**<FDD LTE SAR>**

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1 | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5 | Full | 23095 | 707.5 | 23.05 | 24.00 | 1.245 | -0.13 | 0.531 | **0.661** |
| | 1 | LTE Band 12 | 10M | QPSK | 25 | 0 | Front | 5 | Full | 23095 | 707.5 | 21.98 | 23.00 | 1.265 | 0.12 | 0.282 | 0.357 |
| | 1 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5 | Full | 23095 | 707.5 | 23.05 | 24.00 | 1.245 | 0.06 | 0.463 | 0.576 |
| | 1 | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 5 | Full | 23095 | 707.5 | 21.98 | 23.00 | 1.265 | 0.05 | 0.246 | 0.311 |
| 50 | 1 | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5 | Full | 23230 | 782 | 23.09 | 24.00 | 1.233 | 0.09 | 0.831 | **1.025** |
| | 1 | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 5 | Full | 23230 | 782 | 21.97 | 23.00 | 1.268 | 0.02 | 0.405 | 0.513 |
| | 1 | LTE Band 13 | 10M | QPSK | 50 | 0 | Front | 5 | Full | 23230 | 782 | 22.10 | 23.00 | 1.230 | -0.01 | 0.408 | 0.502 |
| | 1 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5 | Full | 23230 | 782 | 23.09 | 24.00 | 1.233 | 0.17 | 0.774 | 0.954 |
| | 1 | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 5 | Full | 23230 | 782 | 21.97 | 23.00 | 1.268 | 0.03 | 0.429 | 0.544 |
| | 1 | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 5 | Full | 23230 | 782 | 22.10 | 23.00 | 1.230 | 0.05 | 0.427 | 0.525 |
| 51 | 1 | LTE Band 26 | 15M | QPSK | 1 | 74 | Front | 5 | Full | 26865 | 831.5 | 23.82 | 24.00 | 1.042 | -0.01 | 1.010 | **1.053** |
| | 1 | LTE Band 26 | 15M | QPSK | 36 | 0 | Front | 5 | Full | 26865 | 831.5 | 22.79 | 23.00 | 1.050 | -0.11 | 0.515 | 0.541 |
| | 1 | LTE Band 26 | 15M | QPSK | 75 | 0 | Front | 5 | Full | 26865 | 831.5 | 22.70 | 23.00 | 1.072 | 0.1 | 0.528 | 0.566 |
| | 1 | LTE Band 26 | 15M | QPSK | 1 | 74 | Back | 5 | Full | 26865 | 831.5 | 23.82 | 24.00 | 1.042 | -0.15 | 1.000 | 1.042 |
| | 1 | LTE Band 26 | 15M | QPSK | 36 | 0 | Back | 5 | Full | 26865 | 831.5 | 22.79 | 23.00 | 1.050 | 0.04 | 0.451 | 0.473 |
| | 1 | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5 | Full | 26865 | 831.5 | 22.70 | 23.00 | 1.072 | 0.03 | 0.438 | 0.469 |
| 52 | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 5 | P-Sensor On | 132572 | 1770 | 14.93 | 15.00 | 1.016 | 0.09 | 0.593 | **0.603** |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 5 | P-Sensor On | 132072 | 1720 | 14.90 | 15.00 | 1.023 | 0.04 | 0.499 | 0.511 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 5 | P-Sensor On | 132322 | 1745 | 14.93 | 15.00 | 1.016 | 0.17 | 0.558 | 0.567 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 132572 | 1770 | 12.27 | 14.00 | 1.489 | 0.09 | 0.276 | 0.411 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Back | 5 | P-Sensor On | 132572 | 1770 | 14.93 | 15.00 | 1.016 | 0.11 | 0.393 | 0.399 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 132572 | 1770 | 12.27 | 14.00 | 1.489 | 0.09 | 0.183 | 0.273 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 26340 | 1880 | 15.90 | 16.00 | 1.023 | 0.01 | 0.676 | 0.692 |
| 53 | 1 | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 26140 | 1860 | 15.55 | 16.00 | 1.109 | 0.17 | 0.633 | **0.702** |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 26590 | 1905 | 15.78 | 16.00 | 1.052 | -0.05 | 0.654 | 0.688 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 26340 | 1880 | 13.52 | 15.00 | 1.406 | 0.01 | 0.364 | 0.512 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 26340 | 1880 | 15.90 | 16.00 | 1.023 | 0.16 | 0.492 | 0.503 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 26340 | 1880 | 13.52 | 15.00 | 1.406 | 0.1 | 0.264 | 0.371 |

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 27710 | 2310 | 19.48 | 19.50 | 1.005 | 0.05 | 0.701 | 0.704 |
| | 2 | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5 | P-Sensor On | 27710 | 2310 | 16.92 | 18.50 | 1.439 | 0.03 | 0.355 | 0.511 |
| | 2 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 27710 | 2310 | 19.48 | 19.50 | 1.005 | -0.07 | 0.732 | 0.735 |
| | 2 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5 | P-Sensor On | 27710 | 2310 | 16.92 | 18.50 | 1.439 | 0.05 | 0.400 | 0.576 |
| 54 | 3 | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 27710 | 2310 | 19.48 | 19.50 | 1.005 | 0.13 | 0.777 | **0.781** |
| | 3 | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5 | P-Sensor On | 27710 | 2310 | 16.92 | 18.50 | 1.439 | -0.03 | 0.395 | 0.568 |
| | 3 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 27710 | 2310 | 19.48 | 19.50 | 1.005 | 0.15 | 0.634 | 0.637 |
| | 3 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5 | P-Sensor On | 27710 | 2310 | 16.92 | 18.50 | 1.439 | -0.06 | 0.317 | 0.456 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 18.45 | 18.50 | 1.012 | -0.09 | 0.733 | 0.741 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 20850 | 2510 | 18.25 | 18.50 | 1.059 | -0.07 | 0.758 | 0.803 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 21100 | 2535 | 18.10 | 18.50 | 1.096 | 0.02 | 0.760 | 0.833 |
| | 2 | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 15.75 | 17.50 | 1.496 | 0.17 | 0.386 | 0.578 |
| | 2 | LTE Band 7 | 20M | QPSK | 100 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 15.74 | 17.50 | 1.500 | 0.02 | 0.374 | 0.561 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 21350 | 2560 | 18.45 | 18.50 | 1.012 | 0.04 | 0.614 | 0.621 |
| | 2 | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 21350 | 2560 | 15.75 | 17.50 | 1.496 | -0.17 | 0.322 | 0.482 |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 18.45 | 18.50 | 1.012 | 0.01 | 0.819 | 0.828 |
| 55 | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 20850 | 2510 | 18.25 | 18.50 | 1.059 | -0.15 | 0.907 | **0.961** |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 21100 | 2535 | 18.10 | 18.50 | 1.096 | 0.01 | 0.869 | 0.953 |
| | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 15.75 | 17.50 | 1.496 | 0.04 | 0.467 | 0.699 |
| | 3 | LTE Band 7 | 20M | QPSK | 100 | 0 | Front | 5 | P-Sensor On | 21350 | 2560 | 15.74 | 17.50 | 1.500 | 0.02 | 0.386 | 0.579 |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 21350 | 2560 | 18.45 | 18.50 | 1.012 | 0.01 | 0.656 | 0.664 |
| | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 21350 | 2560 | 15.75 | 17.50 | 1.496 | 0.02 | 0.346 | 0.518 |

**<TDD LTE SAR>**

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 40620 | 2593 | 19.89 | 20.00 | 1.026 | 62.9 | 1.006 | 0.06 | 0.501 | 0.517 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 39750 | 2506 | 19.77 | 20.00 | 1.054 | 62.9 | 1.006 | 0.04 | 0.901 | 0.956 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 40185 | 2549.5 | 19.64 | 20.00 | 1.086 | 62.9 | 1.006 | 0.07 | 0.436 | 0.477 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 41055 | 2636.5 | 19.64 | 20.00 | 1.086 | 62.9 | 1.006 | 0.07 | 0.309 | 0.338 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 41490 | 2680 | 19.54 | 20.00 | 1.112 | 62.9 | 1.006 | 0.12 | 0.485 | 0.542 |
| | 2 | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 40620 | 2593 | 17.33 | 19.00 | 1.469 | 62.9 | 1.006 | 0.18 | 0.332 | 0.491 |
| | 2 | LTE Band 41 | 20M | QPSK | 100 | 0 | Front | 5 | P-Sensor On | 40620 | 2593 | 17.22 | 19.00 | 1.507 | 62.9 | 1.006 | 0.05 | 0.339 | 0.514 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 40620 | 2593 | 19.89 | 20.00 | 1.026 | 62.9 | 1.006 | 0.14 | 0.531 | 0.548 |
| | 2 | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 40620 | 2593 | 17.33 | 19.00 | 1.469 | 62.9 | 1.006 | 0.01 | 0.290 | 0.429 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 40620 | 2593 | 19.89 | 20.00 | 1.026 | 62.9 | 1.006 | 0.08 | 0.467 | 0.482 |
| 56 | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 39750 | 2506 | 19.77 | 20.00 | 1.054 | 62.9 | 1.006 | -0.04 | 1.020 | **1.082** |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 40185 | 2549.5 | 19.64 | 20.00 | 1.086 | 62.9 | 1.006 | -0.09 | 0.828 | 0.905 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 41055 | 2636.5 | 19.64 | 20.00 | 1.086 | 62.9 | 1.006 | 0.17 | 0.624 | 0.682 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | P-Sensor On | 41490 | 2680 | 19.54 | 20.00 | 1.112 | 62.9 | 1.006 | -0.02 | 0.722 | 0.807 |
| | 3 | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 5 | P-Sensor On | 40620 | 2680 | 17.33 | 19.00 | 1.469 | 62.9 | 1.006 | 0.13 | 0.377 | 0.557 |
| | 3 | LTE Band 41 | 20M | QPSK | 100 | 0 | Front | 5 | P-Sensor On | 40620 | 2593 | 17.22 | 19.00 | 1.507 | 62.9 | 1.006 | 0.14 | 0.211 | 0.320 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | P-Sensor On | 40620 | 2680 | 19.89 | 20.00 | 1.026 | 62.9 | 1.006 | 0.17 | 0.439 | 0.453 |
| | 3 | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | P-Sensor On | 40620 | 2593 | 17.33 | 19.00 | 1.469 | 62.9 | 1.006 | 0.16 | 0.215 | 0.318 |

