148 | 0.141 | 0.002 | 1.02 | 0.94 | 1.08 | 0.80 | 0.94 |
| | | Left Tilted | 0.981 | 0.208 | 0.143 | 0.159 | 0.005 | 1.19 | 1.12 | 1.28 | 0.99 | 1.15 |
| | LTE Band 2 Ant 0 | Right Cheek | 0.079 | 0.404 | 0.298 | 0.255 | 0.007 | 0.48 | 0.38 | 0.63 | 0.09 | 0.34 |
| | | Right Tilted | 0.072 | 0.310 | 0.226 | 0.216 | 0.018 | 0.38 | 0.30 | 0.51 | 0.09 | 0.31 |



| | | | | | | | | | | | | |
|-------------------|-------------------|--------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| FR 1 | LTE Band 7Ant 0 | Left Cheek | 0.123 | 0.226 | 0.148 | 0.141 | 0.002 | 0.35 | 0.27 | 0.41 | 0.13 | 0.27 |
| | | Left Tilted | 0.076 | 0.208 | 0.143 | 0.159 | 0.005 | 0.28 | 0.22 | 0.38 | 0.08 | 0.24 |
| | | Right Cheek | 0.136 | 0.404 | 0.298 | 0.255 | 0.007 | 0.54 | 0.43 | 0.69 | 0.14 | 0.40 |
| | | Right Tilted | 0.061 | 0.310 | 0.226 | 0.216 | 0.018 | 0.37 | 0.29 | 0.50 | 0.08 | 0.30 |
| | | Left Cheek | 0.073 | 0.226 | 0.148 | 0.141 | 0.002 | 0.30 | 0.22 | 0.36 | 0.08 | 0.22 |
| | | Left Tilted | 0.069 | 0.208 | 0.143 | 0.159 | 0.005 | 0.28 | 0.21 | 0.37 | 0.07 | 0.23 |
| | LTE Band 7 Ant 1 | Right Cheek | 0.691 | 0.404 | 0.298 | 0.255 | 0.007 | 1.10 | 0.99 | 1.24 | 0.70 | 0.95 |
| | | Right Tilted | 0.623 | 0.310 | 0.226 | 0.216 | 0.018 | 0.93 | 0.85 | 1.07 | 0.64 | 0.86 |
| | | Left Cheek | 0.761 | 0.226 | 0.148 | 0.141 | 0.002 | 0.99 | 0.91 | 1.05 | 0.76 | 0.90 |
| | | Left Tilted | 0.966 | 0.208 | 0.143 | 0.159 | 0.005 | 1.17 | 1.11 | 1.27 | 0.97 | 1.13 |
| | LTE Band 41Ant 0 | Right Cheek | 0.122 | 0.404 | 0.298 | 0.255 | 0.007 | 0.53 | 0.42 | 0.68 | 0.13 | 0.38 |
| | | Right Tilted | 0.048 | 0.310 | 0.226 | 0.216 | 0.018 | 0.36 | 0.27 | 0.49 | 0.07 | 0.28 |
| | | Left Cheek | 0.062 | 0.226 | 0.148 | 0.141 | 0.002 | 0.29 | 0.21 | 0.35 | 0.06 | 0.21 |
| | | Left Tilted | 0.074 | 0.208 | 0.143 | 0.159 | 0.005 | 0.28 | 0.22 | 0.38 | 0.08 | 0.24 |
| | LTE Band 42 Ant 3 | Right Cheek | 0.915 | 0.404 | 0.298 | 0.255 | 0.007 | 1.32 | 1.21 | 1.47 | 0.92 | 1.18 |
| | | Right Tilted | 0.566 | 0.310 | 0.226 | 0.216 | 0.018 | 0.88 | 0.79 | 1.01 | 0.58 | 0.80 |
| Left Cheek | | 0.266 | 0.226 | 0.148 | 0.141 | 0.002 | 0.49 | 0.41 | 0.56 | 0.27 | 0.41 | |
| Left Tilted | | 0.225 | 0.208 | 0.143 | 0.159 | 0.005 | 0.43 | 0.37 | 0.53 | 0.23 | 0.39 | |
| FR 1 | FR1 n5 Ant 1 | Right Cheek | 0.634 | 0.404 | 0.298 | 0.255 | 0.007 | 1.04 | 0.93 | 1.19 | 0.64 | 0.90 |
| | | Right Tilted | 0.622 | 0.310 | 0.226 | 0.216 | 0.018 | 0.93 | 0.85 | 1.06 | 0.64 | 0.86 |
| | | Left Cheek | 0.915 | 0.226 | 0.148 | 0.141 | 0.002 | 1.14 | 1.06 | 1.20 | 0.92 | 1.06 |
| | | Left Tilted | 0.869 | 0.208 | 0.143 | 0.159 | 0.005 | 1.08 | 1.01 | 1.17 | 0.87 | 1.03 |
| | FR1 n66Ant 0 | Right Cheek | 0.063 | 0.404 | 0.298 | 0.255 | 0.007 | 0.47 | 0.36 | 0.62 | 0.07 | 0.33 |
| | | Right Tilted | | 0.310 | 0.226 | 0.216 | 0.018 | 0.31 | 0.23 | 0.44 | 0.02 | 0.23 |
| | | Left Cheek | 0.146 | 0.226 | 0.148 | 0.141 | 0.002 | 0.37 | 0.29 | 0.44 | 0.15 | 0.29 |
| | | Left Tilted | 0.060 | 0.208 | 0.143 | 0.159 | 0.005 | 0.27 | 0.20 | 0.36 | 0.07 | 0.22 |
| | FR1 n66 Ant 1 | Right Cheek | 0.281 | 0.404 | 0.298 | 0.255 | 0.007 | 0.69 | 0.58 | 0.83 | 0.29 | 0.54 |
| | | Right Tilted | 0.360 | 0.310 | 0.226 | 0.216 | 0.018 | 0.67 | 0.59 | 0.80 | 0.38 | 0.59 |
| | | Left Cheek | 0.760 | 0.226 | 0.148 | 0.141 | 0.002 | 0.99 | 0.91 | 1.05 | 0.76 | 0.90 |
| | | Left Tilted | 0.899 | 0.208 | 0.143 | 0.159 | 0.005 | 1.11 | 1.04 | 1.20 | 0.90 | 1.06 |
| FR1 n7Ant 0 | Right Cheek | 0.134 | 0.404 | 0.298 | 0.255 | 0.007 | 0.54 | 0.43 | 0.69 | 0.14 | 0.40 | |
| | Right Tilted | | 0.310 | 0.226 | 0.216 | 0.018 | 0.31 | 0.23 | 0.44 | 0.02 | 0.23 | |
| | Left Cheek | 0.071 | 0.226 | 0.148 | 0.141 | 0.002 | 0.30 | 0.22 | 0.36 | 0.07 | 0.21 | |
| | Left Tilted | 0.058 | 0.208 | 0.143 | 0.159 | 0.005 | 0.27 | 0.20 | 0.36 | 0.06 | 0.22 | |
| FR1 n41-PC3Ant 0 | Right Cheek | 0.127 | 0.404 | 0.298 | 0.255 | 0.007 | 0.53 | 0.43 | 0.68 | 0.13 | 0.39 | |
| | Right Tilted | | 0.310 | 0.226 | 0.216 | 0.018 | 0.31 | 0.23 | 0.44 | 0.02 | 0.23 | |
| | Left Cheek | 0.072 | 0.226 | 0.148 | 0.141 | 0.002 | 0.30 | 0.22 | 0.36 | 0.07 | 0.22 | |
| | Left Tilted | 0.052 | 0.208 | 0.143 | 0.159 | 0.005 | 0.26 | 0.20 | 0.35 | 0.06 | 0.22 | |
| FR1 n41-PC2 Ant 0 | Right Cheek | 0.238 | 0.404 | 0.298 | 0.255 | 0.007 | 0.64 | 0.54 | 0.79 | 0.25 | 0.50 | |
| | Right Tilted | 0.072 | 0.310 | 0.226 | 0.216 | 0.018 | 0.38 | 0.30 | 0.51 | 0.09 | 0.31 | |
| | Left Cheek | 0.138 | 0.226 | 0.148 | 0.141 | 0.002 | 0.36 | 0.29 | 0.43 | 0.14 | 0.28 | |
| | Left Tilted | 0.117 | 0.208 | 0.143 | 0.159 | 0.005 | 0.33 | 0.26 | 0.42 | 0.12 | 0.28 | |
| FR1 n78-PC3 Ant 3 | Right Cheek | 0.565 | 0.404 | 0.298 | 0.255 | 0.007 | 0.97 | 0.86 | 1.12 | 0.57 | 0.83 | |
| | Right Tilted | 0.357 | 0.310 | 0.226 | 0.216 | 0.018 | 0.67 | 0.58 | 0.80 | 0.38 | 0.59 | |
| | Left Cheek | 0.155 | 0.226 | 0.148 | 0.141 | 0.002 | 0.38 | 0.30 | 0.44 | 0.16 | 0.30 | |
| | Left Tilted | 0.124 | 0.208 | 0.143 | 0.159 | 0.005 | 0.33 | 0.27 | 0.43 | 0.13 | 0.29 | |
| FR1 n78-PC2 Ant 3 | Right Cheek | 0.565 | 0.404 | 0.298 | 0.255 | 0.007 | 0.97 | 0.86 | 1.12 | 0.57 | 0.83 | |
| | Right Tilted | 0.357 | 0.310 | 0.226 | 0.216 | 0.018 | 0.67 | 0.58 | 0.80 | 0.38 | 0.59 | |
| | Left Cheek | 0.155 | 0.226 | 0.148 | 0.141 | 0.002 | 0.38 | 0.30 | 0.44 | 0.16 | 0.30 | |
| | Left Tilted | 0.124 | 0.208 | 0.143 | 0.159 | 0.005 | 0.33 | 0.27 | 0.43 | 0.13 | 0.29 | |



17.3 Hotspot Exposure Conditions

| Exposure Position | 8 | 9 | 8+9 |
|-------------------|-----------------------|--------------------|---------------|
| | 5GHz WLAN Ant 4+12 | Bluetooth Ant 2 | Summed |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| Front | 0.170 | 0.104 | 0.27 |
| Back | 1.048 | 0.149 | 1.20 |
| Left side | | 0.074 | 0.07 |
| Right side | | 0.051 | 0.05 |
| Top side | | 0.119 | 0.12 |
| Bottom side | | | 0.00 |

| WWAN Band | | Exposure Position | 1 | 9 | 1+9 |
|-----------|---------------|-------------------|------------------|--------------------|---------------|
| | | | WWAN | Bluetooth Ant 2 | Summed |
| | | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| GSM | GSM850Ant 0 | Front | 1.031 | 0.104 | 1.14 |
| | | Back | 1.233 | 0.149 | 1.38 |
| | | Left side | 0.231 | 0.074 | 0.31 |
| | | Right side | 0.434 | 0.051 | 0.49 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | 0.910 | | 0.91 |
| | GSM850Ant 1 | Front | 0.447 | 0.104 | 0.55 |
| | | Back | 0.828 | 0.149 | 0.98 |
| | | Left side | 0.113 | 0.074 | 0.19 |
| | | Right side | 0.271 | 0.051 | 0.32 |
| | | Top side | 0.639 | 0.119 | 0.76 |
| | | Bottom side | | | 0.00 |
| | GSM1900Ant 0 | Front | 0.426 | 0.104 | 0.53 |
| | | Back | 1.125 | 0.149 | 1.27 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| WCDMA | WCDMA VAnt 0 | Front | 0.687 | 0.104 | 0.79 |
| | | Back | 1.257 | 0.149 | 1.41 |
| | | Left side | 0.193 | 0.074 | 0.27 |
| | | Right side | 0.235 | 0.051 | 0.29 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | 0.606 | | 0.61 |
| | WCDMA VAnt 1 | Front | 0.588 | 0.104 | 0.69 |
| | | Back | 1.101 | 0.149 | 1.25 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | WCDMA IVAnt 0 | Front | 0.665 | 0.104 | 0.77 |
| | | Back | 1.103 | 0.149 | 1.25 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | WCDMA IIAnt 0 | Front | 0.578 | 0.104 | 0.68 |
| | | Back | 1.190 | 0.149 | 1.34 |



| | | | | | |
|------------------|------------------|-------------|-------|-------|------|
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| LTE | LTE Band 5Ant 0 | Front | 0.633 | 0.104 | 0.74 |
| | | Back | 1.221 | 0.149 | 1.37 |
| | | Left side | 0.118 | 0.074 | 0.19 |
| | | Right side | 0.224 | 0.051 | 0.28 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | 0.594 | | 0.59 |
| | LTE Band 12Ant 1 | Front | 0.665 | 0.104 | 0.77 |
| | | Back | 1.120 | 0.149 | 1.27 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | LTE Band 26Ant 1 | Front | 0.763 | 0.104 | 0.87 |
| | | Back | 1.048 | 0.149 | 1.20 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | LTE Band 66Ant 0 | Front | 0.551 | 0.104 | 0.66 |
| | | Back | 1.135 | 0.149 | 1.28 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | LTE Band 66Ant 1 | Front | 0.642 | 0.104 | 0.75 |
| | | Back | 1.090 | 0.149 | 1.24 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | LTE Band 2Ant 0 | Front | 0.510 | 0.104 | 0.61 |
| | | Back | 1.111 | 0.149 | 1.26 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | LTE Band 7Ant 0 | Front | 0.462 | 0.104 | 0.57 |
| | | Back | 1.233 | 0.149 | 1.38 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| Top side | | | 0.119 | 0.12 | |
| Bottom side | | | | 0.00 | |
| LTE Band 7Ant 1 | Front | 0.862 | 0.104 | 0.97 | |
| | Back | 1.201 | 0.149 | 1.35 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| | Bottom side | | | 0.00 | |
| LTE Band 41Ant 0 | Front | 0.480 | 0.104 | 0.58 | |
| | Back | 1.030 | 0.149 | 1.18 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |



| | | | | | |
|------------------|------------------|-------------|-------|-------|------|
| FR 1 | LTE Band 42Ant 3 | Top side | | 0.119 | 0.12 |
| | | Bottom side | | | 0.00 |
| | | Front | 0.294 | 0.104 | 0.40 |
| | | Back | 1.244 | 0.149 | 1.39 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | Bottom side | | | 0.00 | |
| | FR1 n5Ant 1 | Front | 0.728 | 0.104 | 0.83 |
| | | Back | 1.076 | 0.149 | 1.23 |
| | | Left side | | 0.074 | 0.07 |
| | | Right side | | 0.051 | 0.05 |
| | | Top side | | 0.119 | 0.12 |
| | Bottom side | | | 0.00 | |
| FR1 n66Ant 0 | Front | 0.716 | 0.104 | 0.82 | |
| | Back | 1.167 | 0.149 | 1.32 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n66Ant 1 | Front | 0.628 | 0.104 | 0.73 | |
| | Back | 1.202 | 0.149 | 1.35 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n7Ant 0 | Front | 0.459 | 0.104 | 0.56 | |
| | Back | 1.225 | 0.149 | 1.37 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n41-PC3Ant 0 | Front | 0.511 | 0.104 | 0.62 | |
| | Back | 1.149 | 0.149 | 1.30 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n41-PC2Ant 0 | Front | 0.511 | 0.104 | 0.62 | |
| | Back | 1.149 | 0.149 | 1.30 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n78-PC3Ant 3 | Front | 0.203 | 0.104 | 0.31 | |
| | Back | 0.746 | 0.149 | 0.90 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |
| FR1 n78-PC2Ant 3 | Front | 0.205 | 0.104 | 0.31 | |
| | Back | 0.746 | 0.149 | 0.90 | |
| | Left side | | 0.074 | 0.07 | |
| | Right side | | 0.051 | 0.05 | |
| | Top side | | 0.119 | 0.12 | |
| Bottom side | | | 0.00 | | |



| WWAN Band | Exposure Position | 1 | 5 | 8 | 9 | 1+5 Summed 1g SAR (W/kg) | SPLSR | Case No | 1+8 Summed 1g SAR (W/kg) | 1+8+9 Summed 1g SAR (W/kg) | SPLSR | Case No | |
|----------------|-------------------|---------------|---------------------|--------------------|-----------------|--------------------------|-------|---------|--------------------------|----------------------------|-------|---------|----|
| | | WWAN | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+12 | Bluetooth Ant 2 | | | | | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | |
| GSM | GSM850Ant 0 | Front | 1.031 | 0.206 | 0.070 | 0.104 | 1.24 | | | 1.10 | 1.21 | | |
| | | Back | 1.233 | 0.437 | 0.300 | 0.149 | 1.67 | 0.02 | #1 | 1.53 | 1.68 | 0.02 | #4 |
| | | Left side | 0.231 | 0.051 | 0.033 | 0.074 | 0.28 | | | 0.26 | 0.34 | | |
| | | Right side | 0.434 | | 0.058 | 0.051 | 0.43 | | | 0.49 | 0.54 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 0.910 | | | | 0.91 | | | 0.91 | 0.91 | | |
| | GSM850Ant 1 | Front | 0.447 | 0.206 | 0.070 | 0.104 | 0.65 | | | 0.52 | 0.62 | | |
| | | Back | 0.828 | 0.437 | 0.300 | 0.149 | 1.27 | | | 1.13 | 1.28 | | |
| | | Left side | 0.113 | 0.051 | 0.033 | 0.074 | 0.16 | | | 0.15 | 0.22 | | |
| | | Right side | 0.271 | | 0.058 | 0.051 | 0.27 | | | 0.33 | 0.38 | | |
| | | Top side | 0.639 | 0.288 | 0.120 | 0.119 | 0.93 | | | 0.76 | 0.88 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | GSM1900 Ant 0 | Front | 0.298 | 0.206 | 0.070 | 0.104 | 0.50 | | | 0.37 | 0.47 | | |
| | | Back | 0.735 | 0.437 | 0.300 | 0.149 | 1.17 | | | 1.04 | 1.18 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.220 | | | | 1.22 | | | 1.22 | 1.22 | | |
| WCDMA | WCDMA V Ant 0 | Front | 0.687 | 0.206 | 0.070 | 0.104 | 0.89 | | | 0.76 | 0.86 | | |
| | | Back | 1.257 | 0.437 | 0.300 | 0.149 | 1.69 | 0.02 | #2 | 1.56 | 1.71 | 0.02 | #5 |
| | | Left side | 0.193 | 0.051 | 0.033 | 0.074 | 0.24 | | | 0.23 | 0.30 | | |
| | | Right side | 0.235 | | 0.058 | 0.051 | 0.24 | | | 0.29 | 0.34 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 0.606 | | | | 0.61 | | | 0.61 | 0.61 | | |
| | WCDMA V Ant 1 | Front | 0.729 | 0.206 | 0.070 | 0.104 | 0.94 | | | 0.80 | 0.90 | | |
| | | Back | 0.967 | 0.437 | 0.300 | 0.149 | 1.40 | | | 1.27 | 1.42 | | |
| | | Left side | 0.122 | 0.051 | 0.033 | 0.074 | 0.17 | | | 0.16 | 0.23 | | |
| | | Right side | 0.282 | | 0.058 | 0.051 | 0.28 | | | 0.34 | 0.39 | | |
| | | Top side | 0.805 | 0.288 | 0.120 | 0.119 | 1.09 | | | 0.93 | 1.04 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | WCDMA IV Ant 0 | Front | 0.438 | 0.206 | 0.070 | 0.104 | 0.64 | | | 0.51 | 0.61 | | |
| | | Back | 0.724 | 0.437 | 0.300 | 0.149 | 1.16 | | | 1.02 | 1.17 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.056 | | 0.058 | 0.051 | 0.06 | | | 0.11 | 0.17 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.112 | | | | 1.11 | | | 1.11 | 1.11 | | |
| WCDMA II Ant 0 | Front | 0.396 | 0.206 | 0.070 | 0.104 | 0.60 | | | 0.47 | 0.57 | | | |
| | Back | 0.702 | 0.437 | 0.300 | 0.149 | 1.14 | | | 1.00 | 1.15 | | | |
| | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | | |
| | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | | |
| | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | | |
| | Bottom side | 1.203 | | | | 1.20 | | | 1.20 | 1.20 | | | |
| LTE | LTE Band 5Ant 0 | Front | 0.633 | 0.206 | 0.070 | 0.104 | 0.84 | | | 0.70 | 0.81 | | |
| | | Back | 1.221 | 0.437 | 0.300 | 0.149 | 1.66 | 0.02 | #3 | 1.52 | 1.67 | 0.02 | #6 |
| | | Left side | 0.118 | 0.051 | 0.033 | 0.074 | 0.17 | | | 0.15 | 0.23 | | |
| | | Right side | 0.224 | | 0.058 | 0.051 | 0.22 | | | 0.28 | 0.33 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 0.594 | | | | 0.59 | | | 0.59 | 0.59 | | |
| | LTE Band 12 Ant 1 | Front | 0.612 | 0.206 | 0.070 | 0.104 | 0.82 | | | 0.68 | 0.79 | | |



| | | | | | | | | | | | | | |
|-------------------|-------------------|-------------|-------|-------|-------|-------|------|--|------|------|------|--|--|
| | LTE Band 26 Ant 1 | Back | 0.826 | 0.437 | 0.300 | 0.149 | 1.26 | | | 1.13 | 1.28 | | |
| | | Left side | 0.186 | 0.051 | 0.033 | 0.074 | 0.24 | | | 0.22 | 0.29 | | |
| | | Right side | 0.506 | | 0.058 | 0.051 | 0.51 | | | 0.56 | 0.62 | | |
| | | Top side | 0.798 | 0.288 | 0.120 | 0.119 | 1.09 | | | 0.92 | 1.04 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | LTE Band 26 Ant 1 | Front | 0.615 | 0.206 | 0.070 | 0.104 | 0.82 | | | 0.69 | 0.79 | | |
| | | Back | 0.934 | 0.437 | 0.300 | 0.149 | 1.37 | | | 1.23 | 1.38 | | |
| | | Left side | 0.076 | 0.051 | 0.033 | 0.074 | 0.13 | | | 0.11 | 0.18 | | |
| | | Right side | 0.220 | | 0.058 | 0.051 | 0.22 | | | 0.28 | 0.33 | | |
| | | Top side | 0.858 | 0.288 | 0.120 | 0.119 | 1.15 | | | 0.98 | 1.10 | | |
| | LTE Band 66 Ant 0 | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | | Front | 0.364 | 0.206 | 0.070 | 0.104 | 0.57 | | | 0.43 | 0.54 | | |
| | | Back | 0.783 | 0.437 | 0.300 | 0.149 | 1.22 | | | 1.08 | 1.23 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.072 | | 0.058 | 0.051 | 0.07 | | | 0.13 | 0.18 | | |
| | LTE Band 66 Ant 1 | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.141 | | | | 1.14 | | | 1.14 | 1.14 | | |
| | | Front | 0.566 | 0.206 | 0.070 | 0.104 | 0.77 | | | 0.64 | 0.74 | | |
| | | Back | 0.876 | 0.437 | 0.300 | 0.149 | 1.31 | | | 1.18 | 1.33 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | LTE Band 66 Ant 1 | Right side | 0.130 | | 0.058 | 0.051 | 0.13 | | | 0.19 | 0.24 | | |
| | | Top side | 0.902 | 0.288 | 0.120 | 0.119 | 1.19 | | | 1.02 | 1.14 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | | Front | 0.333 | 0.206 | 0.070 | 0.104 | 0.54 | | | 0.40 | 0.51 | | |
| | | Back | 0.638 | 0.437 | 0.300 | 0.149 | 1.08 | | | 0.94 | 1.09 | | |
| | LTE Band 2 Ant 0 | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.064 | | | | 1.06 | | | 1.06 | 1.06 | | |
| | | Front | 0.364 | 0.206 | 0.070 | 0.104 | 0.57 | | | 0.43 | 0.54 | | |
| | LTE Band 7 Ant 0 | Back | 0.737 | 0.437 | 0.300 | 0.149 | 1.17 | | | 1.04 | 1.19 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.097 | | 0.058 | 0.051 | 0.10 | | | 0.16 | 0.21 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.139 | | | | 1.14 | | | 1.14 | 1.14 | | |
| | LTE Band 7 Ant 1 | Front | 0.962 | 0.206 | 0.070 | 0.104 | 1.17 | | | 1.03 | 1.14 | | |
| | | Back | 0.682 | 0.437 | 0.300 | 0.149 | 1.12 | | | 0.98 | 1.13 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.155 | | 0.058 | 0.051 | 0.16 | | | 0.21 | 0.26 | | |
| | | Top side | 1.187 | 0.288 | 0.120 | 0.119 | 1.48 | | | 1.31 | 1.43 | | |
| | LTE Band 41 Ant 0 | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | | Front | 0.346 | 0.206 | 0.070 | 0.104 | 0.55 | | | 0.42 | 0.52 | | |
| | | Back | 0.786 | 0.437 | 0.300 | 0.149 | 1.22 | | | 1.09 | 1.24 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.168 | | 0.058 | 0.051 | 0.17 | | | 0.23 | 0.28 | | |
| LTE Band 42 Ant 3 | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | | |
| | Bottom side | 1.057 | | | | 1.06 | | | 1.06 | 1.06 | | | |
| | Front | 0.243 | 0.206 | 0.070 | 0.104 | 0.45 | | | 0.31 | 0.42 | | | |
| | Back | 0.938 | 0.437 | 0.300 | 0.149 | 1.38 | | | 1.24 | 1.39 | | | |
| | Left side | 0.585 | 0.051 | 0.033 | 0.074 | 0.64 | | | 0.62 | 0.69 | | | |
| FR 1 | FR1 n5 Ant 1 | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | |
| | | Top side | 0.237 | 0.288 | 0.120 | 0.119 | 0.53 | | | 0.36 | 0.48 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | FR1 n5 Ant 1 | Front | 0.454 | 0.206 | 0.070 | 0.104 | 0.66 | | | 0.52 | 0.63 | | |
| | | Back | 0.868 | 0.437 | 0.300 | 0.149 | 1.31 | | | 1.17 | 1.32 | | |
| | | Left side | 0.111 | 0.051 | 0.033 | 0.074 | 0.16 | | | 0.14 | 0.22 | | |



| | | | | | | | | | | | | | |
|-------------------|-------------------|-------------|-------|-------|-------|-------|------|--|------|------|------|--|--|
| | | Right side | 0.235 | | 0.058 | 0.051 | 0.24 | | | 0.29 | 0.34 | | |
| | | Top side | 0.715 | 0.288 | 0.120 | 0.119 | 1.00 | | | 0.84 | 0.95 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | FR1 n66 Ant 0 | Front | 0.447 | 0.206 | 0.070 | 0.104 | 0.65 | | | 0.52 | 0.62 | | |
| | | Back | 0.732 | 0.437 | 0.300 | 0.149 | 1.17 | | | 1.03 | 1.18 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.075 | | 0.058 | 0.051 | 0.08 | | | 0.13 | 0.18 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.201 | | | | 1.20 | | | 1.20 | 1.20 | | |
| | FR1 n66 Ant 1 | Front | 0.494 | 0.206 | 0.070 | 0.104 | 0.70 | | | 0.56 | 0.67 | | |
| | | Back | 0.944 | 0.437 | 0.300 | 0.149 | 1.38 | | | 1.24 | 1.39 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.122 | | 0.058 | 0.051 | 0.12 | | | 0.18 | 0.23 | | |
| | | Top side | 0.876 | 0.288 | 0.120 | 0.119 | 1.16 | | | 1.00 | 1.12 | | |
| | | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | |
| | FR1 n7 Ant 0 | Front | 0.209 | 0.206 | 0.070 | 0.104 | 0.42 | | | 0.28 | 0.38 | | |
| | | Back | 0.790 | 0.437 | 0.300 | 0.149 | 1.23 | | | 1.09 | 1.24 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| | | Right side | 0.108 | | 0.058 | 0.051 | 0.11 | | | 0.17 | 0.22 | | |
| | | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | |
| | | Bottom side | 1.213 | | | | 1.21 | | | 1.21 | 1.21 | | |
| | FR1 n41-PC3 Ant 0 | Front | 0.170 | 0.206 | 0.070 | 0.104 | 0.38 | | | 0.24 | 0.34 | | |
| | | Back | 0.783 | 0.437 | 0.300 | 0.149 | 1.22 | | | 1.08 | 1.23 | | |
| | | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | |
| Right side | | 0.087 | | 0.058 | 0.051 | 0.09 | | | 0.15 | 0.20 | | | |
| Top side | | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | | |
| Bottom side | | 1.152 | | | | 1.15 | | | 1.15 | 1.15 | | | |
| FR1 n41-PC2 Ant 0 | Front | 0.170 | 0.206 | 0.070 | 0.104 | 0.38 | | | 0.24 | 0.34 | | | |
| | Back | 0.783 | 0.437 | 0.300 | 0.149 | 1.22 | | | 1.08 | 1.23 | | | |
| | Left side | | 0.051 | 0.033 | 0.074 | 0.05 | | | 0.03 | 0.11 | | | |
| | Right side | 0.087 | | 0.058 | 0.051 | 0.09 | | | 0.15 | 0.20 | | | |
| | Top side | | 0.288 | 0.120 | 0.119 | 0.29 | | | 0.12 | 0.24 | | | |
| | Bottom side | 1.152 | | | | 1.15 | | | 1.15 | 1.15 | | | |
| FR1 n78-PC3 Ant 3 | Front | 0.162 | 0.206 | 0.070 | 0.104 | 0.37 | | | 0.23 | 0.34 | | | |
| | Back | 0.630 | 0.437 | 0.300 | 0.149 | 1.07 | | | 0.93 | 1.08 | | | |
| | Left side | 0.477 | 0.051 | 0.033 | 0.074 | 0.53 | | | 0.51 | 0.58 | | | |
| | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | | |
| | Top side | 0.164 | 0.288 | 0.120 | 0.119 | 0.45 | | | 0.28 | 0.40 | | | |
| | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | | |
| FR1 n78-PC2 Ant 3 | Front | 0.162 | 0.206 | 0.070 | 0.104 | 0.37 | | | 0.23 | 0.34 | | | |
| | Back | 0.630 | 0.437 | 0.300 | 0.149 | 1.07 | | | 0.93 | 1.08 | | | |
| | Left side | 0.477 | 0.051 | 0.033 | 0.074 | 0.53 | | | 0.51 | 0.58 | | | |
| | Right side | | | 0.058 | 0.051 | 0.00 | | | 0.06 | 0.11 | | | |
| | Top side | 0.164 | 0.288 | 0.120 | 0.119 | 0.45 | | | 0.28 | 0.40 | | | |
| | Bottom side | | | | | 0.00 | | | 0.00 | 0.00 | | | |