## <WLAN 2.4GHz SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Max Area Scan SAR | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5 | Full | 11 | 2462 | 17.56 | 18.00 | 1.107 | 97.94 | 1.021 | -0.05 | 0.294 | 0.151 | 0.171 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 11 | 2462 | 17.56 | 18.00 | 1.107 | 97.94 | 1.021 | -0.08 | 0.367 | 0.266 | 0.301 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 1 | 2412 | 16.62 | 18.00 | 1.374 | 97.94 | 1.021 | -0.12 | | 0.249 | 0.349 |
| 57 | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 6 | 2437 | 17.44 | 18.00 | 1.138 | 97.94 | 1.021 | 0.08 | | 0.368 | **0.427** |
| | WLAN2.4GHz | 802.11b 1Mbps | Front with Headset 1 | 5 | Full | 6 | 2437 | 17.56 | 18.00 | 1.107 | 97.94 | 1.021 | -0.05 | 0.294 | 0.144 | 0.163 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front with Headset 2 | 5 | Full | 6 | 2437 | 17.56 | 18.00 | 1.107 | 97.94 | 1.021 | -0.05 | | 0.138 | 0.156 |

## <WLAN 5GHz SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | 0.04 | 0.923 | 1.146 |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | -0.08 | 0.681 | 0.846 |
| 58 | WLAN5.3GHz | 802.11a 6Mbps | Front | 5 | P-Sensor On | 56 | 5280 | 16.00 | 16.50 | 1.123 | 87.96 | 1.137 | -0.07 | 0.914 | **1.167** |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 5 | P-Sensor On | 52 | 5260 | 15.85 | 16.50 | 1.162 | 87.96 | 1.137 | 0.01 | 0.864 | 1.142 |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 5 | P-Sensor On | 56 | 5280 | 16.00 | 16.50 | 1.123 | 87.96 | 1.137 | 0.02 | 0.754 | 0.963 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front with Headset 1 | 5 | P-Sensor On | 56 | 5280 | 16.00 | 16.50 | 1.123 | 87.96 | 1.137 | -0.06 | 0.810 | 1.034 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front with Headset 1 | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | -0.03 | 0.833 | 1.034 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front with Headset 2 | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | -0.05 | 0.820 | 1.018 |
| | WLAN5.5GHz | 802.11a 6Mbps | Front | 5 | Full | 116 | 5580 | 17.11 | 17.50 | 1.095 | 87.96 | 1.137 | 0.08 | 0.529 | 0.658 |
| | WLAN5.5GHz | 802.11a 6Mbps | Back | 5 | Full | 116 | 5580 | 17.11 | 17.50 | 1.095 | 87.96 | 1.137 | 0.02 | 0.794 | 0.988 |
| 59 | WLAN5.5GHz | 802.11a 6Mbps | Back | 5 | Full | 124 | 5620 | 16.68 | 17.50 | 1.208 | 87.96 | 1.137 | 0.08 | 0.850 | **1.167** |
| | WLAN5.5GHz | 802.11a 6Mbps | Back | 5 | Full | 100 | 5500 | 16.54 | 17.50 | 1.247 | 87.96 | 1.137 | -0.04 | 0.811 | 1.150 |
| | WLAN5.5GHz | 802.11a 6Mbps | Back | 5 | Full | 140 | 5500 | 15.84 | 16.00 | 1.038 | 87.96 | 1.137 | -0.04 | 0.825 | 0.974 |
| | WLAN5.5GHz | 802.11a 6Mbps | Front with Headset 1 | 5 | Full | 116 | 5580 | 17.11 | 17.50 | 1.095 | 87.96 | 1.137 | 0.05 | 0.521 | 0.648 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Front | 5 | P-Sensor On | 149 | 5745 | 15.17 | 15.50 | 1.080 | 87.96 | 1.137 | 0.06 | 0.510 | 0.626 |
| 60 | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | P-Sensor On | 149 | 5745 | 15.17 | 15.50 | 1.080 | 87.96 | 1.137 | 0.01 | 0.801 | **0.983** |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | P-Sensor On | 157 | 5785 | 14.51 | 15.50 | 1.257 | 87.96 | 1.137 | 0.01 | 0.681 | 0.973 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | P-Sensor On | 165 | 5825 | 13.73 | 15.50 | 1.504 | 87.96 | 1.137 | 0.01 | 0.571 | 0.977 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Front with Headset 1 | 5 | P-Sensor On | 149 | 5745 | 15.17 | 15.50 | 1.080 | 87.96 | 1.137 | 0.03 | 0.480 | 0.589 |

## <Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bluetooth | 1Mbps | Front | 5 | 39 | 2441 | 11.63 | 12.00 | 1.089 | 77.00 | 1.082 | 0.04 | 0.066 | 0.078 |
| 61 | Bluetooth | 1Mbps | Back | 5 | 39 | 2441 | 11.63 | 12.00 | 1.089 | 77.00 | 1.082 | -0.17 | 0.093 | **0.110** |
| | Bluetooth | 1Mbps | Back | 5 | 0 | 2402 | 11.02 | 12.00 | 1.253 | 77.00 | 1.082 | 0.05 | 0.077 | 0.105 |
| | Bluetooth | 1Mbps | Back | 5 | 78 | 2480 | 11.07 | 12.00 | 1.239 | 77.00 | 1.082 | -0.18 | 0.054 | 0.072 |
| | Bluetooth | 1Mbps | Front with Headset 1 | 5 | 39 | 2441 | 11.63 | 12.00 | 1.089 | 77.00 | 1.082 | 0.04 | 0.051 | 0.060 |
| | Bluetooth | 1Mbps | Front with Headset 2 | 5 | 39 | 2441 | 11.63 | 12.00 | 1.089 | 77.00 | 1.082 | 0.04 | 0.048 | 0.057 |

## 14.4 Product specific 10g SAR

### <GSM SAR>

| Plot No. | Ant. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 810 | 1909.8 | 28.42 | 29.00 | 1.143 | 0.09 | 2.320 | 2.651 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 512 | 1850.2 | 28.23 | 29.00 | 1.194 | -0.09 | 2.560 | 3.057 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 661 | 1909.8 | 28.04 | 29.00 | 1.247 | 0.02 | 2.510 | 3.131 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 810 | 1909.8 | 28.42 | 29.00 | 1.143 | 0.11 | 2.030 | 2.320 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 512 | 1850.2 | 28.23 | 29.00 | 1.194 | 0.02 | 1.940 | 2.316 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 661 | 1909.8 | 28.04 | 29.00 | 1.247 | 0.09 | 2.070 | 2.582 |
| | 1 | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 810 | 1909.8 | 28.42 | 29.00 | 1.143 | -0.03 | 2.560 | 2.926 |
| 62 | 1 | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 512 | 1850.2 | 28.23 | 29.00 | 1.194 | 0.12 | 2.850 | **3.403** |
| | 1 | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 661 | 1909.8 | 28.04 | 29.00 | 1.247 | 0.05 | 2.590 | 3.231 |

### <WCDMA SAR>

| Plot No. | Ant. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | WCDMA Band IV | RMC 12.2Kbps | Front | 0 | Handheld On | 1513 | 1752.6 | 19.30 | 20.50 | 1.318 | 0.09 | 1.370 | 1.806 |
| | 1 | WCDMA Band IV | RMC 12.2Kbps | Back | 0 | Handheld On | 1513 | 1752.6 | 19.30 | 20.50 | 1.318 | -0.09 | 1.060 | 1.397 |
| | 1 | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1513 | 1752.6 | 19.30 | 20.50 | 1.318 | -0.09 | 2.040 | 2.689 |
| | 1 | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1312 | 1712.4 | 18.96 | 20.50 | 1.426 | -0.1 | 1.570 | 2.238 |
| 63 | 1 | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1413 | 1732.6 | 19.16 | 20.50 | 1.361 | -0.11 | 2.040 | **2.777** |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9538 | 1907.6 | 19.85 | 21.50 | 1.462 | 0.09 | 1.540 | 2.252 |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9262 | 1852.4 | 19.79 | 21.50 | 1.483 | 0.1 | 1.650 | 2.446 |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9400 | 1880 | 19.67 | 21.50 | 1.524 | 0.17 | 1.590 | 2.423 |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Back | 0 | Handheld On | 9538 | 1907.6 | 19.85 | 21.50 | 1.462 | -0.09 | 1.290 | 1.886 |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9538 | 1907.6 | 19.85 | 21.50 | 1.462 | -0.05 | 1.920 | 2.807 |
| 64 | 1 | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9262 | 1852.4 | 19.79 | 21.50 | 1.483 | -0.15 | 1.930 | **2.861** |
| | 1 | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9400 | 1880 | 19.67 | 21.50 | 1.524 | 0.01 | 1.870 | 2.850 |

### <CDMA2000 SAR>

| Plot No. | Ant. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 25 | 1851.25 | 19.97 | 20.50 | 1.130 | -0.07 | 2.780 | 3.141 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 600 | 1880 | 19.88 | 20.50 | 1.153 | -0.02 | 2.840 | 3.276 |
| 65 | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 1175 | 1908.75 | 19.77 | 20.50 | 1.183 | 0.01 | 2.780 | **3.289** |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 25 | 1851.25 | 19.97 | 20.50 | 1.130 | 0.03 | 2.410 | 2.723 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 600 | 1880 | 19.88 | 20.50 | 1.153 | 0.01 | 2.360 | 2.722 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 1175 | 1908.75 | 19.77 | 20.50 | 1.183 | 0.06 | 2.460 | 2.910 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 25 | 1851.25 | 19.97 | 20.50 | 1.130 | -0.04 | 2.740 | 3.096 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 600 | 1880 | 19.88 | 20.50 | 1.153 | -0.02 | 2.560 | 2.953 |
| | 1 | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 1175 | 1908.75 | 19.77 | 20.50 | 1.183 | -0.01 | 2.500 | 2.958 |

**<FDD LTE SAR>**

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 132572 | 1770 | 20.49 | 20.50 | 1.002 | 0.09 | 2.850 | 2.857 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 132072 | 1720 | 20.47 | 20.50 | 1.007 | -0.09 | 2.750 | 2.769 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 132322 | 1745 | 20.44 | 20.50 | 1.014 | 0.02 | 2.820 | 2.859 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 132572 | 1770 | 18.03 | 19.50 | 1.403 | 0.01 | 1.420 | 1.992 |
| | 1 | LTE Band 66 | 20M | QPSK | 100 | 0 | Front | 0 | Handheld On | 132572 | 1770 | 18.17 | 19.50 | 1.358 | 0.03 | 1.380 | 1.874 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 132572 | 1770 | 20.49 | 20.50 | 1.002 | 0.11 | 2.270 | 2.275 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 132072 | 1720 | 20.47 | 20.50 | 1.007 | 0.09 | 2.230 | 2.245 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 132322 | 1745 | 20.44 | 20.50 | 1.014 | 0.09 | 2.270 | 2.302 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 132572 | 1770 | 18.03 | 19.50 | 1.403 | 0.01 | 1.280 | 1.796 |
| | 1 | LTE Band 66 | 20M | QPSK | 100 | 0 | Back | 0 | Handheld On | 132572 | 1770 | 18.17 | 19.50 | 1.358 | 0.03 | 1.160 | 1.576 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 20.49 | 20.50 | 1.002 | 0.03 | 3.380 | 3.388 |
| | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 132072 | 1720 | 20.47 | 20.50 | 1.007 | 0.05 | 3.270 | 3.293 |
| 66 | 1 | LTE Band 66 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 132322 | 1745 | 20.44 | 20.50 | 1.014 | -0.09 | 3.350 | **3.397** |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 18.03 | 19.50 | 1.403 | 0.02 | 2.080 | 2.918 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 132072 | 1720 | 17.92 | 19.50 | 1.439 | -0.05 | 2.010 | 2.892 |
| | 1 | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 132322 | 1745 | 18.01 | 19.50 | 1.409 | 0.05 | 1.980 | 2.790 |
| | 1 | LTE Band 66 | 20M | QPSK | 100 | 0 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 18.17 | 19.50 | 1.358 | -0.01 | 2.030 | 2.757 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 26590 | 1905 | 21.49 | 21.50 | 1.002 | 0.16 | 2.830 | 2.837 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 26140 | 1860 | 21.24 | 21.50 | 1.062 | 0.01 | 2.790 | 2.962 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Front | 0 | Handheld On | 26340 | 1880 | 21.39 | 21.50 | 1.026 | 0.08 | 2.920 | 2.995 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26590 | 1905 | 19.07 | 20.50 | 1.390 | 0.01 | 1.780 | 2.474 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26140 | 1860 | 18.73 | 20.50 | 1.503 | 0.01 | 1.130 | 1.699 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26340 | 1880 | 18.93 | 20.50 | 1.435 | 0.08 | 1.840 | 2.641 |
| | 1 | LTE Band 25 | 20M | QPSK | 100 | 0 | Front | 0 | Handheld On | 26590 | 1905 | 19.09 | 20.50 | 1.384 | 0.03 | 1.760 | 2.435 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 26590 | 1905 | 21.49 | 21.50 | 1.002 | -0.05 | 2.440 | 2.446 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 26140 | 1860 | 21.24 | 21.50 | 1.062 | 0.17 | 2.390 | 2.537 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Back | 0 | Handheld On | 26340 | 1880 | 21.39 | 21.50 | 1.026 | 0.1 | 2.400 | 2.462 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26590 | 1905 | 19.07 | 20.50 | 1.390 | 0.01 | 1.530 | 2.127 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26140 | 1860 | 18.73 | 20.50 | 1.503 | 0.01 | 1.500 | 2.255 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26340 | 1880 | 18.93 | 20.50 | 1.435 | 0.08 | 1.510 | 2.168 |
| | 1 | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 0 | Handheld On | 26590 | 1905 | 19.09 | 20.50 | 1.384 | 0.05 | 1.480 | 2.048 |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 26590 | 1905 | 21.49 | 21.50 | 1.002 | 0.04 | 3.330 | 3.338 |
| 67 | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 21.24 | 21.50 | 1.062 | -0.06 | 3.410 | **3.620** |
| | 1 | LTE Band 25 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 26340 | 1880 | 21.39 | 21.50 | 1.026 | 0.02 | 3.260 | 3.344 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26590 | 1905 | 19.07 | 20.50 | 1.390 | -0.08 | 1.950 | 2.710 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 18.73 | 20.50 | 1.503 | 0.01 | 2.050 | 3.081 |
| | 1 | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26340 | 1880 | 18.93 | 20.50 | 1.435 | 0.05 | 1.910 | 2.742 |
| | 1 | LTE Band 25 | 20M | QPSK | 100 | 0 | Bottom Side | 0 | Handheld On | 26590 | 1905 | 19.09 | 20.50 | 1.384 | 0.03 | 1.850 | 2.560 |

**<FDD LTE SAR>**

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | -0.01 | 0.800 | 0.957 |
| | 2 | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.03 | 0.635 | 0.798 |
| | 2 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | 0.02 | 0.856 | 1.024 |
| | 2 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.05 | 0.690 | 0.867 |
| | 2 | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Side | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | 0.01 | 0.743 | 0.889 |
| | 2 | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Side | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.02 | 0.590 | 0.741 |
| 68 | 3 | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | 0.09 | 1.070 | **1.281** |
| | 3 | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.03 | 0.850 | 1.068 |
| | 3 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | 0.01 | 0.881 | 1.054 |
| | 3 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.01 | 0.680 | 0.854 |
| | 3 | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Side | 0 | Full | 27710 | 2310 | 23.22 | 24.00 | 1.197 | 0.01 | 0.739 | 0.884 |
| | 3 | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Side | 0 | Full | 27710 | 2310 | 22.01 | 23.00 | 1.256 | 0.01 | 0.58 | 0.728 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | -0.01 | 0.919 | 1.092 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 0 | Full | 20850 | 2510 | 23.24 | 24.00 | 1.191 | 0.01 | 0.850 | 1.013 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 0 | Full | 21100 | 2535 | 23.16 | 24.00 | 1.213 | 0.03 | 0.840 | 1.019 |
| | 2 | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.02 | 0.720 | 0.842 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | -0.14 | 0.869 | 1.033 |
| | 2 | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.02 | 0.690 | 0.807 |
| | 2 | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Side | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | -0.14 | 0.820 | 0.975 |
| | 2 | LTE Band 7 | 20M | QPSK | 50 | 0 | Left Side | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.02 | 0.670 | 0.784 |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | 0.17 | 0.845 | 1.004 |
| | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.02 | 0.670 | 0.784 |
| 69 | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | 0.04 | 0.932 | **1.108** |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Full | 20850 | 2510 | 23.24 | 24.00 | 1.191 | 0.01 | 0.841 | 1.002 |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Full | 21100 | 2535 | 23.16 | 24.00 | 1.213 | 0.03 | 0.835 | 1.013 |
| | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.05 | 0.730 | 0.854 |
| | 3 | LTE Band 7 | 20M | QPSK | 1 | 0 | Right Side | 0 | Full | 21350 | 2560 | 23.25 | 24.00 | 1.189 | 0.07 | 0.693 | 0.824 |
| | 3 | LTE Band 7 | 20M | QPSK | 50 | 0 | Right Side | 0 | Full | 21350 | 2560 | 22.32 | 23.00 | 1.169 | 0.05 | 0.550 | 0.643 |