17.4 Body-Worn Accessory Exposure Conditions

| Exposure Position | 8 | 9 | 10 | 8+9 Summed 1g SAR (W/kg) | 10+9 Summed 1g SAR (W/kg) |
|-------------------|---|-------------------------------------|--|--------------------------------|---------------------------------|
| | 5GHz WLAN Ant 4+12 1g SAR (W/kg) | Bluetooth Ant 2 1g SAR (W/kg) | 6GHz WLAN Ant 4+12 1g SAR (W/kg) | | |
| Front | 0.170 | 0.104 | 0.005 | 0.27 | 0.11 |
| Back | 1.048 | 0.149 | 0.107 | 1.20 | 0.26 |

| WWAN Band | Exposure Position | 1 | 9 | 1+9 | |
|-----------|-------------------|--------------------|--------------------|---------------|------|
| | | WWAN | Bluetooth Ant 2 | Summed | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | |
| GSM | GSM850Ant 0 | Front | 1.031 | 0.104 | 1.14 |
| | | Back | 1.233 | 0.149 | 1.38 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 0.796 | | 0.80 |
| | GSM850Ant 1 | Front | 0.447 | 0.104 | 0.55 |
| | | Back | 0.828 | 0.149 | 0.98 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | GSM1900Ant 0 | Front | 0.426 | 0.104 | 0.53 |
| | | Back | 1.125 | 0.149 | 1.27 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| WCDMA | WCDMA VAnt 0 | Front | 0.687 | 0.104 | 0.79 |
| | | Back | 1.257 | 0.149 | 1.41 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 0.779 | | 0.78 |
| | WCDMA VAnt 1 | Front | 0.588 | 0.104 | 0.69 |
| | | Back | 1.101 | 0.149 | 1.25 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | WCDMA IVAnt 0 | Front | 0.665 | 0.104 | 0.77 |
| | | Back | 1.103 | 0.149 | 1.25 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | WCDMA IIAnt 0 | Front | 0.578 | 0.104 | 0.68 |
| | | Back | 1.190 | 0.149 | 1.34 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| LTE | LTE Band 5Ant 0 | Front | 0.633 | 0.104 | 0.74 |
| | | Back | 1.221 | 0.149 | 1.37 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 0.683 | | 0.68 |
| | LTE Band 12Ant 1 | Front | 0.665 | 0.104 | 0.77 |
| | | Back | 1.120 | 0.149 | 1.27 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | LTE Band 26Ant 1 | Front | 0.763 | 0.104 | 0.87 |
| | | Back | 1.048 | 0.149 | 1.20 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | LTE Band 66Ant 0 | Front | 0.551 | 0.104 | 0.66 |
| | | Back | 1.135 | 0.149 | 1.28 |
| | | Front with Headset | | | 0.00 |



| | | | | | |
|-------------------|--------------------|--------------------|-------|-------|------|
| | LTE Band 66Ant 1 | Back with Headset | | | 0.00 |
| | | Front | 0.642 | 0.104 | 0.75 |
| | | Back | 1.090 | 0.149 | 1.24 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | LTE Band 2Ant 0 | Front | 0.510 | 0.104 | 0.61 |
| | | Back | 1.111 | 0.149 | 1.26 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | LTE Band 7Ant 0 | Front | 0.462 | 0.104 | 0.57 |
| | | Back | 1.233 | 0.149 | 1.38 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 0.689 | | 0.69 |
| | LTE Band 7Ant 1 | Front | 0.862 | 0.104 | 0.97 |
| | | Back | 1.201 | 0.149 | 1.35 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 1.143 | | 1.14 |
| | LTE Band 41Ant 0 | Front | 0.480 | 0.104 | 0.58 |
| | | Back | 1.030 | 0.149 | 1.18 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | LTE Band 42Ant 3 | Front | 0.294 | 0.104 | 0.40 |
| | | Back | 1.244 | 0.149 | 1.39 |
| | | Front with Headset | | | 0.00 |
| Back with Headset | | 1.191 | | 1.19 | |
| FR 1 | FR1 n5Ant 1 | Front | 0.728 | 0.104 | 0.83 |
| | | Back | 1.076 | 0.149 | 1.23 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | FR1 n66Ant 0 | Front | 0.716 | 0.104 | 0.82 |
| | | Back | 1.167 | 0.149 | 1.32 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | FR1 n66Ant 1 | Front | 0.628 | 0.104 | 0.73 |
| | | Back | 1.202 | 0.149 | 1.35 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 1.156 | | 1.16 |
| | FR1 n7Ant 0 | Front | 0.459 | 0.104 | 0.56 |
| | | Back | 1.225 | 0.149 | 1.37 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | 0.750 | | 0.75 |
| | FR1 n41-PC3Ant 0 | Front | 0.511 | 0.104 | 0.62 |
| | | Back | 1.149 | 0.149 | 1.30 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| | FR1 n41-PC2Ant 0 | Front | 0.511 | 0.104 | 0.62 |
| | | Back | 1.149 | 0.149 | 1.30 |
| | | Front with Headset | | | 0.00 |
| | | Back with Headset | | | 0.00 |
| FR1 n78-PC3Ant 3 | Front | 0.203 | 0.104 | 0.31 | |
| | Back | 0.746 | 0.149 | 0.90 | |
| | Front with Headset | | | 0.00 | |
| | Back with Headset | | | 0.00 | |
| FR1 n78-PC2Ant 3 | Front | 0.205 | 0.104 | 0.31 | |
| | Back | 0.746 | 0.149 | 0.90 | |
| | Front with Headset | | | 0.00 | |
| | Back with Headset | | | 0.00 | |



| WWAN Band | Exposure Position | 1 | 5 | 8 | 9 | 10 | 1+5 | SPLSR | Case No | 1+8 | 1+8+9 | SPLSR | Case No | 1+10 | 1+9+10 | |
|--------------------|-------------------|--------------------|--------------------------|---------------------------|------------------------|---------------------------|---------------|-------|---------|---------------|---------------|-------|---------|------|--------|------|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | 6GHz WLAN | Summed | | | Summed | Summed | | | | | |
| | | 1g SAR (W/kg) | Ant 2+4 1g SAR (W/kg) | Ant 4+12 1g SAR (W/kg) | Ant 2 1g SAR (W/kg) | Ant 4+12 1g SAR (W/kg) | 1g SAR (W/kg) | | | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | |
| GSM | GSM850 Ant 0 | Front | 1.031 | 0.206 | 0.067 | 0.104 | 0.005 | 1.24 | | | 1.10 | 1.20 | | | 1.04 | 1.14 |
| | | Back | 1.233 | 0.437 | 0.305 | 0.149 | 0.107 | 1.67 | 0.02 | #1 | 1.54 | 1.69 | 0.02 | #7 | 1.34 | 1.49 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | 0.796 | | | | | 0.80 | | | 0.80 | 0.80 | | | 0.80 | 0.80 |
| | GSM850 Ant 1 | Front | 0.447 | 0.206 | 0.067 | 0.104 | 0.005 | 0.65 | | | 0.51 | 0.62 | | | 0.45 | 0.56 |
| | | Back | 0.828 | 0.437 | 0.305 | 0.149 | 0.107 | 1.27 | | | 1.13 | 1.28 | | | 0.94 | 1.08 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | GSM1900 Ant 0 | Front | 0.298 | 0.206 | 0.067 | 0.104 | 0.005 | 0.50 | | | 0.37 | 0.47 | | | 0.30 | 0.41 |
| | | Back | 0.735 | 0.437 | 0.305 | 0.149 | 0.107 | 1.17 | | | 1.04 | 1.19 | | | 0.84 | 0.99 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| WCDMA | WCDMA V Ant 0 | Front | 0.687 | 0.206 | 0.067 | 0.104 | 0.005 | 0.89 | | | 0.75 | 0.86 | | | 0.69 | 0.80 |
| | | Back | 1.257 | 0.437 | 0.305 | 0.149 | 0.107 | 1.69 | 0.02 | #2 | 1.56 | 1.71 | 0.02 | #8 | 1.36 | 1.51 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | 0.779 | | | | | 0.78 | | | 0.78 | 0.78 | | | 0.78 | 0.78 |
| | WCDMA V Ant 1 | Front | 0.729 | 0.206 | 0.067 | 0.104 | 0.005 | 0.94 | | | 0.80 | 0.90 | | | 0.73 | 0.84 |
| | | Back | 0.967 | 0.437 | 0.305 | 0.149 | 0.107 | 1.40 | | | 1.27 | 1.42 | | | 1.07 | 1.22 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | WCDMA IV Ant 0 | Front | 0.438 | 0.206 | 0.067 | 0.104 | 0.005 | 0.64 | | | 0.51 | 0.61 | | | 0.44 | 0.55 |
| | | Back | 0.724 | 0.437 | 0.305 | 0.149 | 0.107 | 1.16 | | | 1.03 | 1.18 | | | 0.83 | 0.98 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | WCDMA II Ant 0 | Front | 0.396 | 0.206 | 0.067 | 0.104 | 0.005 | 0.60 | | | 0.46 | 0.57 | | | 0.40 | 0.51 |
| | | Back | 0.702 | 0.437 | 0.305 | 0.149 | 0.107 | 1.14 | | | 1.01 | 1.16 | | | 0.81 | 0.96 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| LTE | LTE Band 5 Ant 0 | Front | 0.633 | 0.206 | 0.067 | 0.104 | 0.005 | 0.84 | | | 0.70 | 0.80 | | | 0.64 | 0.74 |
| | | Back | 1.221 | 0.437 | 0.305 | 0.149 | 0.107 | 1.66 | 0.02 | #3 | 1.53 | 1.68 | 0.02 | #9 | 1.33 | 1.48 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | 0.683 | | | | | 0.68 | | | 0.68 | 0.68 | | | 0.68 | 0.68 |
| | LTE Band 12 Ant 1 | Front | 0.612 | 0.206 | 0.067 | 0.104 | 0.005 | 0.82 | | | 0.68 | 0.78 | | | 0.62 | 0.72 |
| | | Back | 0.826 | 0.437 | 0.305 | 0.149 | 0.107 | 1.26 | | | 1.13 | 1.28 | | | 0.93 | 1.08 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | LTE Band 26 Ant 1 | Front | 0.615 | 0.206 | 0.067 | 0.104 | 0.005 | 0.82 | | | 0.68 | 0.79 | | | 0.62 | 0.72 |
| | | Back | 0.934 | 0.437 | 0.305 | 0.149 | 0.107 | 1.37 | | | 1.24 | 1.39 | | | 1.04 | 1.19 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | LTE Band 66 Ant 0 | Front | 0.364 | 0.206 | 0.067 | 0.104 | 0.005 | 0.57 | | | 0.43 | 0.54 | | | 0.37 | 0.47 |
| | | Back | 0.783 | 0.437 | 0.305 | 0.149 | 0.107 | 1.22 | | | 1.09 | 1.24 | | | 0.89 | 1.04 |
| | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | LTE Band 66 Ant 1 | Front | 0.566 | 0.206 | 0.067 | 0.104 | 0.005 | 0.77 | | | 0.63 | 0.74 | | | 0.57 | 0.68 |
| | | Back | 0.876 | 0.437 | 0.305 | 0.149 | 0.107 | 1.31 | | | 1.18 | 1.33 | | | 0.98 | 1.13 |
| Front with Headset | | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| Back with Headset | | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| LTE Band 2 Ant 0 | Front | 0.333 | 0.206 | 0.067 | 0.104 | 0.005 | 0.54 | | | 0.40 | 0.50 | | | 0.34 | 0.44 | |
| | Back | 0.638 | 0.437 | 0.305 | 0.149 | 0.107 | 1.08 | | | 0.94 | 1.09 | | | 0.75 | 0.89 | |



| | | | | | | | | | | | | | | | | | |
|----------------------|----------------------|--------------------|--------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| FR 1 | LTE Band 7 Ant 0 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | LTE Band 7 Ant 0 | Front | 0.364 | 0.206 | 0.067 | 0.104 | 0.005 | 0.57 | | | 0.43 | 0.54 | | | 0.37 | 0.47 | |
| | | Back | 0.737 | 0.437 | 0.305 | 0.149 | 0.107 | 1.17 | | | 1.04 | 1.19 | | | 0.84 | 0.99 | |
| | LTE Band 7 Ant 1 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | LTE Band 7 Ant 1 | Front | 0.962 | 0.206 | 0.067 | 0.104 | 0.005 | 1.17 | | | 1.03 | 1.13 | | | 0.97 | 1.07 | |
| | | Back | 0.682 | 0.437 | 0.305 | 0.149 | 0.107 | 1.12 | | | 0.99 | 1.14 | | | 0.79 | 0.94 | |
| | LTE Band 41 Ant 0 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | LTE Band 41 Ant 0 | Front | 0.346 | 0.206 | 0.067 | 0.104 | 0.005 | 0.55 | | | 0.41 | 0.52 | | | 0.35 | 0.46 | |
| | | Back | 0.786 | 0.437 | 0.305 | 0.149 | 0.107 | 1.22 | | | 1.09 | 1.24 | | | 0.89 | 1.04 | |
| | LTE Band 42 Ant 3 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | LTE Band 42 Ant 3 | Front | 0.243 | 0.206 | 0.067 | 0.104 | 0.005 | 0.45 | | | 0.31 | 0.41 | | | 0.25 | 0.35 | |
| | | Back | 0.938 | 0.437 | 0.305 | 0.149 | 0.107 | 1.38 | | | 1.24 | 1.39 | | | 1.05 | 1.19 | |
| | FR 1 | FR1 n5 Ant 1 | Front | 0.454 | 0.206 | 0.067 | 0.104 | 0.005 | 0.66 | | | 0.52 | 0.63 | | | 0.46 | 0.56 |
| | | | Back | 0.868 | 0.437 | 0.305 | 0.149 | 0.107 | 1.31 | | | 1.17 | 1.32 | | | 0.98 | 1.12 |
| | | FR1 n66 Ant 0 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | FR1 n66 Ant 0 | Front | 0.447 | 0.206 | 0.067 | 0.104 | 0.005 | 0.65 | | | 0.51 | 0.62 | | | 0.45 | 0.56 |
| | | | Back | 0.732 | 0.437 | 0.305 | 0.149 | 0.107 | 1.17 | | | 1.04 | 1.19 | | | 0.84 | 0.99 |
| | | FR1 n66 Ant 1 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| | | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 |
| FR1 n66 Ant 1 | | Front | 0.494 | 0.206 | 0.067 | 0.104 | 0.005 | 0.70 | | | 0.56 | 0.67 | | | 0.50 | 0.60 | |
| | | Back | 0.944 | 0.437 | 0.305 | 0.149 | 0.107 | 1.38 | | | 1.25 | 1.40 | | | 1.05 | 1.20 | |
| FR1 n7 Ant 0 | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| FR1 n7 Ant 0 | | Front | 0.209 | 0.206 | 0.067 | 0.104 | 0.005 | 0.42 | | | 0.28 | 0.38 | | | 0.21 | 0.32 | |
| | | Back | 0.790 | 0.437 | 0.305 | 0.149 | 0.107 | 1.23 | | | 1.10 | 1.24 | | | 0.90 | 1.05 | |
| FR1 n41-PC3 Ant 0 | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| FR1 n41-PC3 Ant 0 | | Front | 0.170 | 0.206 | 0.067 | 0.104 | 0.005 | 0.38 | | | 0.24 | 0.34 | | | 0.18 | 0.28 | |
| | | Back | 0.783 | 0.437 | 0.305 | 0.149 | 0.107 | 1.22 | | | 1.09 | 1.24 | | | 0.89 | 1.04 | |
| FR1 n41-PC2 Ant 0 | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| FR1 n41-PC2 Ant 0 | | Front | 0.170 | 0.206 | 0.067 | 0.104 | 0.005 | 0.38 | | | 0.24 | 0.34 | | | 0.18 | 0.28 | |
| | | Back | 0.783 | 0.437 | 0.305 | 0.149 | 0.107 | 1.22 | | | 1.09 | 1.24 | | | 0.89 | 1.04 | |
| FR1 n78-PC3 Ant 3 | | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| | | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | |
| FR1 n78-PC3 Ant 3 | Front | 0.162 | 0.206 | 0.067 | 0.104 | 0.005 | 0.37 | | | 0.23 | 0.33 | | | 0.17 | 0.27 | | |
| | Back | 0.630 | 0.437 | 0.305 | 0.149 | 0.107 | 1.07 | | | 0.94 | 1.08 | | | 0.74 | 0.89 | | |
| FR1 n78-PC2 Ant 3 | Front with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | | |
| | Back with Headset | | | | | | 0.00 | | | 0.00 | 0.00 | | | 0.00 | 0.00 | | |
| FR1 n78-PC2 Ant 3 | Front | 0.162 | 0.206 | 0.067 | 0.104 | 0.005 | 0.37 | | | 0.23 | 0.33 | | | 0.17 | 0.27 | | |
| | Back | 0.630 | 0.437 | 0.305 | 0.149 | 0.107 | 1.07 | | | 0.94 | 1.08 | | | 0.74 | 0.89 | | |