**<TDD LTE SAR>**

| Plot No. | Ant. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 40620 | 2593 | 23.69 | 24.00 | 1.074 | 62.9 | 1.006 | 0.03 | 0.588 | **0.635** |
| | 2 | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 0 | Full | 40620 | 2593 | 22.62 | 23.00 | 1.091 | 62.9 | 1.006 | 0.01 | 0.462 | 0.507 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 40620 | 2593 | 23.69 | 24.00 | 1.074 | 62.9 | 1.006 | -0.19 | 0.506 | 0.547 |
| | 2 | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | Full | 40620 | 2593 | 22.62 | 23.00 | 1.091 | 62.9 | 1.006 | 0.03 | 0.401 | 0.440 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 39750 | 2506 | 23.45 | 24.00 | 1.135 | 62.9 | 1.006 | 0.04 | 0.552 | 0.630 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 40185 | 2549.5 | 23.61 | 24.00 | 1.094 | 62.9 | 1.006 | 0.01 | 0.410 | 0.451 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 41055 | 2636.5 | 23.67 | 24.00 | 1.079 | 62.9 | 1.006 | 0.03 | 0.440 | 0.478 |
| | 2 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 41490 | 2680 | 23.45 | 24.00 | 1.135 | 62.9 | 1.006 | 0.05 | 0.426 | 0.486 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 0 | Full | 40620 | 2593 | 23.69 | 24.00 | 1.074 | 62.9 | 1.006 | -0.04 | 0.494 | 0.534 |
| | 3 | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 0 | Full | 40620 | 2593 | 22.62 | 23.00 | 1.091 | 62.9 | 1.006 | 0.08 | 0.392 | 0.430 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 40620 | 2593 | 23.69 | 24.00 | 1.074 | 62.9 | 1.006 | 0.01 | 0.550 | 0.594 |
| | 3 | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | Full | 40620 | 2593 | 22.62 | 23.00 | 1.091 | 62.9 | 1.006 | 0.06 | 0.440 | 0.483 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 39750 | 2506 | 23.45 | 24.00 | 1.135 | 62.9 | 1.006 | 0.04 | 0.520 | 0.594 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 40185 | 2549.5 | 23.61 | 24.00 | 1.094 | 62.9 | 1.006 | 0.05 | 0.408 | 0.449 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 41055 | 2636.5 | 23.67 | 24.00 | 1.079 | 62.9 | 1.006 | 0.09 | 0.272 | 0.295 |
| | 3 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 0 | Full | 41490 | 2680 | 23.45 | 24.00 | 1.135 | 62.9 | 1.006 | 0.02 | 0.305 | 0.348 |

**<WLAN 5GHz SAR>**

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Mode | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Max Area Scan SAR | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.054 | 87.96 | 1.137 | 0.01 | 11.854 | 1.670 | **2.002** |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 0 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.054 | 87.96 | 1.137 | -0.02 | 5.696 | 0.670 | 0.803 |
| | WLAN5.3GHz | 802.11a 6Mbps | Right Side | 0 | Full | 64 | 5320 | 17.27 | 17.50 | 1.054 | 87.96 | 1.137 | | 0.163 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Top Side | 0 | Full | 64 | 5320 | 17.27 | 17.50 | 1.054 | 87.96 | 1.137 | | 3.153 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | P-Sensor On | 52 | 5260 | 15.85 | 16.50 | 1.164 | 87.96 | 1.137 | 0.01 | | 1.500 | 1.985 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | P-Sensor On | 56 | 5280 | 16.00 | 16.50 | 1.102 | 87.96 | 1.137 | 0.05 | | 1.510 | 1.891 |
| 72 | WLAN 5.5GHz | 802.11a 6Mbps | Front | 0 | Full | 116 | 5580 | 17.11 | 17.50 | 1.094 | 87.96 | 1.137 | -0.02 | 7.466 | 1.270 | **1.580** |
| | WLAN 5.5GHz | 802.11a 6Mbps | Back | 0 | Full | 116 | 5580 | 17.11 | 17.50 | 1.094 | 87.96 | 1.137 | 0.07 | 3.514 | 0.590 | 0.734 |
| | WLAN 5.5GHz | 802.11a 6Mbps | Right Side | 0 | Full | 116 | 5580 | 17.11 | 17.50 | 1.094 | 87.96 | 1.137 | | 1.573 | | |
| | WLAN 5.5GHz | 802.11a 6Mbps | Top Side | 0 | Full | 116 | 5580 | 17.11 | 17.50 | 1.094 | 87.96 | 1.137 | | 2.52 | | |
| | WLAN 5.5GHz | 802.11a 6Mbps | Front | 0 | Full | 100 | 5580 | 16.54 | 17.50 | 1.094 | 87.96 | 1.137 | 0.03 | | 1.100 | 1.368 |
| | WLAN 5.5GHz | 802.11a 6Mbps | Front | 0 | Full | 140 | 5580 | 15.84 | 16.00 | 1.094 | 87.96 | 1.137 | 0.05 | | 1.240 | 1.542 |

## 14.5 Repeated SAR Measurement

### <1g SAR>

| No. | Band | Mode | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | 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 | CDMA2000 BC10 | RC3 SO32 | - | - | - | - | Front | 5 | Full | 476 | 817.9 | 24.38 | 24.50 | 1.028 | - | - | -0.1 | 1.230 | 1 | 1.264 |
| 2nd | CDMA2000 BC10 | RC3 SO32 | - | - | - | - | Front | 5 | Full | 476 | 817.9 | 24.38 | 24.50 | 1.028 | - | - | 0.05 | 1.190 | 1.034 | 1.223 |
| 1st | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Front | 5 | Hotspot On | 1513 | 1752.6 | 16.21 | 16.50 | 1.069 | - | - | 0.03 | 0.964 | 1 | 1.031 |
| 2nd | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Front | 5 | Hotspot On | 1513 | 1752.6 | 16.21 | 16.50 | 1.069 | - | - | 0.03 | 0.958 | 1.006 | 1.024 |
| 1st | LTE Band 25 | - | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26590 | 1905 | 15.78 | 16.00 | 1.052 | - | - | 0.01 | 1.030 | 1 | 1.084 |
| 2nd | LTE Band 25 | - | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26590 | 1905 | 15.78 | 16.00 | 1.052 | - | - | 0.01 | 1.010 | 1.020 | 1.062 |
| 1st | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Front | 5 | Full | 23230 | 782 | 23.09 | 24.00 | 1.233 | - | - | 0.09 | 0.831 | 1 | 1.025 |
| 2nd | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Front | 5 | Full | 23230 | 782 | 23.09 | 24.00 | 1.233 | - | - | 0.07 | 0.822 | 1.011 | 1.014 |
| 1st | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 39750 | 2506 | 19.77 | 20.00 | 1.054 | 62.9 | 1.006 | 0.04 | 1.020 | 1 | 1.082 |
| 2nd | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 39750 | 2506 | 19.77 | 20.00 | 1.054 | 62.9 | 1.006 | -0.04 | 1.010 | 1.010 | 1.071 |
| 1st | WLAN 5.2GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | Hotspot On | 36 | 5180 | 13.94 | 15.00 | 1.276 | 87.96 | 1.137 | 0.02 | 0.810 | 1 | 1.176 |
| 2nd | WLAN 5.2GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | Hotspot On | 36 | 5180 | 13.94 | 15.00 | 1.276 | 87.96 | 1.137 | 0.01 | 0.805 | 1.006 | 1.168 |
| 1st | WLAN 5.3GHz | 802.11a 6Mbps | - | - | - | - | Front | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | 0.04 | 0.923 | 1 | 1.146 |
| 2nd | WLAN 5.3GHz | 802.11a 6Mbps | - | - | - | - | Front | 5 | P-Sensor On | 64 | 5320 | 16.12 | 16.50 | 1.092 | 87.96 | 1.137 | 0.01 | 0.918 | 1.005 | 1.140 |
| 1st | WLAN 5.5GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | P-Sensor On | 124 | 5620 | 16.68 | 17.50 | 1.208 | 87.96 | 1.137 | 0.08 | 0.850 | 1 | 1.167 |
| 2nd | WLAN 5.5GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | P-Sensor On | 124 | 5620 | 16.68 | 17.50 | 1.208 | 87.96 | 1.137 | -0.05 | 0.841 | 1.011 | 1.155 |
| 1st | WLAN 5.8GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | Hotspot On | 149 | 5745 | 15.17 | 15.50 | 1.080 | 87.96 | 1.137 | 0.01 | 0.801 | 1 | 0.983 |
| 2nd | WLAN 5.8GHz | 802.11a 6Mbps | - | - | - | - | Back | 5 | Hotspot On | 149 | 5745 | 15.17 | 15.50 | 1.080 | 87.96 | 1.137 | 0.09 | 0.795 | 1.008 | 0.976 |