Sensor off

| WWAN Band | | Exposure Position | 1 | 5 | 8 | 1+5 | 1+8 |
|-----------|------------------|-------------------|---------------|---------------------|--------------------|---------------|---------------|
| | | | WWAN | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+12 | Summed | Summed |
| | | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| GSM | GSM850Ant 0 | Front at 15mm | 0.396 | 0.126 | 0.086 | 0.52 | 0.48 |
| | | Back at 20mm | 0.499 | 0.192 | 0.662 | 0.69 | 1.16 |
| | GSM1900Ant 0 | Front at 15mm | 0.253 | 0.126 | 0.086 | 0.38 | 0.34 |
| | | Back at 20mm | 0.414 | 0.192 | 0.662 | 0.61 | 1.08 |
| WCDMA | WCDMA VAnt 0 | Front at 15mm | 0.158 | 0.126 | 0.086 | 0.28 | 0.24 |
| | | Back at 20mm | 0.307 | 0.192 | 0.662 | 0.50 | 0.97 |
| | WCDMA VAnt 1 | Front at 15mm | 0.228 | 0.126 | 0.086 | 0.35 | 0.31 |
| | | Back at 20mm | 0.192 | 0.192 | 0.662 | 0.38 | 0.85 |
| | WCDMA IVAnt 0 | Front at 15mm | 0.649 | 0.126 | 0.086 | 0.78 | 0.74 |
| | | Back at 20mm | 0.620 | 0.192 | 0.662 | 0.81 | 1.28 |
| | WCDMA IIAnt 0 | Front at 15mm | 0.760 | 0.126 | 0.086 | 0.89 | 0.85 |
| | | Back at 20mm | 0.725 | 0.192 | 0.662 | 0.92 | 1.39 |
| LTE | LTE Band 12Ant 1 | Front at 15mm | 0.238 | 0.126 | 0.086 | 0.36 | 0.32 |
| | | Back at 20mm | 0.261 | 0.192 | 0.662 | 0.45 | 0.92 |
| | LTE Band 26Ant 1 | Front at 15mm | 0.241 | 0.126 | 0.086 | 0.37 | 0.33 |
| | | Back at 20mm | 0.230 | 0.192 | 0.662 | 0.42 | 0.89 |
| | LTE Band 66Ant 0 | Front at 15mm | 0.577 | 0.126 | 0.086 | 0.70 | 0.66 |
| | | Back at 20mm | 0.725 | 0.192 | 0.662 | 0.92 | 1.39 |
| | LTE Band 66Ant 1 | Front at 15mm | 0.358 | 0.126 | 0.086 | 0.48 | 0.44 |
| | | Back at 20mm | 0.319 | 0.192 | 0.662 | 0.51 | 0.98 |
| | LTE Band 2Ant 0 | Front at 15mm | 0.666 | 0.126 | 0.086 | 0.79 | 0.75 |
| | | Back at 20mm | 0.726 | 0.192 | 0.662 | 0.92 | 1.39 |
| | LTE Band 7Ant 0 | Front at 15mm | 0.431 | 0.126 | 0.086 | 0.56 | 0.52 |
| | | Back at 20mm | 0.576 | 0.192 | 0.662 | 0.77 | 1.24 |
| | LTE Band 7Ant 1 | Front at 15mm | 0.219 | 0.126 | 0.086 | 0.35 | 0.31 |
| | | Back at 20mm | 0.275 | 0.192 | 0.662 | 0.47 | 0.94 |
| | LTE Band 41Ant 0 | Front at 15mm | 0.398 | 0.126 | 0.086 | 0.52 | 0.48 |
| | | Back at 20mm | 0.449 | 0.192 | 0.662 | 0.64 | 1.11 |
| | LTE Band 42Ant 3 | Front at 15mm | 0.223 | 0.126 | 0.086 | 0.35 | 0.31 |
| | | Back at 20mm | 0.503 | 0.192 | 0.662 | 0.70 | 1.17 |
| FR 1 | FR1 n5Ant 1 | Front at 15mm | 0.122 | 0.126 | 0.086 | 0.25 | 0.21 |
| | | Back at 20mm | 0.101 | 0.192 | 0.662 | 0.29 | 0.76 |
| | FR1 n66Ant 0 | Front at 15mm | 0.510 | 0.126 | 0.086 | 0.64 | 0.60 |
| | | Back at 20mm | 0.461 | 0.192 | 0.662 | 0.65 | 1.12 |
| | FR1 n66Ant 1 | Front at 15mm | 1.000 | 0.126 | 0.086 | 1.13 | 1.09 |
| | | Back at 20mm | 0.547 | 0.192 | 0.662 | 0.74 | 1.21 |
| | FR1 n7Ant 0 | Front at 15mm | 0.299 | 0.126 | 0.086 | 0.43 | 0.39 |
| | | Back at 20mm | 0.309 | 0.192 | 0.662 | 0.50 | 0.97 |
| | FR1 n41-PC2Ant 0 | Front at 15mm | 0.724 | 0.126 | 0.086 | 0.85 | 0.81 |
| | | Back at 20mm | 0.851 | 0.192 | 0.662 | 1.04 | 1.51 |
| | FR1 n78-PC2Ant 3 | Front at 15mm | 0.222 | 0.126 | 0.086 | 0.35 | 0.31 |
| | | Back at 20mm | 0.335 | 0.192 | 0.662 | 0.53 | 1.00 |



17.5 Product specific 10g SAR Exposure Conditions

| WWAN Band | Exposure Position | 1 | 4 | 7 | 9 | 1+4 Summed 10g SAR (W/kg) | 1+7 Summed 10g SAR (W/kg) | SPLSR | Case No | 1+9 Summed 10g SAR (W/kg) | |
|-----------|-------------------|----------------|---------------------|--------------------|--------------------|---------------------------|---------------------------|-------|---------|---------------------------|------|
| | | WWAN | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+12 | 6GHz WLAN Ant 4+12 | | | | | | |
| | | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | | | | | | |
| GSM | GSM850Ant 0 | Front | 0.631 | | 0.359 | 0.008 | 0.63 | 0.99 | | | 0.64 |
| | | Back | 0.681 | 1.007 | 1.193 | 0.040 | 1.69 | 1.87 | | | 0.72 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | GSM1900Ant 0 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 |
| | | Back | 1.990 | 1.007 | 1.193 | 0.040 | 3.00 | 3.18 | | | 2.03 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.245 | | | | 2.25 | 2.25 | | | 2.25 |
| WCDMA | WCDMA VAnt 0 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 |
| | | Back | 2.909 | 1.007 | 1.193 | 0.040 | 3.92 | 4.10 | 0.06 | #10 | 2.95 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | WCDMA VAnt 1 | Front | 1.706 | | 0.359 | 0.008 | 1.71 | 2.07 | | | 1.71 |
| | | Back | 1.143 | 1.007 | 1.193 | 0.040 | 2.15 | 2.34 | | | 1.18 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | 2.611 | | 0.255 | 0.016 | 2.61 | 2.87 | | | 2.63 |
| | | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | WCDMA IVAnt 0 | Front | 1.391 | | 0.359 | 0.008 | 1.39 | 1.75 | | | 1.40 |
| | | Back | 2.394 | 1.007 | 1.193 | 0.040 | 3.40 | 3.59 | | | 2.43 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.682 | | | | 2.68 | 2.68 | | | 2.68 |
| | WCDMA IIAnt 0 | Front | 1.476 | | 0.359 | 0.008 | 1.48 | 1.84 | | | 1.48 |
| | | Back | 2.659 | 1.007 | 1.193 | 0.040 | 3.67 | 3.85 | | | 2.70 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.900 | | | | 2.90 | 2.90 | | | 2.90 |
| LTE | LTE Band 5Ant 0 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 |
| | | Back | 1.168 | 1.007 | 1.193 | 0.040 | 2.18 | 2.36 | | | 1.21 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | LTE Band 26Ant 1 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 |
| | | Back | 1.141 | 1.007 | 1.193 | 0.040 | 2.15 | 2.33 | | | 1.18 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | 2.402 | | 0.255 | 0.016 | 2.40 | 2.66 | | | 2.42 |
| | | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | LTE Band 66Ant 0 | Front | 1.499 | | 0.359 | 0.008 | 1.50 | 1.86 | | | 1.51 |



| | | | | | | | | | | | |
|---------------|-------------------|-------------|-------|-------|-------|-------|------|------|------|------|------|
| FR 1 | LTE Band 66 Ant 1 | Back | 2.900 | 1.007 | 1.193 | 0.040 | 3.91 | 4.09 | 0.06 | #11 | 2.94 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.932 | | | | 2.93 | 2.93 | | | 2.93 |
| | LTE Band 2Ant 0 | Front | 1.934 | | 0.359 | 0.008 | 1.93 | 2.29 | | | 1.94 |
| | | Back | 1.245 | 1.007 | 1.193 | 0.040 | 2.25 | 2.44 | | | 1.29 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | 2.776 | | 0.255 | 0.016 | 2.78 | 3.03 | | | 2.79 |
| | LTE Band 7Ant 0 | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Front | 1.605 | | 0.359 | 0.008 | 1.61 | 1.96 | | | 1.61 |
| | | Back | 2.459 | 1.007 | 1.193 | 0.040 | 3.47 | 3.65 | | | 2.50 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | LTE Band 7Ant 1 | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.457 | | | | 2.46 | 2.46 | | | 2.46 |
| | | Front | 1.412 | | 0.359 | 0.008 | 1.41 | 1.77 | | | 1.42 |
| | | Back | 2.945 | 1.007 | 1.193 | 0.040 | 3.95 | 4.14 | 0.06 | #12 | 2.99 |
| | | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | LTE Band 41Ant 0 | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| | | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 |
| | | Bottom side | 2.800 | | | | 2.80 | 2.80 | | | 2.80 |
| | | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 |
| | | Back | 0.977 | 1.007 | 1.193 | 0.040 | 1.98 | 2.17 | | | 1.02 |
| | LTE Band 42 Ant 3 | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 |
| | | Right side | | | | | 0.00 | 0.00 | | | 0.00 |
| Top side | | 2.777 | | 0.255 | 0.016 | 2.78 | 3.03 | | | 2.79 | |
| Bottom side | | | | | | 0.00 | 0.00 | | | 0.00 | |
| Front | | 0.680 | | 0.359 | 0.008 | 0.68 | 1.04 | | | 0.69 | |
| FR1 n66Ant 0 | Back | 2.251 | 1.007 | 1.193 | 0.040 | 3.26 | 3.44 | | | 2.29 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |
| | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| | Bottom side | 1.853 | | | | 1.85 | 1.85 | | | 1.85 | |
| FR1 n66 Ant 1 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 | |
| | Back | 2.747 | 1.007 | 1.193 | 0.040 | 3.75 | 3.94 | | | 2.79 | |
| | Left side | 1.805 | | 0.094 | 0.001 | 1.81 | 1.90 | | | 1.81 | |
| | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| FR1 n7Ant 0 | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Front | 1.936 | | 0.359 | 0.008 | 1.94 | 2.30 | | | 1.94 | |
| | Back | 2.951 | 1.007 | 1.193 | 0.040 | 3.96 | 4.14 | 0.06 | #14 | 2.99 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |
| | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| FR1 n7Ant 0 | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| | Bottom side | 2.842 | | | | 2.84 | 2.84 | | | 2.84 | |
| | Front | 2.223 | | 0.359 | 0.008 | 2.22 | 2.58 | | | 2.23 | |
| | Back | 1.289 | 1.007 | 1.193 | 0.040 | 2.30 | 2.48 | | | 1.33 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |
| FR1 n7Ant 0 | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | 2.620 | | 0.255 | 0.016 | 2.62 | 2.88 | | | 2.64 | |
| | Bottom side | | | | | 0.00 | 0.00 | | | 0.00 | |
| FR1 n7Ant 0 | Front | | | 0.359 | 0.008 | 0.00 | 0.36 | | | 0.01 | |
| | Back | 2.931 | 1.007 | 1.193 | 0.040 | 3.94 | 4.12 | 0.06 | #15 | 2.97 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |



| | | | | | | | | | | | |
|-------------------|-------------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| FR1 n41-PC3Ant 0 | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| | Bottom side | 1.871 | | | | 1.87 | 1.87 | | | 1.87 | |
| | Front | 1.629 | | 0.359 | 0.008 | 1.63 | 1.99 | | | 1.64 | |
| | Back | 2.837 | 1.007 | 1.193 | 0.040 | 3.84 | 4.03 | 0.06 | #16 | 2.88 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |
| | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| | Bottom side | 2.669 | | | | 2.67 | 2.67 | | | 2.67 | |
| | FR1 n41-PC2Ant 0 | Front | 1.629 | | 0.359 | 0.008 | 1.63 | 1.99 | | | 1.64 |
| | Back | 2.837 | 1.007 | 1.193 | 0.040 | 3.84 | 4.03 | 0.06 | #16 | 2.88 | |
| | Left side | | | 0.094 | 0.001 | 0.00 | 0.09 | | | 0.00 | |
| | Right side | | | | | 0.00 | 0.00 | | | 0.00 | |
| | Top side | | | 0.255 | 0.016 | 0.00 | 0.26 | | | 0.02 | |
| | Bottom side | 2.669 | | | | 2.67 | 2.67 | | | 2.67 | |
| | FR1 n78-PC3 Ant 3 | Front | 1.625 | | 0.359 | 0.008 | 1.63 | 1.98 | | | 1.63 |
| | Back | 2.645 | 1.007 | 1.193 | 0.040 | 3.65 | 3.84 | | | 2.69 | |
| | Left side | 1.713 | | 0.094 | 0.001 | 1.71 | 1.81 | | | 1.71 | |
| Right side | | | | | 0.00 | 0.00 | | | 0.00 | | |
| Top side | 1.518 | | 0.255 | 0.016 | 1.52 | 1.77 | | | 1.53 | | |
| Bottom side | | | | | 0.00 | 0.00 | | | 0.00 | | |
| FR1 n78-PC2 Ant 3 | Front | 1.717 | | 0.359 | 0.008 | 1.72 | 2.08 | | | 1.73 | |
| Back | 2.645 | 1.007 | 1.193 | 0.040 | 3.65 | 3.84 | | | 2.69 | | |
| Left side | 1.713 | | 0.094 | 0.001 | 1.71 | 1.81 | | | 1.71 | | |
| Right side | | | | | 0.00 | 0.00 | | | 0.00 | | |
| Top side | 1.604 | | 0.255 | 0.016 | 1.60 | 1.86 | | | 1.62 | | |
| Bottom side | | | | | 0.00 | 0.00 | | | 0.00 | | |

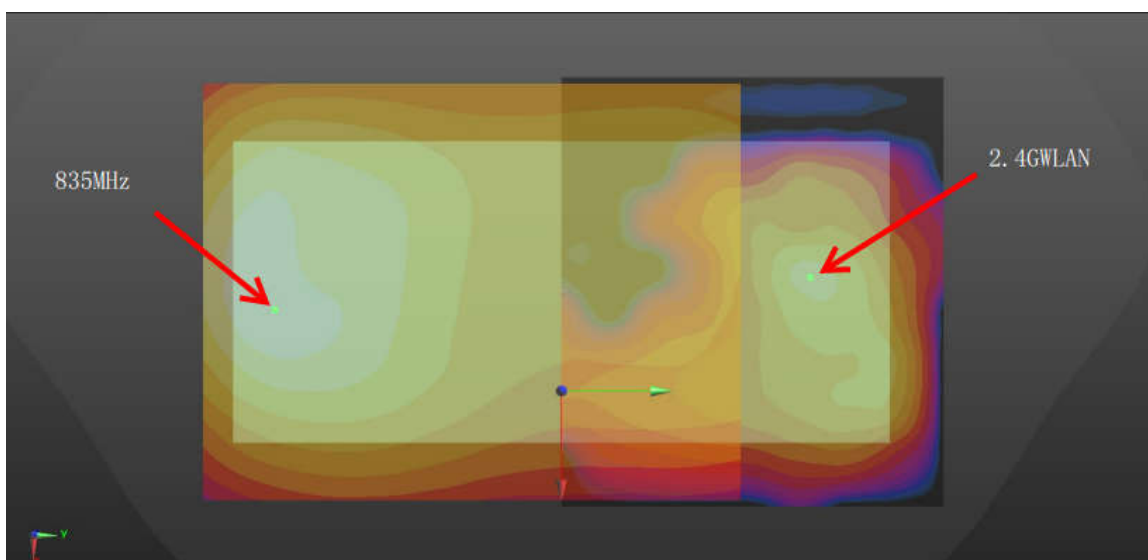
Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

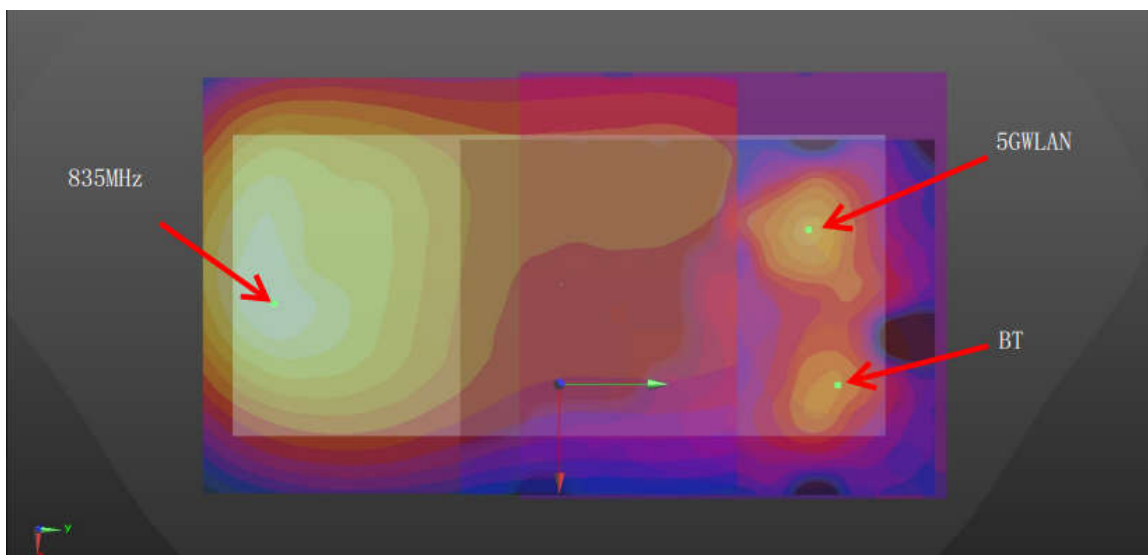
17.6 SPLSR Evaluation and Analysis

General Note:

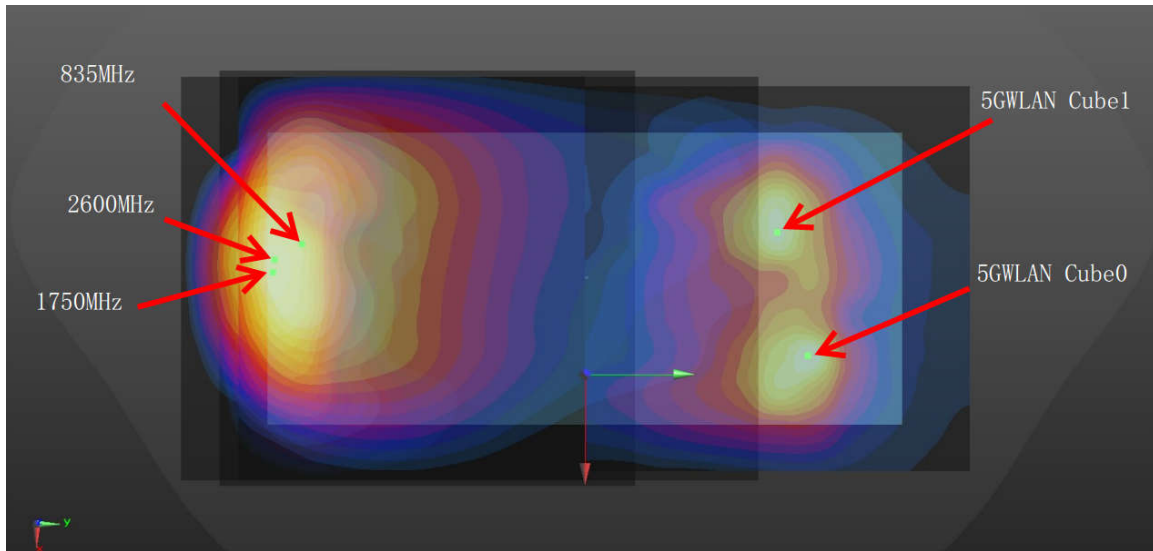
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.



WWAN+WLAN2.4GHz_Back 5mm



WWAN+WLAN5GHz+Bluetooth_Back 5mm



WWAN+WLAN5GHz_Back 0mm

| Hotspot/Body worn WWAN+WLAN2.4GHz_5mm | | | | | | | | | | | | |
|---------------------------------------|------------|-----------|------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|--------------|
| Case No | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| | | | | | X | Y | Z | | | | | |
| Case No 1 | GSM850 | Back | 1.233 | 5 | -0.0205 | -0.077 | -0.209 | 139.6 | 1.67 | 0.02 | Not required | |
| | WLAN2.4GHz | | 0.437 | 5 | -0.0286 | 0.0624 | -0.209 | | | | | |
| Hotspot WWAN+WLAN5GHz+Bluetooth_5mm | | | | | | | | | | | | |
| Case No 2 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (cm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| | | | | | X | Y | Z | | | | | |
| Case No 2 | WCDMA V | Back | 1.257 | 5 | -0.0205 | -0.072 | -0.209 | 134.6 | 1.69 | 0.02 | Not required | |
| | WLAN2.4GHz | | 0.437 | 5 | -0.0286 | 0.0624 | -0.209 | | | | | |
| Case No 3 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (cm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| | | | | | X | Y | Z | | | | | |
| Case No 3 | LTE Band 5 | Back | 1.221 | 5 | -0.019 | -0.0765 | -0.209 | 139.2 | 1.66 | 0.02 | Not required | |
| | WLAN2.4GHz | | 0.437 | 5 | -0.0286 | 0.0624 | -0.209 | | | | | |
| Case No 4 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| | | | | | X | Y | Z | | | | | |
| | Case No 4 | GSM850 | Back | 1.233 | 5 | -0.0205 | -0.077 | -0.209 | 141.7 | 1.53 | 0.01 | Not required |
| | | WLAN5GHz | | 0.3 | 5 | -0.034 | 0.064 | -0.206 | | | | |
| | Case No 4 | GSM850 | Back | 1.233 | 5 | -0.0205 | -0.077 | -0.209 | 147.6 | 1.38 | 0.01 | Not required |
| | | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| Case No 4 | WLAN5GHz | Back | 0.3 | 5 | -0.034 | 0.064 | -0.206 | 14.6 | 0.45 | 0.02 | Not required | |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | | |
| Case No 5 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| | | | | | X | Y | Z | | | | | |
| | Case No 5 | WCDMA V | Back | 1.257 | 5 | -0.0205 | -0.072 | -0.209 | 136.7 | 1.56 | 0.01 | Not required |
| | | WLAN5GHz | | 0.3 | 5 | -0.034 | 0.064 | -0.206 | | | | |
| | Case No 5 | WCDMA V | Back | 1.257 | 5 | -0.0205 | -0.072 | -0.209 | 142.7 | 1.41 | 0.01 | Not required |
| | | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| Case No 5 | WLAN5GHz | Back | 0.3 | 5 | -0.034 | 0.064 | -0.206 | 14.6 | 0.45 | 0.02 | Not required | |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | | |
| Case No 6 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR | |
| Case No 6 | | | | | X | Y | Z | | | | | |



| | | | | | | | | | | | |
|---|-------------|----------|------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
| | LTE Band 5 | Back | 1.221 | 5 | -0.019 | -0.0765 | -0.209 | 141.3 | 1.52 | 0.01 | Not required |
| | WLAN5GHz | | 0.3 | 5 | -0.034 | 0.064 | -0.206 | | | | |
| | LTE Band 5 | Back | 1.221 | 5 | -0.019 | -0.0765 | -0.209 | 147.4 | 1.37 | 0.01 | Not required |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| | WLAN5GHz | Back | 0.3 | 5 | -0.034 | 0.064 | -0.206 | 14.6 | 0.45 | 0.02 | Not required |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| Body worn WWAN+WLAN5GHz+Bluetooth_5mm | | | | | | | | | | | |
| Case No 7 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | GSM850 | Back | 1.233 | 5 | -0.0205 | -0.077 | -0.209 | 141.9 | 1.54 | 0.01 | Not required |
| | WLAN5GHz | | 0.305 | 5 | -0.036 | 0.064 | -0.206 | | | | |
| | GSM850 | Back | 1.233 | 5 | -0.0205 | -0.077 | -0.209 | 147.6 | 1.38 | 0.01 | Not required |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| | WLAN5GHz | Back | 0.305 | 5 | -0.036 | 0.064 | -0.206 | 12.6 | 0.45 | 0.02 | Not required |
| Bluetooth | 0.149 | | 5 | -0.048 | 0.068 | -0.206 | | | | | |
| Case No 8 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | WCDMA V | Back | 1.257 | 5 | -0.0205 | -0.072 | -0.209 | 136.9 | 1.56 | 0.01 | Not required |
| | WLAN5GHz | | 0.305 | 5 | -0.036 | 0.064 | -0.206 | | | | |
| | WCDMA V | Back | 1.257 | 5 | -0.0205 | -0.072 | -0.209 | 142.7 | 1.41 | 0.01 | Not required |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| | WLAN5GHz | Back | 0.305 | 5 | -0.036 | 0.064 | -0.206 | 12.6 | 0.45 | 0.02 | Not required |
| Bluetooth | 0.149 | | 5 | -0.048 | 0.068 | -0.206 | | | | | |
| Case No 9 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | LTE Band 5 | Back | 1.221 | 5 | -0.019 | -0.0765 | -0.209 | 141.6 | 1.53 | 0.01 | Not required |
| | WLAN5GHz | | 0.305 | 5 | -0.036 | 0.064 | -0.206 | | | | |
| | LTE Band 5 | Back | 1.221 | 5 | -0.019 | -0.0765 | -0.209 | 147.4 | 1.37 | 0.01 | Not required |
| | Bluetooth | | 0.149 | 5 | -0.048 | 0.068 | -0.206 | | | | |
| | WLAN5GHz | Back | 0.305 | 5 | -0.036 | 0.064 | -0.206 | 12.6 | 0.45 | 0.02 | Not required |
| Bluetooth | 0.149 | | 5 | -0.048 | 0.068 | -0.206 | | | | | |
| Product specific 10g SAR WWAN+WLAN5GHz_0mm | | | | | | | | | | | |
| Case No 10 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | WCDMA V | Back | 2.909 | 0 | -0.034 | -0.0735 | -0.21 | 132.4 | 4.10 | 0.06 | Not required |
| | WLAN5GHz | | 1.193 | 0 | -0.002 | 0.055 | -0.209 | | | | |
| | WCDMA V | Back | 2.909 | 0 | -0.034 | -0.0735 | -0.21 | 120.6 | 3.93 | 0.06 | Not required |
| WLAN5GHz | 1.019 | | 0 | -0.038 | 0.047 | -0.209 | | | | | |
| Case No 11 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | LTE Band 66 | Back | 2.9 | 0 | -0.0375 | -0.078 | -0.209 | 137.7 | 4.09 | 0.06 | Not required |
| | WLAN5GHz | | 1.193 | 0 | -0.002 | 0.055 | -0.209 | | | | |
| | LTE Band 66 | Back | 2.9 | 0 | -0.0375 | -0.078 | -0.209 | 125.0 | 3.92 | 0.06 | Not required |
| WLAN5GHz | 1.019 | | 0 | -0.038 | 0.047 | -0.209 | | | | | |
| Case No 12 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | LTE Band 7 | Back | 2.945 | 0 | -0.0298 | -0.0806 | -0.209 | 138.4 | 4.14 | 0.06 | Not required |
| | WLAN5GHz | | 1.193 | 0 | -0.002 | 0.055 | -0.209 | | | | |
| | LTE Band 7 | Back | 2.945 | 0 | -0.0298 | -0.0806 | -0.209 | 127.9 | 3.96 | 0.06 | Not required |
| WLAN5GHz | 1.019 | | 0 | -0.038 | 0.047 | -0.209 | | | | | |
| Case No 14 | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
| | FR1 n66 | Back | 2.951 | 0 | -0.0265 | -0.081 | -0.209 | 138.2 | 4.14 | 0.06 | Not required |
| WLAN5GHz | 1.193 | | 0 | -0.002 | 0.055 | -0.209 | | | | | |



| Case No | Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------|----------|----------|------------|----------|------------------------|---------|--------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | FR1 n66 | Back | 2.951 | 0 | -0.0265 | -0.081 | -0.209 | 128.5 | 3.97 | 0.06 | Not required |
| | WLAN5GHz | | 1.019 | 0 | -0.038 | 0.047 | -0.209 | | | | |
| Case No 15 | FR1 n7 | Back | 2.931 | 0 | -0.042 | -0.0818 | -0.209 | 142.5 | 4.12 | 0.06 | Not required |
| | WLAN5GHz | | 1.193 | 0 | -0.002 | 0.055 | -0.209 | | | | |
| | FR1 n7 | Back | 2.931 | 0 | -0.042 | -0.0818 | -0.209 | 128.9 | 3.95 | 0.06 | Not required |
| | WLAN5GHz | | 1.019 | 0 | -0.038 | 0.047 | -0.209 | | | | |
| Case No 16 | FR1 n41 | Back | 2.837 | 0 | -0.0214 | -0.0734 | -0.209 | 129.9 | 4.03 | 0.06 | Not required |
| | WLAN5GHz | | 1.193 | 0 | -0.002 | 0.055 | -0.209 | | | | |
| | FR1 n41 | Back | 2.837 | 0 | -0.0214 | -0.0734 | -0.209 | 121.5 | 3.86 | 0.06 | Not required |
| | WLAN5GHz | | 1.019 | 0 | -0.038 | 0.047 | -0.209 | | | | |

18. Supplemental tuner tests results

General Note:

1. This device implements aperture tuner (17 status) + impedance tuner (144 status) antenna tuning techniques in the WCDMA V, LTE Band 12/26 for ANT1.
2. This device implements impedance tuner (144 status) antenna tuning techniques in the WCDMA IV/II, LTE B66/2/7/41, n66/n7/n41 for ANTO.
3. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
4. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
5. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
6. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
7. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

Test Engineer : Hank Huang, Bin He, David Dai

19. 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 ≤ 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.