### <10g SAR>

| No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | 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 | LTE Band 66 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 20.49 | 20.50 | 1.002 | 0.03 | 3.380 | 1 | 3.388 |
| 2nd | LTE Band 66 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 20.49 | 20.50 | 1.002 | 0.03 | 3.360 | 1.006 | 3.368 |
| 1st | LTE Band 25 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 21.24 | 21.50 | 1.062 | -0.01 | 3.410 | 1 | 3.620 |
| 2nd | LTE Band 25 | 20M | QPSK | 1 | 99 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 21.24 | 21.50 | 1.062 | -0.01 | 3.380 | 1.009 | 3.589 |

**General Note:**

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. 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.
3. 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.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

# 15. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations | Portable Handset | | | | Note |
|---|---|---|---|---|---|---|
| | | Head | Body-worn | Hotspot | Product specific 10g SAR | |
| 1. | GSM Voice + WLAN2.4GHz | Yes | Yes | | | |
| 2. | GPRS/EDGE + WLAN2.4GHz | Yes | Yes | Yes | Yes | WLAN Hotspot |
| 3. | WCDMA + WLAN2.4GHz | Yes | Yes | Yes | Yes | WLAN Hotspot |
| 4. | CDMA + WLAN2.4GHz | Yes | Yes | Yes | Yes | WLAN Hotspot |
| 5. | LTE + WLAN2.4GHz | Yes | Yes | Yes | Yes | WLAN Hotspot |
| 6. | GSM Voice + WLAN5.3/5.5GHz | Yes | Yes | | | |
| 7. | GPRS/EDGE + WLAN5.3/5.5GHz | Yes | Yes | | Yes | WLAN Direct (GC only) |
| 8. | WCDMA + WLAN5.3/5.5GHz | Yes | Yes | | Yes | WLAN Direct (GC only) |
| 9. | CDMA + WLAN5.3/5.5GHz | Yes | Yes | | Yes | WLAN Direct (GC only) |
| 10. | LTE + WLAN5.3/5.5GHz | Yes | Yes | | Yes | WLAN Direct (GC only) |
| 11. | GSM Voice + WLAN5.2/5.8GHz | Yes | Yes | | | |
| 12. | GPRS/EDGE + WLAN5.2/5.8GHz | Yes | Yes | Yes | Yes | WLAN Hotspot/Direct(GC/GO) |
| 13. | WCDMA + WLAN5.2/5.8GHz | Yes | Yes | Yes | Yes | WLAN Hotspot/Direct(GC/GO) |
| 14. | CDMA + WLAN5.2/5.8GHz | Yes | Yes | Yes | Yes | WLAN Hotspot/Direct(GC/GO) |
| 15. | LTE + WLAN5.2/5.8GHz | Yes | Yes | Yes | Yes | WLAN Hotspot/Direct(GC/GO) |
| 16. | GSM Voice + Bluetooth | | Yes | | | |
| 17. | GPRS/EDGE + Bluetooth | | Yes | Yes | Yes | BT Tethering |
| 18. | WCDMA + Bluetooth | | Yes | Yes | Yes | BT Tethering |
| 19. | CDMA + Bluetooth | | Yes | Yes | Yes | BT Tethering |
| 20. | LTE + Bluetooth | | Yes | Yes | Yes | BT Tethering |

**General Note:**

1. This device supports VoIP in GPRS, EGPRS, CDMA, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. EUT will choose each GSM, WCDMA, CDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
4. This device 2.4GHz WLAN/ 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).
5. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
6. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
7. According to the EUT character, WLAN 5GHz and Bluetooth can't transmit simultaneously.
8. Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
9. The reported SAR summation is calculated based on the same configuration and test position.
10. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
    i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
    ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
    iii) If SPLSR ≤ 0.04 for 1g SAR, SPLSR ≤ 0.10 for 10g SAR simultaneously transmission SAR measurement is not necessary.
    iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
    v) The SPLSR calculated results please refer to section 15.5.

## 15.1 Head Exposure Conditions

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 1+2 | | | 1+3 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | |
| GSM | GSM850 | Right Cheek | 1 | 0.418 | 0.740 | 0.789 | 1.16 | | | 1.21 | | |
| | | Right Tilted | 1 | 0.263 | 0.740 | 0.634 | 1.00 | | | 0.90 | | |
| | | Left Cheek | 1 | 0.327 | 0.472 | 1.100 | 0.80 | | | 1.43 | | |
| | | Left Tilted | 1 | 0.223 | 0.740 | 0.992 | 0.96 | | | 1.22 | | |
| | GSM1900 | Right Cheek | 1 | 0.151 | 0.740 | 0.789 | 0.89 | | | 0.94 | | |
| | | Right Tilted | 1 | 0.068 | 0.740 | 0.634 | 0.81 | | | 0.70 | | |
| | | Left Cheek | 1 | 0.134 | 0.472 | 1.100 | 0.61 | | | 1.23 | | |
| | | Left Tilted | 1 | 0.063 | 0.740 | 0.992 | 0.80 | | | 1.06 | | |
| WCDMA | Band V | Right Cheek | 1 | 0.440 | 0.740 | 0.789 | 1.18 | | | 1.23 | | |
| | | Right Tilted | 1 | 0.309 | 0.740 | 0.634 | 1.05 | | | 0.94 | | |
| | | Left Cheek | 1 | 0.344 | 0.472 | 1.100 | 0.82 | | | 1.44 | | |
| | | Left Tilted | 1 | 0.266 | 0.740 | 0.992 | 1.01 | | | 1.26 | | |
| | Band IV | Right Cheek | 1 | 0.414 | 0.740 | 0.789 | 1.15 | | | 1.20 | | |
| | | Right Tilted | 1 | 0.247 | 0.740 | 0.634 | 0.99 | | | 0.88 | | |
| | | Left Cheek | 1 | 0.488 | 0.472 | 1.100 | 0.96 | | | **1.59** | | |
| | | Left Tilted | 1 | 0.179 | 0.740 | 0.992 | 0.92 | | | 1.17 | | |
| | Band II | Right Cheek | 1 | 0.308 | 0.740 | 0.789 | 1.05 | | | 1.10 | | |
| | | Right Tilted | 1 | 0.156 | 0.740 | 0.634 | 0.90 | | | 0.79 | | |
| | | Left Cheek | 1 | 0.319 | 0.472 | 1.100 | 0.79 | | | 1.42 | | |
| | | Left Tilted | 1 | 0.139 | 0.740 | 0.992 | 0.88 | | | 1.13 | | |
| CDMA2000 | BC10 | Right Cheek | 1 | 0.436 | 0.740 | 0.789 | 1.18 | | | 1.23 | | |
| | | Right Tilted | 1 | 0.225 | 0.740 | 0.634 | 0.97 | | | 0.86 | | |
| | | Left Cheek | 1 | 0.309 | 0.472 | 1.100 | 0.78 | | | 1.41 | | |
| | | Left Tilted | 1 | 0.207 | 0.740 | 0.992 | 0.95 | | | 1.20 | | |
| | BC0 | Right Cheek | 1 | 0.398 | 0.740 | 0.789 | 1.14 | | | 1.19 | | |
| | | Right Tilted | 1 | 0.221 | 0.740 | 0.634 | 0.96 | | | 0.86 | | |
| | | Left Cheek | 1 | 0.315 | 0.472 | 1.100 | 0.79 | | | 1.42 | | |
| | | Left Tilted | 1 | 0.202 | 0.740 | 0.992 | 0.94 | | | 1.19 | | |
| | BC1 | Right Cheek | 1 | 0.239 | 0.740 | 0.789 | 0.98 | | | 1.03 | | |
| | | Right Tilted | 1 | 0.128 | 0.740 | 0.634 | 0.87 | | | 0.76 | | |
| | | Left Cheek | 1 | 0.235 | 0.472 | 1.100 | 0.71 | | | 1.34 | | |
| | | Left Tilted | 1 | 0.097 | 0.740 | 0.992 | 0.84 | | | 1.09 | | |