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

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

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

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

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

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

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

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

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



| DASY6 Uncertainty Budget (Frequency band: 4 MHz - 10 GHz range) | | | | | | | |
|--|------------------------|-------------|---------|---------|----------|--------------------------------|---------------------------------|
| Error Description | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) |
| Measurement System | | | | | | | |
| Probe Calibration | 18.60 | N | 2 | 1 | 1 | 9.3 | 9.3 |
| Probe Calibration Drift | 1.00 | N | 1 | 1 | 1 | 1.0 | 1.0 |
| Probe Linearity | 4.70 | R | 1.732 | 1 | 1 | 2.7 | 2.7 |
| Broadband Signal | 3.00 | N | 1 | 1 | 1 | 3.0 | 3.0 |
| Probe Isotropy | 7.60 | R | 2 | 1 | 1 | 3.8 | 3.8 |
| Data Acquisition | 0.30 | N | 1.732 | 1 | 1 | 0.2 | 0.2 |
| RF Ambient | 1.80 | N | 1 | 1 | 1 | 1.8 | 1.8 |
| Probe Positioning | 0.20 | N | 1 | 0.33 | 0.33 | 0.1 | 0.1 |
| Data Processing | 3.50 | N | 1 | 1 | 1 | 3.5 | 3.5 |
| Phantom and Device Errors | | | | | | | |
| Conductivity (meas.) DAK | 2.50 | N | 1 | 0.78 | 0.71 | 2.0 | 1.8 |
| Conductivity (temp.) BB | 5.40 | R | 1.732 | 0.78 | 0.71 | 2.4 | 2.2 |
| Phantom Permittivity | 14.00 | R | 1.732 | 0.5 | 0.5 | 4.0 | 4.0 |
| Distance DUT - TSL | 2.00 | N | 1 | 2 | 2 | 4.0 | 4.0 |
| Device Holder | 3.60 | N | 1 | 1 | 1 | 3.6 | 3.6 |
| DUT Modulationm | 2.40 | R | 1.732 | 1 | 1 | 1.4 | 1.4 |
| Time-average SAR | 2.60 | R | 1.732 | 1 | 1 | 1.5 | 1.5 |
| DUT drift | 5.00 | N | 1 | 1 | 1 | 5.0 | 5.0 |
| Correction to the SAR results | | | | | | | |
| Deviation to Target | 1.90 | N | 1 | 1 | 0.84 | 1.9 | 1.6 |
| SAR scalingp | 0.00 | R | 1.732 | 1 | 1 | 0.0 | 0.0 |
| Combined Std. Uncertainty | | | | | | 14.9% | 14.8% |
| Coverage Factor for 95 % | | | | | | K=2 | K=2 |
| Expanded STD Uncertainty | | | | | | 29.8% | 29.6% |

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

20. 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 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015
- [8] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [11] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [12] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [13] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [15] IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, Oct. 2020

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



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-SN:1099

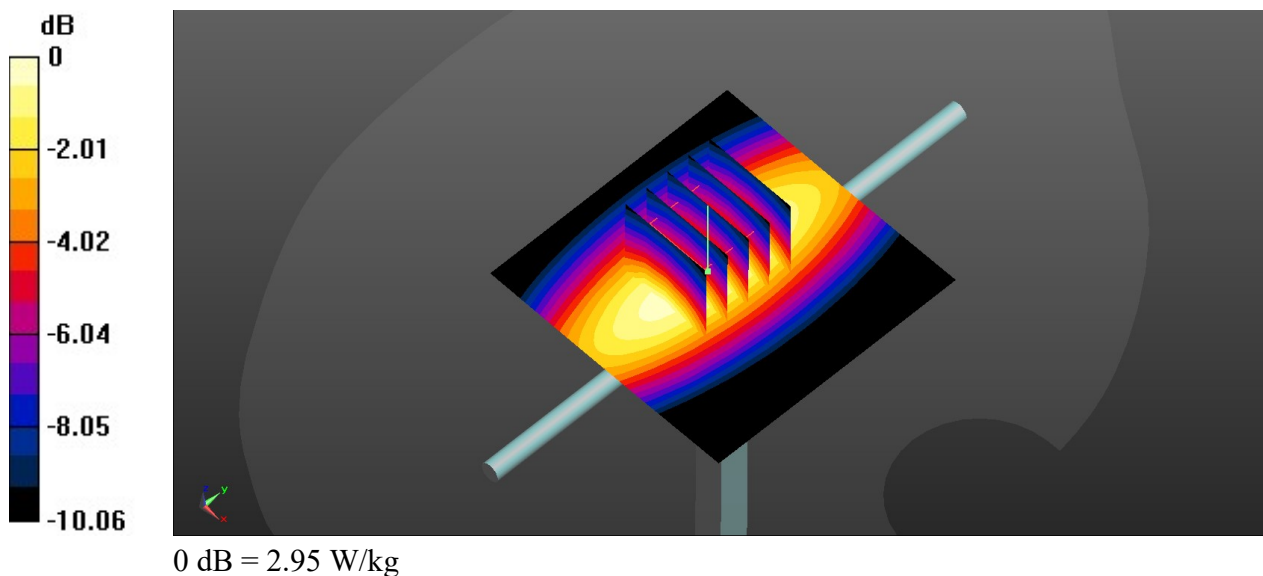
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium: HSL_750_210519 Medium parameters used: $f = 750$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 41.019$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.85, 9.85, 9.85); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 2.93 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.67 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.26 W/kg
SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.48 W/kg
Maximum value of SAR (measured) = 2.95 W/kg



System Check_Head_750MHz

DUT: D750V3-SN:1099

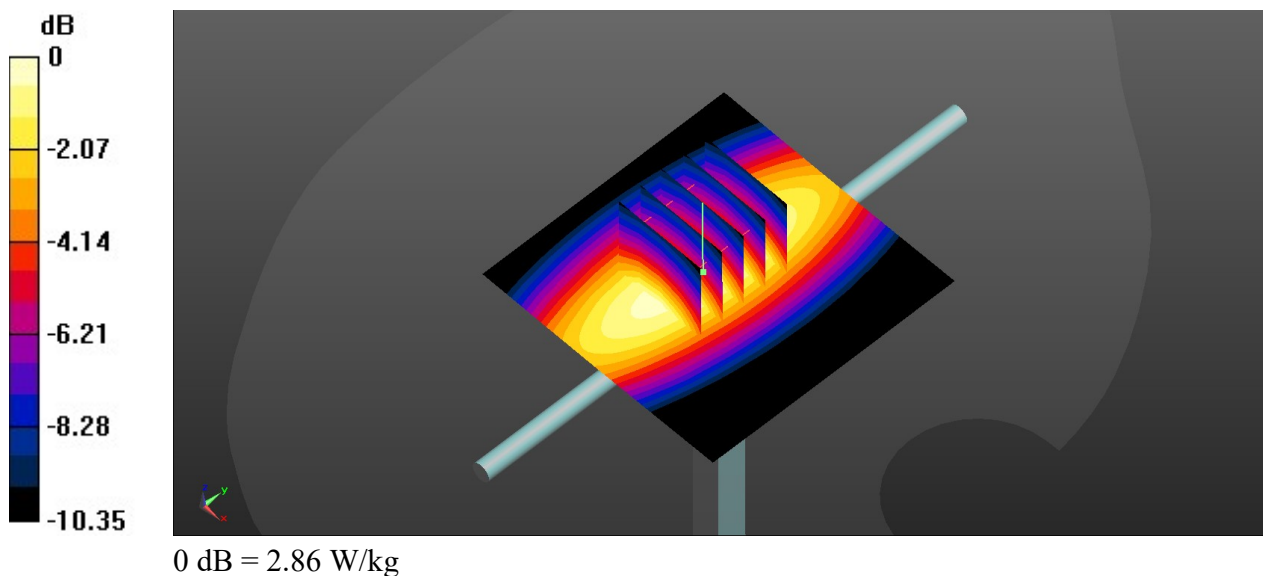
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium: HSL_750_210530 Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 40.797$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.85, 9.85, 9.85); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 2.81 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.69 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.44 W/kg
Maximum value of SAR (measured) = 2.86 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d162

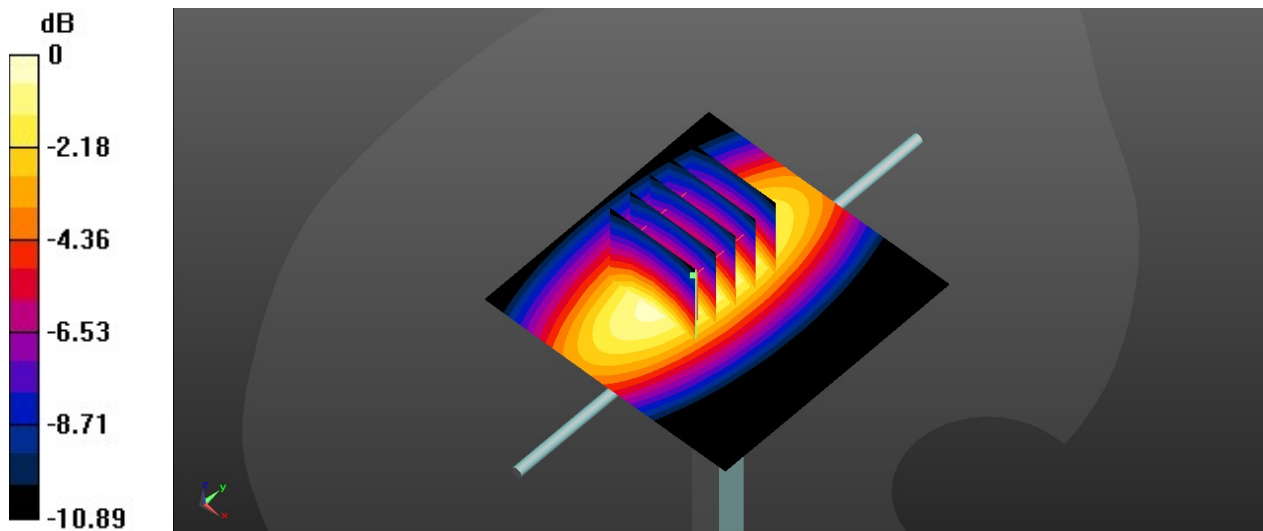
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL_835_210520 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.98$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 3.45 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 59.84 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.78 W/kg
SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.66 W/kg
Maximum value of SAR (measured) = 3.38 W/kg



0 dB = 3.45 W/kg

System Check_Head_835MHz

DUT: D835V2-SN:4d162

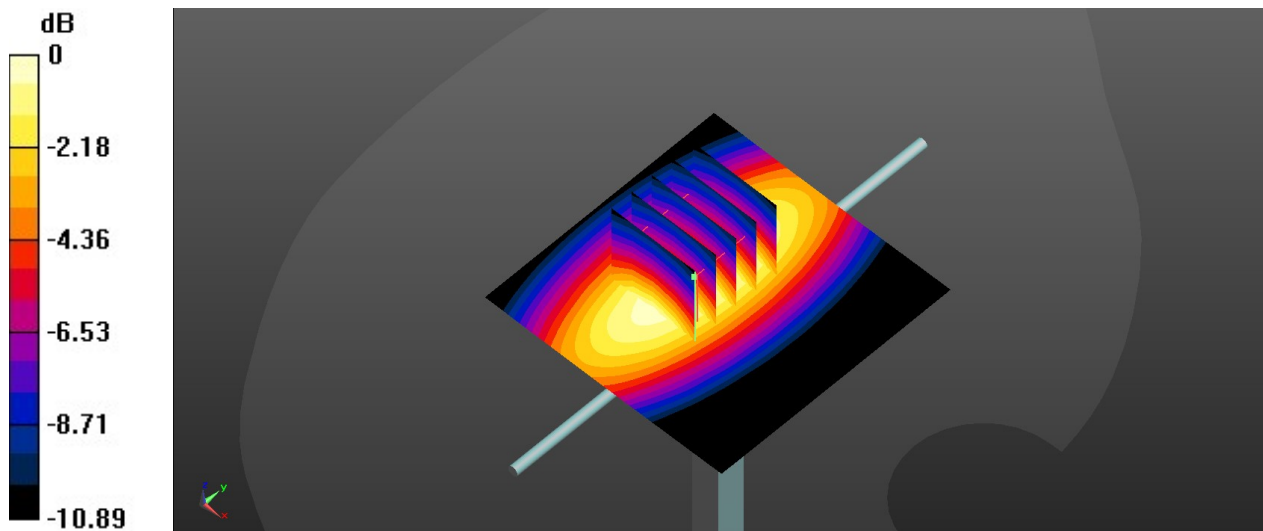
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL_835_210531 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 40.859$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(9.54, 9.54, 9.54); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 3.44 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 59.84 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.77 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.65 W/kg
Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 3.37 W/kg

System Check_Head_1750MHz

DUT: D1750V2-SN:1137

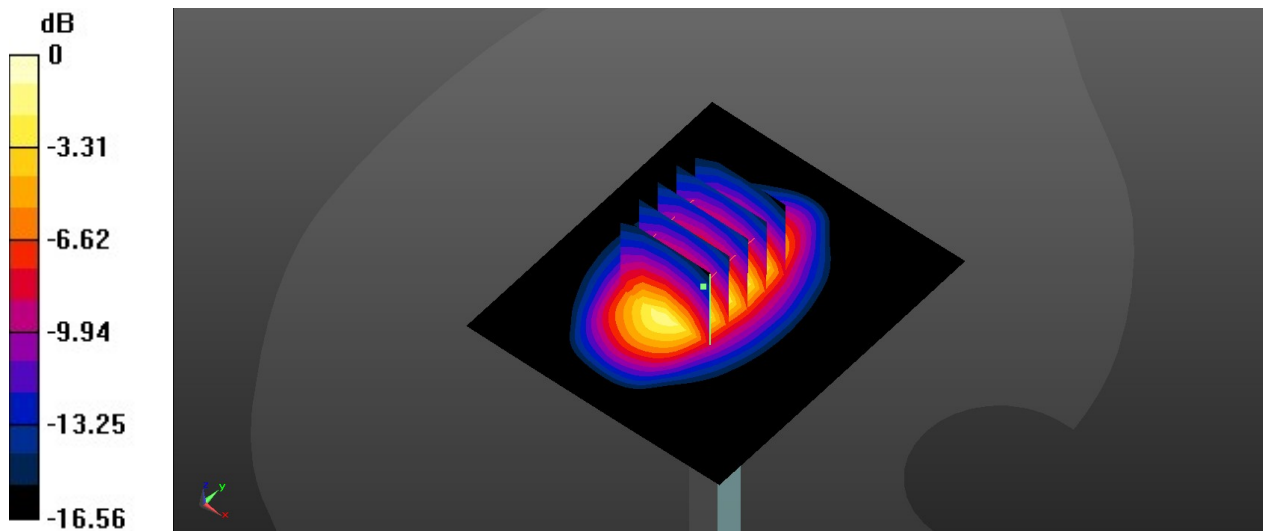
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: HSL_1750_210521 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.206$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.62, 8.62, 8.62); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 15.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 98.05 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.69 W/kg; SAR(10 g) = 5.22 W/kg
Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 15.4 W/kg

System Check_Head_1750MHz

DUT: D1750V2-SN:1137

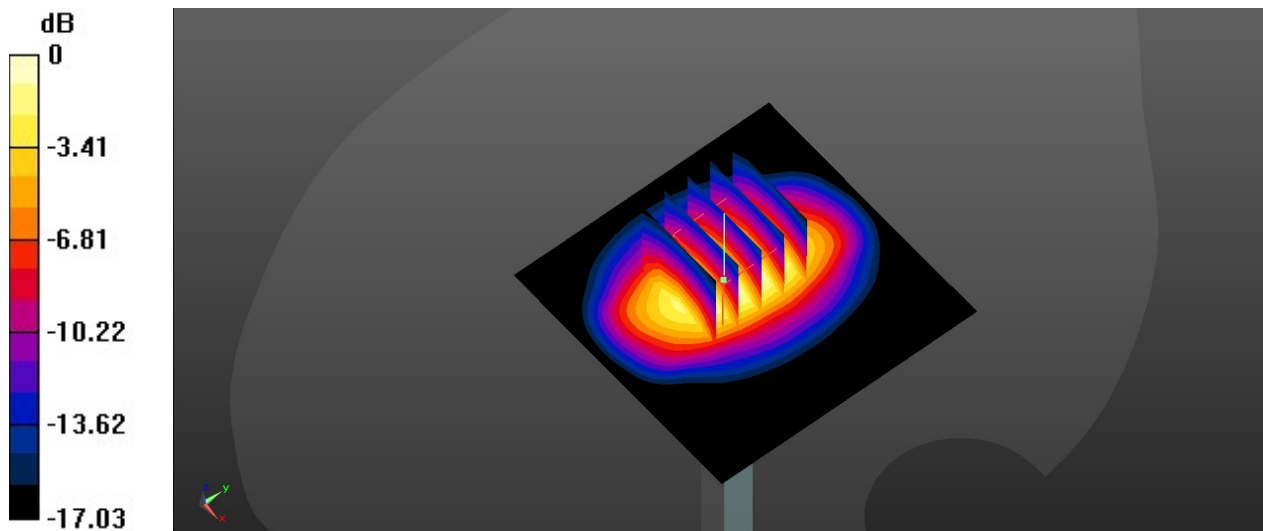
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: HSL_1750_210601 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 41.359$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.62, 8.62, 8.62); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 13.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 86.44 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 9.45 W/kg; SAR(10 g) = 5.02 W/kg
Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg

System Check_Head_1900MHz

DUT: D1900V2-SN:5d182

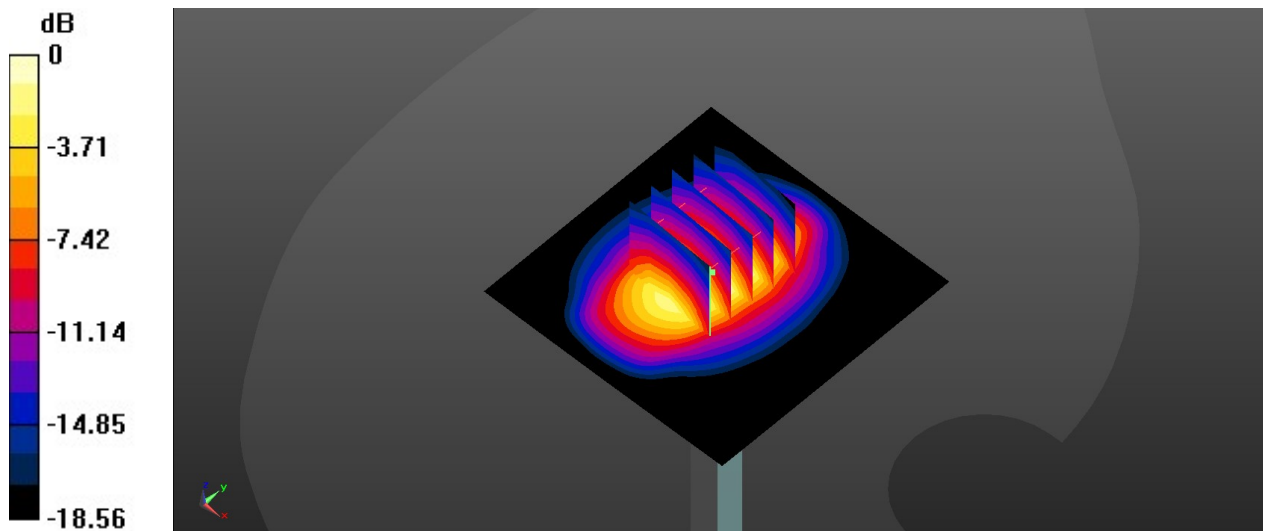
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900_210523 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 41.133$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 16.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 102.5 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 19.9 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.35 W/kg
Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.1 W/kg

System Check_Head_1900MHz

DUT: D1900V2-SN:5d182

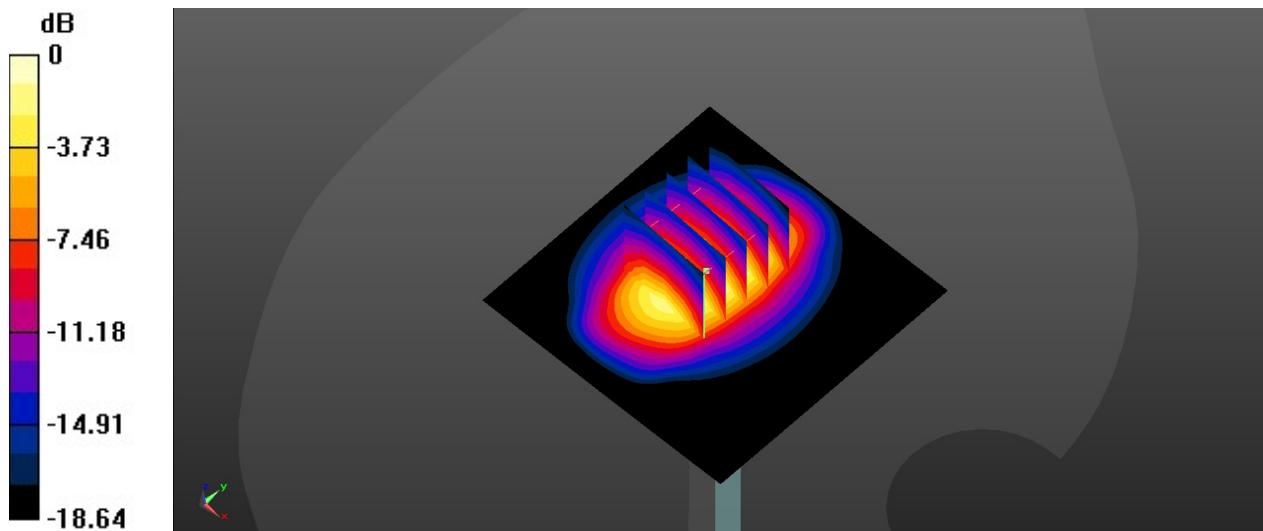
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900_210603 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.038$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.7 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(8.34, 8.34, 8.34); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- 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) = 16.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 87.86 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 19.8 W/kg
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.3 W/kg
Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.4 W/kg

System Check_Head_2450MHz

DUT: D2450V2-SN:924

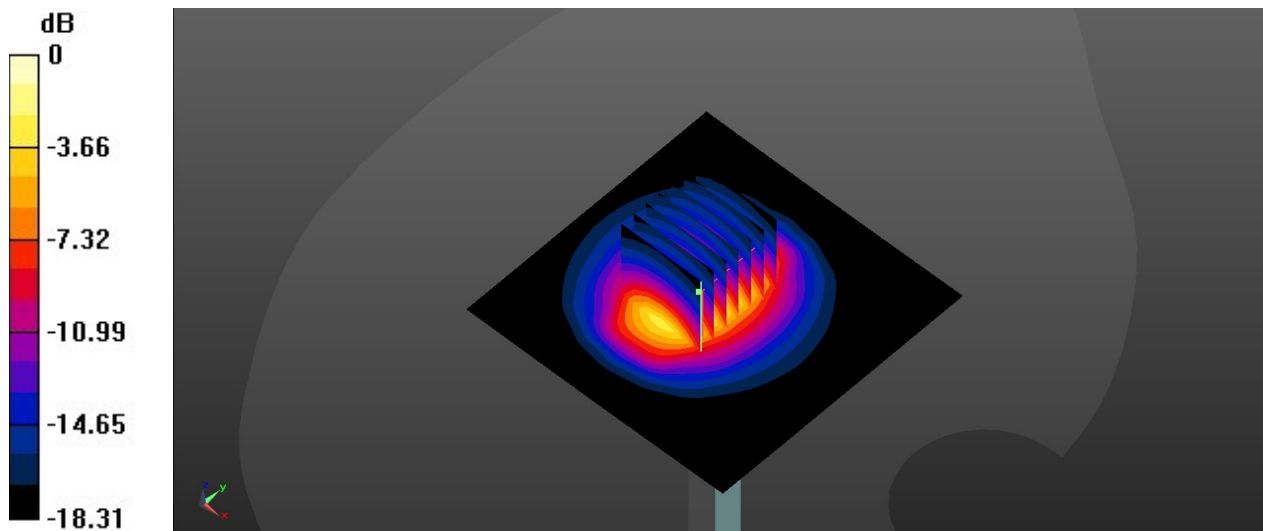
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL_2450_210525 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.861$ S/m; $\epsilon_r = 39.575$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.62 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 29.0 W/kg
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.38 W/kg
Maximum value of SAR (measured) = 21.3 W/kg



0 dB = 21.6 W/kg

System Check_Head_2450MHz

DUT: D2450V2-SN:924

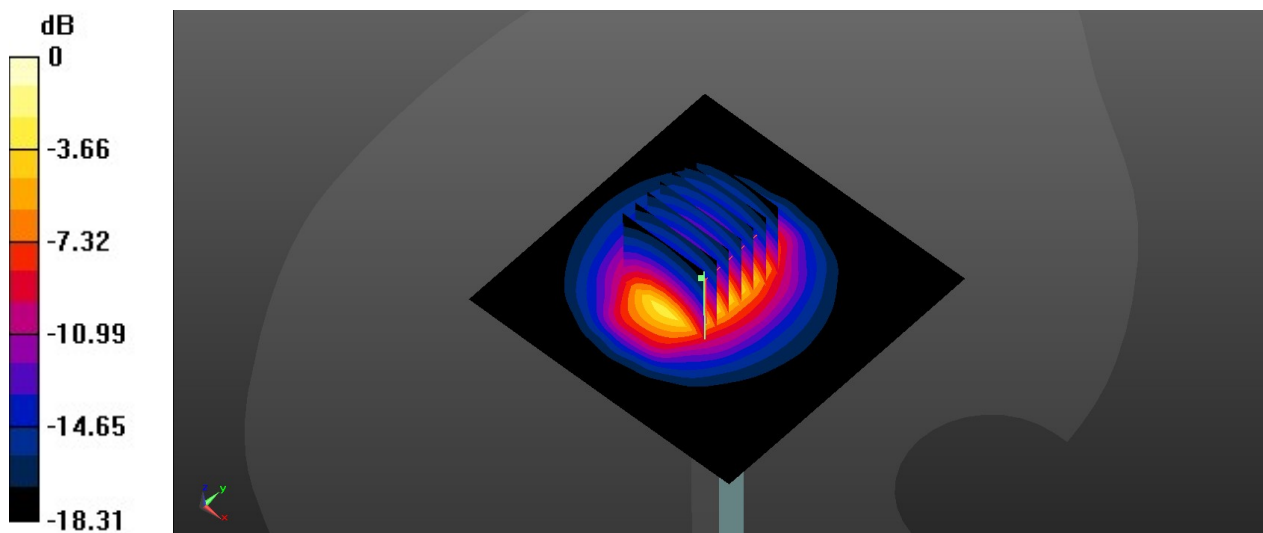
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL_2450_210606 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.758$ S/m; $\epsilon_r = 39.247$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 20.4 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.62 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 27.4 W/kg
SAR(1 g) = 13 W/kg; SAR(10 g) = 6.02 W/kg
Maximum value of SAR (measured) = 20.2 W/kg



0 dB = 20.4 W/kg

System Check_Head_2600MHz

DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: HSL_2600_210526 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.894$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

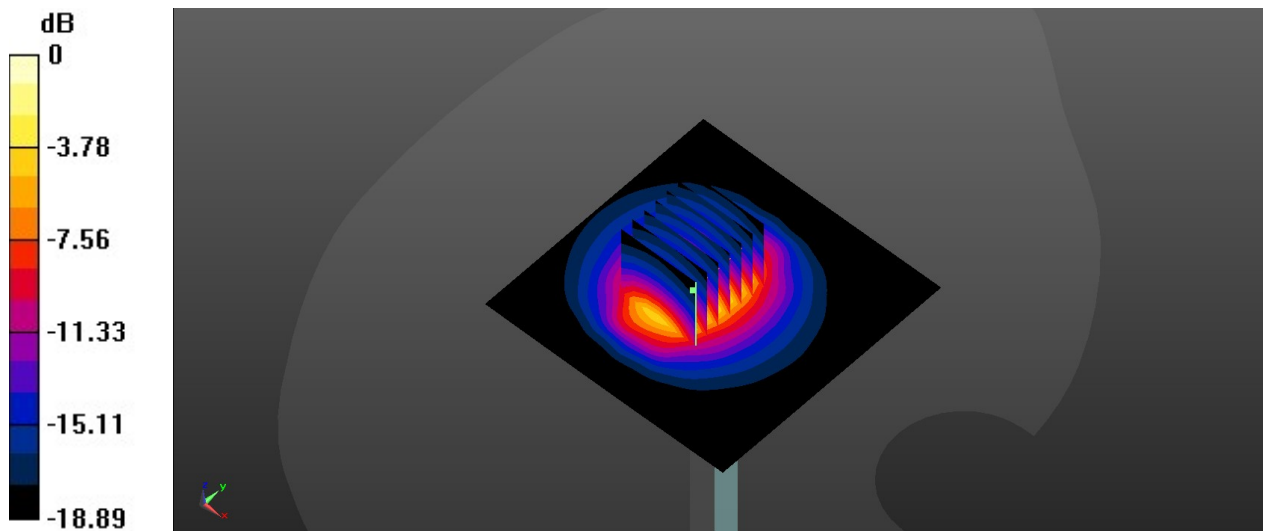
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 80.16 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.25 W/kg
Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.6 W/kg