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 1+2 | | | 1+3 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | |
| LTE | Band 12 | Right Cheek | 1 | 0.337 | 0.740 | 0.789 | 1.08 | | | 1.13 | | |
| | | Right Tilted | 1 | 0.234 | 0.740 | 0.634 | 0.97 | | | 0.87 | | |
| | | Left Cheek | 1 | 0.312 | 0.472 | 1.100 | 0.78 | | | 1.41 | | |
| | | Left Tilted | 1 | 0.194 | 0.740 | 0.992 | 0.93 | | | 1.19 | | |
| | Band 13 | Right Cheek | 1 | 0.356 | 0.740 | 0.789 | 1.10 | | | 1.15 | | |
| | | Right Tilted | 1 | 0.238 | 0.740 | 0.634 | 0.98 | | | 0.87 | | |
| | | Left Cheek | 1 | 0.289 | 0.472 | 1.100 | 0.76 | | | 1.39 | | |
| | | Left Tilted | 1 | 0.192 | 0.740 | 0.992 | 0.93 | | | 1.18 | | |
| | Band 26 | Right Cheek | 1 | 0.360 | 0.740 | 0.789 | 1.10 | | | 1.15 | | |
| | | Right Tilted | 1 | 0.198 | 0.740 | 0.634 | 0.94 | | | 0.83 | | |
| | | Left Cheek | 1 | 0.275 | 0.472 | 1.100 | 0.75 | | | 1.38 | | |
| | | Left Tilted | 1 | 0.189 | 0.740 | 0.992 | 0.93 | | | 1.18 | | |
| | Band 66 | Right Cheek | 1 | 0.269 | 0.740 | 0.789 | 1.01 | | | 1.06 | | |
| | | Right Tilted | 1 | 0.119 | 0.740 | 0.634 | 0.86 | | | 0.75 | | |
| | | Left Cheek | 1 | 0.317 | 0.472 | 1.100 | 0.79 | | | 1.42 | | |
| | | Left Tilted | 1 | 0.138 | 0.740 | 0.992 | 0.88 | | | 1.13 | | |
| | Band 25 | Right Cheek | 1 | 0.247 | 0.740 | 0.789 | 0.99 | | | 1.04 | | |
| | | Right Tilted | 1 | 0.124 | 0.740 | 0.634 | 0.86 | | | 0.76 | | |
| | | Left Cheek | 1 | 0.199 | 0.472 | 1.100 | 0.67 | | | 1.30 | | |
| | | Left Tilted | 1 | 0.125 | 0.740 | 0.992 | 0.87 | | | 1.12 | | |
| | Band 30 | Right Cheek | 2 | 0.275 | 0.740 | 0.789 | 1.02 | | | 1.06 | | |
| | | Right Tilted | 2 | 0.285 | 0.740 | 0.634 | 1.03 | | | 0.92 | | |
| | | Left Cheek | 2 | 0.464 | 0.472 | 1.100 | 0.94 | | | 1.56 | | |
| | | Left Tilted | 2 | 0.145 | 0.740 | 0.992 | 0.89 | | | 1.14 | | |
| | | Right Cheek | 3 | 0.370 | 0.740 | 0.789 | 1.11 | | | 1.16 | | |
| | | Right Tilted | 3 | 0.100 | 0.740 | 0.634 | 0.84 | | | 0.73 | | |
| | | Left Cheek | 3 | 0.174 | 0.472 | 1.100 | 0.65 | | | 1.27 | | |
| | | Left Tilted | 3 | 0.130 | 0.740 | 0.992 | 0.87 | | | 1.12 | | |
| | Band 7 | Right Cheek | 2 | 0.427 | 0.740 | 0.789 | 1.17 | | | 1.22 | | |
| | | Right Tilted | 2 | 0.311 | 0.740 | 0.634 | 1.05 | | | 0.95 | | |
| | | Left Cheek | 2 | 0.864 | 0.472 | 1.100 | 1.34 | | | **1.96** | **0.03** | **#1** |
| | | Left Tilted | 2 | 0.195 | 0.740 | 0.992 | 0.94 | | | 1.19 | | |
| | | Right Cheek | 3 | 0.724 | 0.740 | 0.789 | 1.46 | | | 1.51 | | |
| | | Right Tilted | 3 | 0.187 | 0.740 | 0.634 | 0.93 | | | 0.82 | | |
| | | Left Cheek | 3 | 0.340 | 0.472 | 1.100 | 0.81 | | | 1.44 | | |
| | | Left Tilted | 3 | 0.241 | 0.740 | 0.992 | 0.98 | | | 1.23 | | |
| | Band 41 | Right Cheek | 2 | 0.258 | 0.740 | 0.789 | 1.00 | | | 1.05 | | |
| | | Right Tilted | 2 | 0.192 | 0.740 | 0.634 | 0.93 | | | 0.83 | | |
| | | Left Cheek | 2 | 0.524 | 0.472 | 1.100 | 1.00 | | | **1.62** | **0.02** | **#2** |
| | | Left Tilted | 2 | 0.125 | 0.740 | 0.992 | 0.87 | | | 1.12 | | |
| | | Right Cheek | 3 | 0.577 | 0.740 | 0.789 | 1.32 | | | 1.37 | | |
| | | Right Tilted | 3 | 0.135 | 0.740 | 0.634 | 0.88 | | | 0.77 | | |
| | | Left Cheek | 3 | 0.216 | 0.472 | 1.100 | 0.69 | | | 1.32 | | |
| | | Left Tilted | 3 | 0.151 | 0.740 | 0.992 | 0.89 | | | 1.14 | | |

## 15.2 Hotspot Exposure Conditions

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 4 | 1+2 | | | 1+3 | | | 1+4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | | |
| GSM | GSM850 | Front | 1 | 1.142 | 0.171 | 0.626 | 0.078 | 1.31 | | | **1.77** | **0.01** | **#3** | 1.22 | | |
| | | Back | 1 | 0.929 | 0.427 | 1.176 | 0.110 | 1.36 | | | **2.11** | **0.02** | **#4** | 1.04 | | |
| | | Left Side | 1 | 0.400 | | | | 0.40 | | | 0.40 | | | 0.40 | | |
| | | Right Side | 1 | 0.646 | 0.427 | 0.360 | 0.018 | 1.07 | | | 1.01 | | | 0.66 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.553 | | | | 0.55 | | | 0.55 | | | 0.55 | | |
| | GSM1900 | Front | 1 | 0.785 | 0.171 | 0.626 | 0.078 | 0.96 | | | 1.41 | | | 0.86 | | |
| | | Back | 1 | 0.645 | 0.427 | 1.176 | 0.110 | 1.07 | | | **1.82** | **0.02** | **#5** | 0.76 | | |
| | | Left Side | 1 | 0.110 | | | | 0.11 | | | 0.11 | | | 0.11 | | |
| | | Right Side | 1 | 0.032 | 0.427 | 0.360 | 0.018 | 0.46 | | | 0.39 | | | 0.05 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 1.073 | | | | 1.07 | | | 1.07 | | | 1.07 | | |
| WCDMA | Band V | Front | 1 | 0.940 | 0.171 | 0.626 | 0.078 | 1.11 | | | 1.57 | | | 1.02 | | |
| | | Back | 1 | 0.553 | 0.427 | 1.176 | 0.110 | 0.98 | | | **1.73** | **0.02** | **#6** | 0.66 | | |
| | | Left Side | 1 | 0.262 | | | | 0.26 | | | 0.26 | | | 0.26 | | |
| | | Right Side | 1 | 0.539 | 0.427 | 0.360 | 0.018 | 0.97 | | | 0.90 | | | 0.56 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.464 | | | | 0.46 | | | 0.46 | | | 0.46 | | |
| | Band IV | Front | 1 | 0.775 | 0.171 | 0.626 | 0.078 | 0.95 | | | 1.40 | | | 0.85 | | |
| | | Back | 1 | 0.428 | 0.427 | 1.176 | 0.110 | 0.86 | | | **1.60** | **0.01** | **#7** | 0.54 | | |
| | | Left Side | 1 | 0.088 | | | | 0.09 | | | 0.09 | | | 0.09 | | |
| | | Right Side | 1 | 0.044 | 0.427 | 0.360 | 0.018 | 0.47 | | | 0.40 | | | 0.06 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 1.031 | | | | 1.03 | | | 1.03 | | | 1.03 | | |
| | Band II | Front | 1 | 0.675 | 0.171 | 0.626 | 0.078 | 0.85 | | | 1.30 | | | 0.75 | | |
| | | Back | 1 | 0.549 | 0.427 | 1.176 | 0.110 | 0.98 | | | **1.73** | **0.02** | **#8** | 0.66 | | |
| | | Left Side | 1 | 0.100 | | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Right Side | 1 | 0.029 | 0.427 | 0.360 | 0.018 | 0.46 | | | 0.39 | | | 0.05 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 1.060 | | | | 1.06 | | | 1.06 | | | 1.06 | | |
| CDMA2000 | BC10 | Front | 1 | 0.924 | 0.171 | 0.626 | 0.078 | 1.10 | | | 1.55 | | | 1.00 | | |
| | | Back | 1 | 0.812 | 0.427 | 1.176 | 0.110 | 1.24 | | | **1.99** | **0.02** | **#9** | 0.92 | | |
| | | Left Side | 1 | 0.246 | | | | 0.25 | | | 0.25 | | | 0.25 | | |
| | | Right Side | 1 | 0.456 | 0.427 | 0.360 | 0.018 | 0.88 | | | 0.82 | | | 0.47 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.467 | | | | 0.47 | | | 0.47 | | | 0.47 | | |
| | BC0 | Front | 1 | 0.963 | 0.171 | 0.626 | 0.078 | 1.13 | | | **1.59** | | | 1.04 | | |
| | | Back | 1 | 0.935 | 0.427 | 1.176 | 0.110 | 1.36 | | | **2.11** | **0.02** | **#10** | 1.05 | | |
| | | Left Side | 1 | 0.242 | | | | 0.24 | | | 0.24 | | | 0.24 | | |
| | | Right Side | 1 | 0.485 | 0.427 | 0.360 | 0.018 | 0.91 | | | 0.85 | | | 0.50 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.466 | | | | 0.47 | | | 0.47 | | | 0.47 | | |
| | BC1 | Front | 1 | 0.732 | 0.171 | 0.626 | 0.078 | 0.90 | | | 1.36 | | | 0.81 | | |
| | | Back | 1 | 0.514 | 0.427 | 1.176 | 0.110 | 0.94 | | | **1.69** | **0.02** | **#11** | 0.62 | | |
| | | Left Side | 1 | 0.036 | | | | 0.04 | | | 0.04 | | | 0.04 | | |
| | | Right Side | 1 | 0.016 | 0.427 | 0.360 | 0.018 | 0.44 | | | 0.38 | | | 0.03 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 1.089 | | | | 1.09 | | | 1.09 | | | 1.09 | | |

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 4 | 1+2 | | | 1+3 | | | 1+4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | | |
| LTE | Band 12 | Front | 1 | 0.661 | 0.171 | 0.626 | 0.078 | 0.83 | | | 1.29 | | | 0.74 | | |
| | | Back | 1 | 0.576 | 0.427 | 1.176 | 0.110 | 1.00 | | | **1.75** | **0.02** | **#12** | 0.69 | | |
| | | Left Side | 1 | 0.395 | | | | 0.40 | | | 0.40 | | | 0.40 | | |
| | | Right Side | 1 | 0.554 | 0.427 | 0.360 | 0.018 | 0.98 | | | 0.91 | | | 0.57 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.375 | | | | 0.38 | | | 0.38 | | | 0.38 | | |
| | Band 13 | Front | 1 | 1.025 | 0.171 | 0.626 | 0.078 | 1.20 | | | **1.65** | **0.01** | **#13** | 1.10 | | |
| | | Back | 1 | 0.954 | 0.427 | 1.176 | 0.110 | 1.38 | | | **2.13** | **0.02** | **#14** | 1.06 | | |
| | | Left Side | 1 | 0.424 | | | | 0.42 | | | 0.42 | | | 0.42 | | |
| | | Right Side | 1 | 0.599 | 0.427 | 0.360 | 0.018 | 1.03 | | | 0.96 | | | 0.62 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.577 | | | | 0.58 | | | 0.58 | | | 0.58 | | |
| | Band 26 | Front | 1 | 1.053 | 0.171 | 0.626 | 0.078 | 1.22 | | | **1.68** | **0.01** | **#15** | 1.13 | | |
| | | Back | 1 | 1.042 | 0.427 | 1.176 | 0.110 | 1.47 | | | **2.22** | **0.02** | **#16** | 1.15 | | |
| | | Left Side | 1 | 0.260 | | | | 0.26 | | | 0.26 | | | 0.26 | | |
| | | Right Side | 1 | 0.651 | 0.427 | 0.360 | 0.018 | 1.08 | | | 1.01 | | | 0.67 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.697 | | | | 0.70 | | | 0.70 | | | 0.70 | | |
| | Band 66 | Front | 1 | 0.603 | 0.171 | 0.626 | 0.078 | 0.77 | | | 1.23 | | | 0.68 | | |
| | | Back | 1 | 0.399 | 0.427 | 1.176 | 0.110 | 0.83 | | | 1.58 | | | 0.51 | | |
| | | Left Side | 1 | 0.076 | | | | 0.08 | | | 0.08 | | | 0.08 | | |
| | | Right Side | 1 | 0.035 | 0.427 | 0.360 | 0.018 | 0.46 | | | 0.40 | | | 0.05 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 0.928 | | | | 0.93 | | | 0.93 | | | 0.93 | | |
| | Band 25 | Front | 1 | 0.702 | 0.171 | 0.626 | 0.078 | 0.87 | | | 1.33 | | | 0.78 | | |
| | | Back | 1 | 0.503 | 0.427 | 1.176 | 0.110 | 0.93 | | | **1.68** | **0.02** | **#17** | 0.61 | | |
| | | Left Side | 1 | 0.091 | | | | 0.09 | | | 0.09 | | | 0.09 | | |
| | | Right Side | 1 | 0.029 | 0.427 | 0.360 | 0.018 | 0.46 | | | 0.39 | | | 0.05 | | |
| | | Top Side | 1 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 1 | 1.084 | | | | 1.08 | | | 1.08 | | | 1.08 | | |

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 4 | 1+2 | | | 1+3 | | | 1+4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | | |
| LTE | Band 30 | Front | 2 | 0.704 | 0.171 | 0.626 | 0.078 | 0.88 | | | 1.33 | | | 0.78 | | |
| | | Back | 2 | 0.735 | 0.427 | 1.176 | 0.110 | 1.16 | | | **1.91** | **0.02** | **#18** | 0.85 | | |
| | | Left Side | 2 | 0.461 | | | | 0.46 | | | 0.46 | | | 0.46 | | |
| | | Right Side | 2 | | 0.427 | 0.360 | 0.018 | 0.43 | | | 0.36 | | | 0.02 | | |
| | | Top Side | 2 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 2 | 0.095 | | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Front | 3 | 0.781 | 0.171 | 0.626 | 0.078 | 0.95 | | | 1.41 | | | 0.86 | | |
| | | Back | 3 | 0.637 | 0.427 | 1.176 | 0.110 | 1.06 | | | **1.81** | **0.02** | **#19** | 0.75 | | |
| | | Right Side | 3 | 0.453 | 0.427 | 0.360 | 0.018 | 0.88 | | | 0.81 | | | 0.47 | | |
| | | Top Side | 3 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 3 | 0.108 | | | | 0.11 | | | 0.11 | | | 0.11 | | |
| | Band 7 | Front | 2 | 0.833 | 0.171 | 0.626 | 0.078 | 1.00 | | | 1.46 | | | 0.91 | | |
| | | Back | 2 | 0.621 | 0.427 | 1.176 | 0.110 | 1.05 | | | **1.80** | **0.02** | **#20** | 0.73 | | |
| | | Left Side | 2 | 0.526 | | | | 0.53 | | | 0.53 | | | 0.53 | | |
| | | Right Side | 2 | | 0.427 | 0.360 | 0.018 | 0.43 | | | 0.36 | | | 0.02 | | |
| | | Top Side | 2 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 2 | 0.100 | | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Front | 3 | 0.961 | 0.171 | 0.626 | 0.078 | 1.13 | | | **1.59** | | | 1.04 | | |
| | | Back | 3 | 0.664 | 0.427 | 1.176 | 0.110 | 1.09 | | | **1.84** | **0.02** | **#21** | 0.77 | | |
| | | Right Side | 3 | 0.562 | 0.427 | 0.360 | 0.018 | 0.99 | | | 0.92 | | | 0.58 | | |
| | | Top Side | 3 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 3 | 0.069 | | | | 0.07 | | | 0.07 | | | 0.07 | | |
| | Band 41 | Front | 2 | 0.956 | 0.171 | 0.626 | 0.078 | 1.13 | | | 1.58 | | | 1.03 | | |
| | | Back | 2 | 0.548 | 0.427 | 1.176 | 0.110 | 0.98 | | | **1.72** | **0.02** | **#22** | 0.66 | | |
| | | Left Side | 2 | 0.432 | | | | 0.43 | | | 0.43 | | | 0.43 | | |
| | | Right Side | 2 | | 0.427 | 0.360 | 0.018 | 0.43 | | | 0.36 | | | 0.02 | | |
| | | Top Side | 2 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 2 | 0.185 | | | | 0.19 | | | 0.19 | | | 0.19 | | |
| | | Front | 3 | 1.082 | 0.171 | 0.626 | 0.078 | 1.25 | | | **1.71** | **0.02** | **#23** | 1.16 | | |
| | | Back | 3 | 0.453 | 0.427 | 1.176 | 0.110 | 0.88 | | | **1.63** | **0.02** | **#24** | 0.56 | | |
| | | Right Side | 3 | 0.269 | 0.427 | 0.360 | 0.018 | 0.70 | | | 0.63 | | | 0.29 | | |
| | | Top Side | 3 | | 0.427 | 0.522 | 0.072 | 0.43 | | | 0.52 | | | 0.07 | | |
| | | Bottom Side | 3 | 0.024 | | | | 0.02 | | | 0.02 | | | 0.02 | | |