System Check_Head_2600MHz

DUT: D2600V2-SN:1070

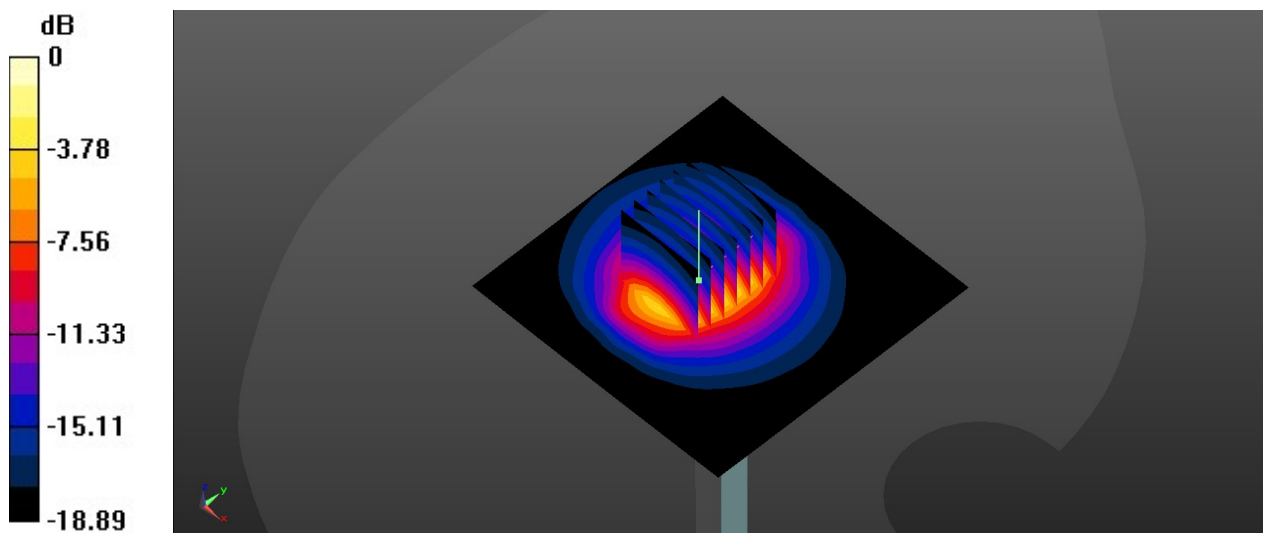
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: HSL_2600_210607 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.818$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.8 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(7.66, 7.66, 7.66); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 22.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 80.16 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 31.4 W/kg
SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.35 W/kg
Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg

System Check_Head_3500MHz

DUT: D3500V2-SN:1076

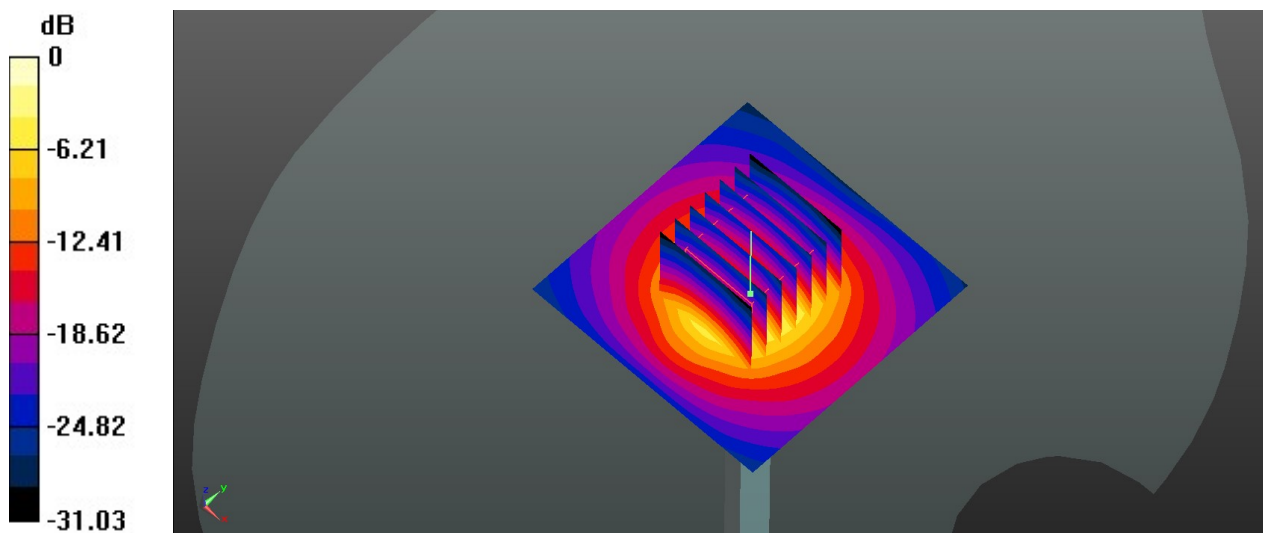
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium: HSL_3500_210617 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.892$ S/m; $\epsilon_r = 36.651$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(6.69, 6.69, 6.69); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm
Reference Value = 71.55 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 6.74 W/kg; SAR(10 g) = 2.53 W/kg
Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg

System Check_Head_5250MHz

DUT: D5GHzV2-SN:1167

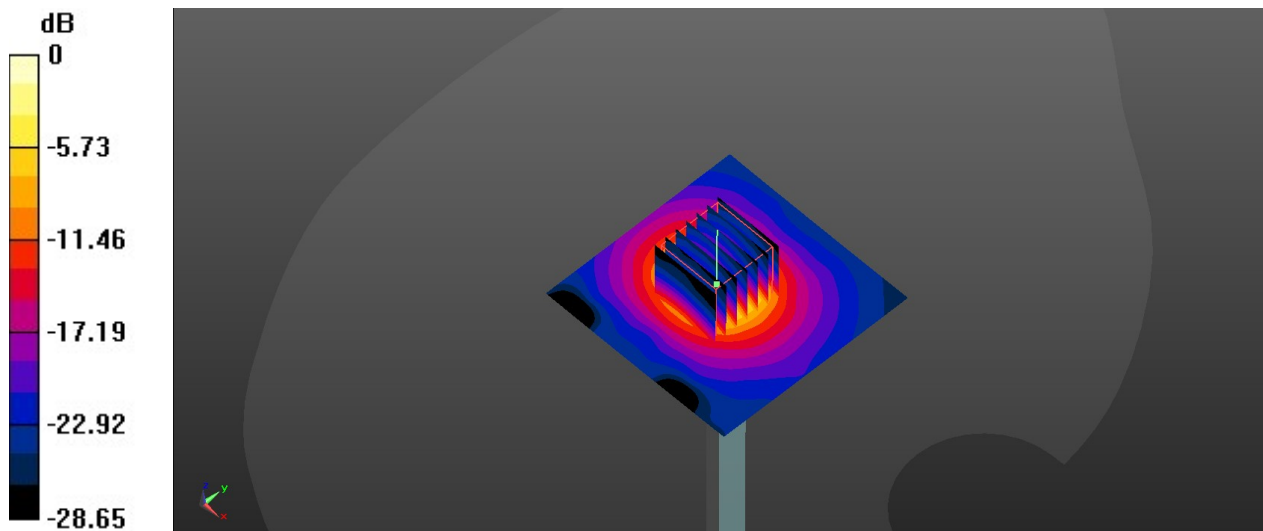
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: HSL_5250_210609 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.767$ S/m; $\epsilon_r = 36.978$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.3 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 61.82 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 33.9 W/kg
SAR(1 g) = 8.37 W/kg; SAR(10 g) = 2.33 W/kg
Maximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg

System Check_Head_5250MHz

DUT: D5GHzV2-SN:1167

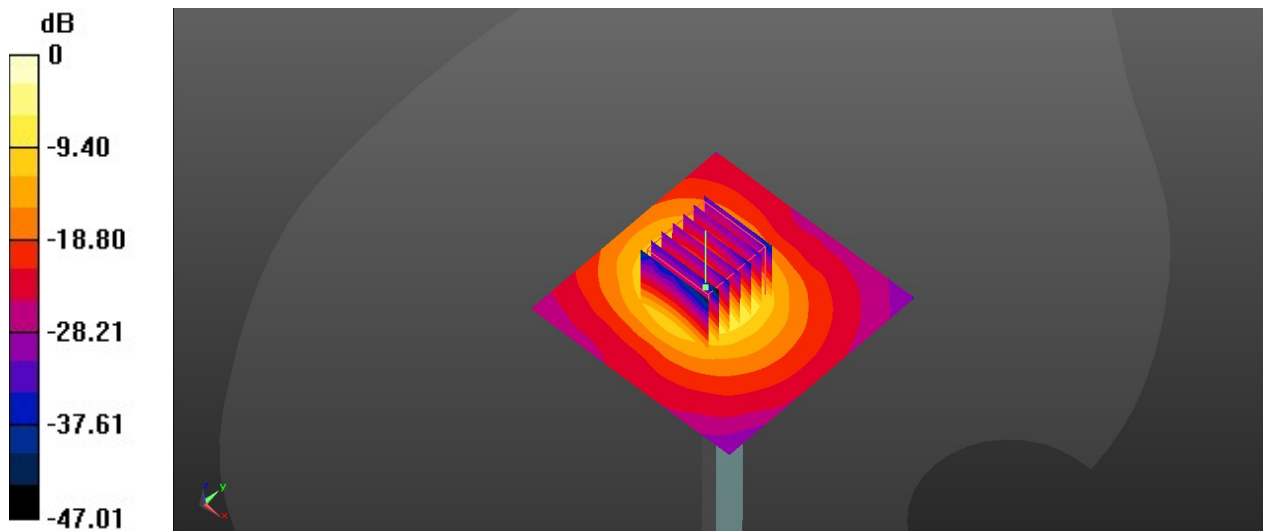
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: HSL_5250_210614 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 36.854$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(5.4, 5.4, 5.4); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.5 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 50.69 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 32.7 W/kg
SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg

System Check_Head_5600MHz

DUT: D5GHzV2-SN:1167

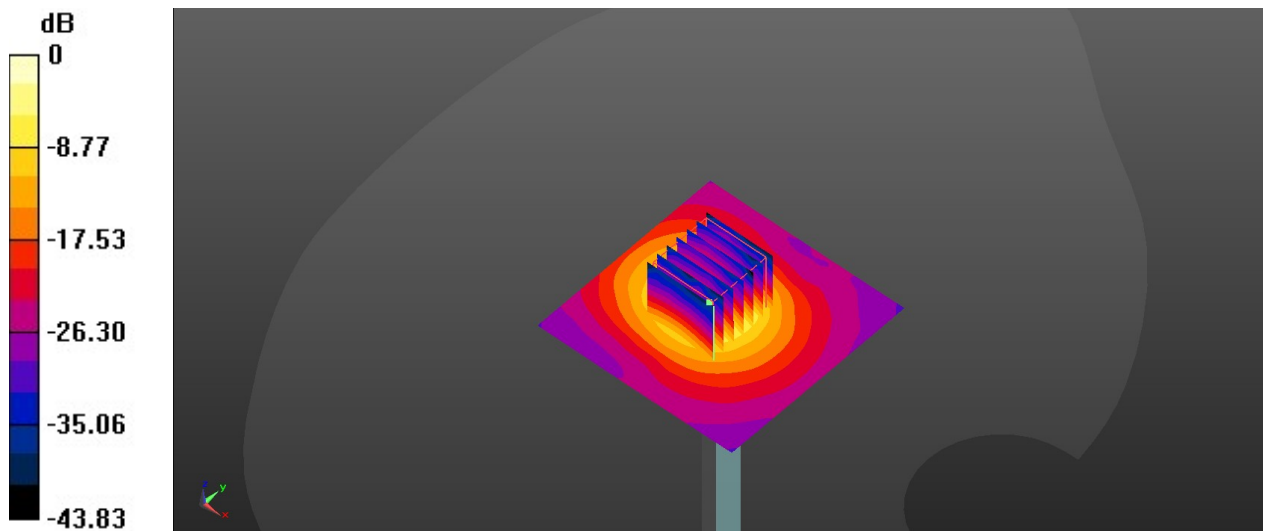
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: HSL_5600_210610 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.182$ S/m; $\epsilon_r = 36.105$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.4 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 56.25 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 41.2 W/kg
SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 23.3 W/kg



0 dB = 23.4 W/kg

System Check_Head_5600MHz

DUT: D5GHzV2-SN:1167

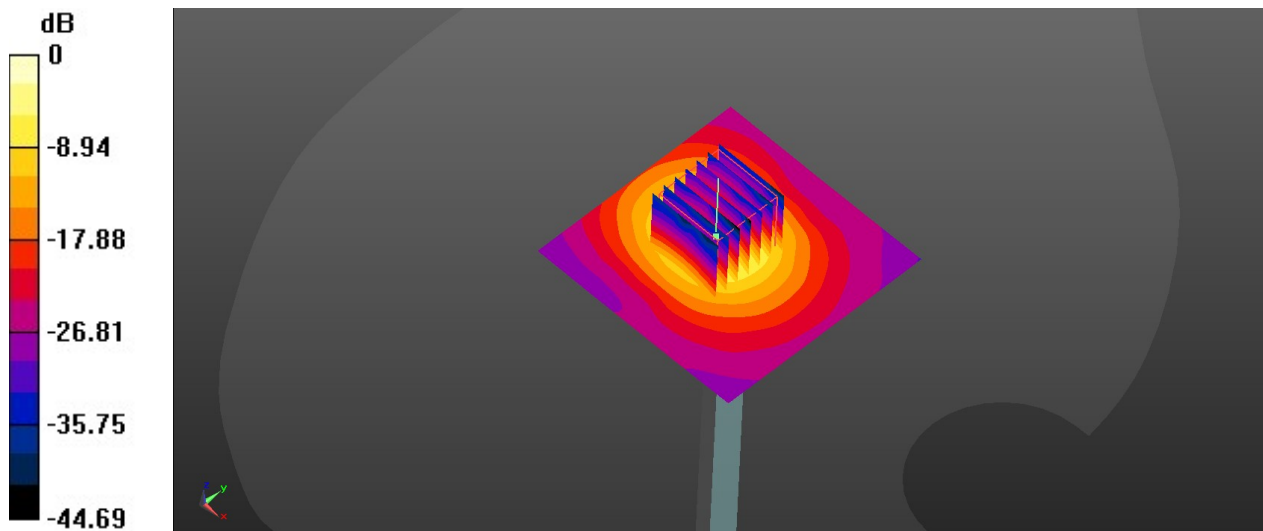
Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: HSL_5600_210616 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.006$ S/m; $\epsilon_r = 36.08$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.8 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7577; ConvF(4.79, 4.79, 4.79); Calibrated: 2020/9/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 2020/7/27
- Phantom: Twin-SAM1(P1aP2a20); Type: QD 000 P40 CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.0 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 54.66 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 40.4 W/kg
SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.8 W/kg