## 15.3 Body-Worn Accessory Exposure Conditions

| WWAN Band | | Exposure Position | 1 | | 2 | 3 | 4 | 1+2 | | | 1+3 | | | 1+4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WWAN | | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No | Summed 1g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | | |
| GSM | GSM850 | Front | 1 | 1.142 | 0.171 | 1.167 | 0.078 | 1.31 | | | **2.31** | **0.02** | **#25** | 1.22 | | |
| | | Back | 1 | 0.929 | 0.427 | 1.167 | 0.110 | 1.36 | | | **2.10** | **0.02** | **#26** | 1.04 | | |
| | GSM1900 | Front | 1 | 0.785 | 0.171 | 1.167 | 0.078 | 0.96 | | | **1.95** | **0.02** | **#27** | 0.86 | | |
| | | Back | 1 | 0.645 | 0.427 | 1.167 | 0.110 | 1.07 | | | **1.81** | **0.02** | **#28** | 0.76 | | |
| WCDMA | Band V | Front | 1 | 0.940 | 0.171 | 1.167 | 0.078 | 1.11 | | | **2.11** | **0.02** | **#29** | 1.02 | | |
| | | Back | 1 | 0.553 | 0.427 | 1.167 | 0.110 | 0.98 | | | **1.72** | **0.01** | **#30** | 0.66 | | |
| | Band IV | Front | 1 | 0.775 | 0.171 | 1.167 | 0.078 | 0.95 | | | **1.94** | **0.02** | **#31** | 0.85 | | |
| | | Back | 1 | 0.428 | 0.427 | 1.167 | 0.110 | 0.86 | | | **1.60** | **0.01** | **#32** | 0.54 | | |
| | Band II | Front | 1 | 0.675 | 0.171 | 1.167 | 0.078 | 0.85 | | | **1.84** | **0.02** | **#33** | 0.75 | | |
| | | Back | 1 | 0.549 | 0.427 | 1.167 | 0.110 | 0.98 | | | **1.72** | **0.02** | **#34** | 0.66 | | |
| CDMA2000 | BC10 | Front | 1 | 1.264 | 0.171 | 1.167 | 0.078 | 1.44 | | | **2.43** | **0.03** | **#35** | 1.34 | | |
| | | Back | 1 | 1.115 | 0.427 | 1.167 | 0.110 | 1.54 | | | **2.28** | **0.03** | **#36** | 1.23 | | |
| | | Front with Headset | 1 | 0.952 | 0.163 | 1.034 | 0.060 | 1.12 | | | **1.99** | **0.02** | **#37** | 1.01 | | |
| | BC0 | Front | 1 | 1.405 | 0.171 | 1.167 | 0.078 | **1.58** | | | **2.57** | **0.03** | **#38** | **1.48** | | |
| | | Back | 1 | 1.014 | 0.427 | 1.167 | 0.110 | 1.44 | | | **2.18** | **0.02** | **#39** | 1.12 | | |
| | | Front with Headset | 1 | 0.768 | 0.163 | 1.034 | 0.060 | 0.93 | | | **1.80** | **0.02** | **#40** | 0.83 | | |
| | BC1 | Front | 1 | 0.732 | 0.171 | 1.167 | 0.078 | 0.90 | | | **1.90** | **0.02** | **#41** | 0.81 | | |
| | | Back | 1 | 0.558 | 0.427 | 1.167 | 0.110 | 0.99 | | | **1.73** | **0.02** | **#42** | 0.67 | | |
| LTE | Band 12 | Front | 1 | 0.661 | 0.171 | 1.167 | 0.078 | 0.83 | | | **1.83** | **0.02** | **#43** | 0.74 | | |
| | | Back | 1 | 0.576 | 0.427 | 1.167 | 0.110 | 1.00 | | | **1.74** | **0.02** | **#44** | 0.69 | | |
| | Band 13 | Front | 1 | 1.025 | 0.171 | 1.167 | 0.078 | 1.20 | | | **2.19** | **0.02** | **#45** | 1.10 | | |
| | | Back | 1 | 0.954 | 0.427 | 1.167 | 0.110 | 1.38 | | | **2.12** | **0.02** | **#46** | 1.06 | | |
| | Band 26 | Front | 1 | 1.053 | 0.171 | 1.167 | 0.078 | 1.22 | | | **2.22** | **0.02** | **#47** | 1.13 | | |
| | | Back | 1 | 1.042 | 0.427 | 1.167 | 0.110 | 1.47 | | | **2.21** | **0.02** | **#48** | 1.15 | | |
| | Band 66 | Front | 1 | 0.603 | 0.171 | 1.167 | 0.078 | 0.77 | | | **1.77** | **0.02** | **#49** | 0.68 | | |
| | | Back | 1 | 0.399 | 0.427 | 1.167 | 0.110 | 0.83 | | | 1.57 | | | 0.51 | | |
| | Band 25 | Front | 1 | 0.702 | 0.171 | 1.167 | 0.078 | 0.87 | | | **1.87** | **0.02** | **#50** | 0.78 | | |
| | | Back | 1 | 0.503 | 0.427 | 1.167 | 0.110 | 0.93 | | | **1.67** | **0.02** | **#51** | 0.61 | | |
| | Band 30 | Front | 2 | 0.704 | 0.171 | 1.167 | 0.078 | 0.88 | | | **1.87** | **0.02** | **#52** | 0.78 | | |
| | | Back | 2 | 0.735 | 0.427 | 1.167 | 0.110 | 1.16 | | | **1.90** | **0.02** | **#53** | 0.85 | | |
| | | Front | 3 | 0.781 | 0.171 | 1.167 | 0.078 | 0.95 | | | **1.95** | **0.02** | **#54** | 0.86 | | |
| | | Back | 3 | 0.637 | 0.427 | 1.167 | 0.110 | 1.06 | | | **1.80** | **0.02** | **#55** | 0.75 | | |
| | Band 7 | Front | 2 | 0.833 | 0.171 | 1.167 | 0.078 | 1.00 | | | **2.00** | **0.02** | **#56** | 0.91 | | |
| | | Back | 2 | 0.621 | 0.427 | 1.167 | 0.110 | 1.05 | | | **1.79** | **0.02** | **#57** | 0.73 | | |
| | | Front | 3 | 0.961 | 0.171 | 1.167 | 0.078 | 1.13 | | | **2.13** | **0.03** | **#58** | 1.04 | | |
| | | Back | 3 | 0.664 | 0.427 | 1.167 | 0.110 | 1.09 | | | **1.83** | **0.02** | **#59** | 0.77 | | |
| | Band 41 | Front | 2 | 0.956 | 0.171 | 1.167 | 0.078 | 1.13 | | | **2.12** | **0.03** | **#60** | 1.03 | | |
| | | Back | 2 | 0.548 | 0.427 | 1.167 | 0.110 | 0.98 | | | **1.72** | **0.02** | **#61** | 0.66 | | |
| | | Front | 3 | 1.082 | 0.171 | 1.167 | 0.078 | 1.25 | | | **2.25** | **0.03** | **#62** | 1.16 | | |
| | | Back | 3 | 0.453 | 0.427 | 1.167 | 0.110 | 0.88 | | | **1.62** | **0.02** | **#63** | 0.56 | | |

## 15.4 Product specific 10g SAR Exposure Conditions

| WWAN Band | | Exposure Position | 1 | | 2 | 1+2 | | |
|---|---|---|---|---|---|---|---|---|
| | | | WWAN Bottom | | 5GHz WLAN | Summed 10g SAR (W/kg) | SPLSR | Case No |
| | | | Ant. | 10g SAR (W/kg) | 10g SAR (W/kg) | | | |
| GSM | GSM1900 | Front | 1 | 3.131 | 2.002 | **5.13** | **0.08** | **#64** |
| | | Back | 1 | 2.582 | 0.803 | 3.39 | | |
| | | Bottom Side | 1 | 3.403 | | 3.40 | | |
| WCDMA | Band IV | Front | 1 | 1.806 | 2.002 | **3.81** | | |
| | | Back | 1 | 1.397 | 0.803 | 2.20 | | |
| | | Bottom Side | 1 | 2.777 | | 2.78 | | |
| | Band II | Front | 1 | 2.446 | 2.002 | **4.45** | **0.06** | **#65** |
| | | Back | 1 | 1.886 | 0.803 | 2.69 | | |
| | | Bottom Side | 1 | 2.861 | | 2.86 | | |
| CDMA2000 | BC1 | Front | 1 | 3.289 | 2.002 | **5.29** | **0.08** | **#66** |
| | | Back | 1 | 2.910 | 0.803 | 3.71 | | |
| | | Bottom Side | 1 | 3.096 | | 3.10 | | |
| LTE | Band 66 | Front | 1 | 2.859 | 2.002 | **4.86** | **0.07** | **#67** |
| | | Back | 1 | 2.302 | 0.803 | 3.11 | | |
| | | Bottom Side | 1 | 3.397 | | 3.40 | | |
| | Band 25 | Front | 1 | 2.995 | 2.002 | **5.00** | **0.07** | **#68** |
| | | Back | 1 | 2.537 | 0.803 | 3.34 | | |
| | | Bottom Side | 1 | 3.620 | | 3.62 | | |
| | Band 30 | Front | 2 | 0.957 | 2.002 | 2.96 | | |
| | | Back | 2 | 1.024 | 0.803 | 1.83 | | |
| | | Left Side | 2 | 0.889 | | 0.89 | | |
| | | Front | 3 | 1.281 | 2.002 | 3.28 | | |
| | | Back | 3 | 1.054 | 0.803 | 1.86 | | |
| | | Right Side | 3 | 0.884 | 2.002 | 2.89 | | |
| | Band 7 | Front | 2 | 1.092 | 2.002 | 3.09 | | |
| | | Back | 2 | 1.033 | 0.803 | 1.84 | | |
| | | Left Side | 2 | 0.975 | | 0.98 | | |
| | | Front | 3 | 1.004 | 2.002 | 3.01 | | |
| | | Back | 3 | 1.108 | 0.803 | 1.91 | | |
| | | Right Side | 3 | 0.824 | 2.002 | 2.83 | | |
| | Band 41 | Front | 2 | 0.635 | 2.002 | 2.64 | | |
| | | Back | 2 | 0.547 | 0.803 | 1.35 | | |
| | | Front | 3 | 0.534 | 2.002 | 2.54 | | |
| | | Back | 3 | 0.594 | 0.803 | 1.40 | | |

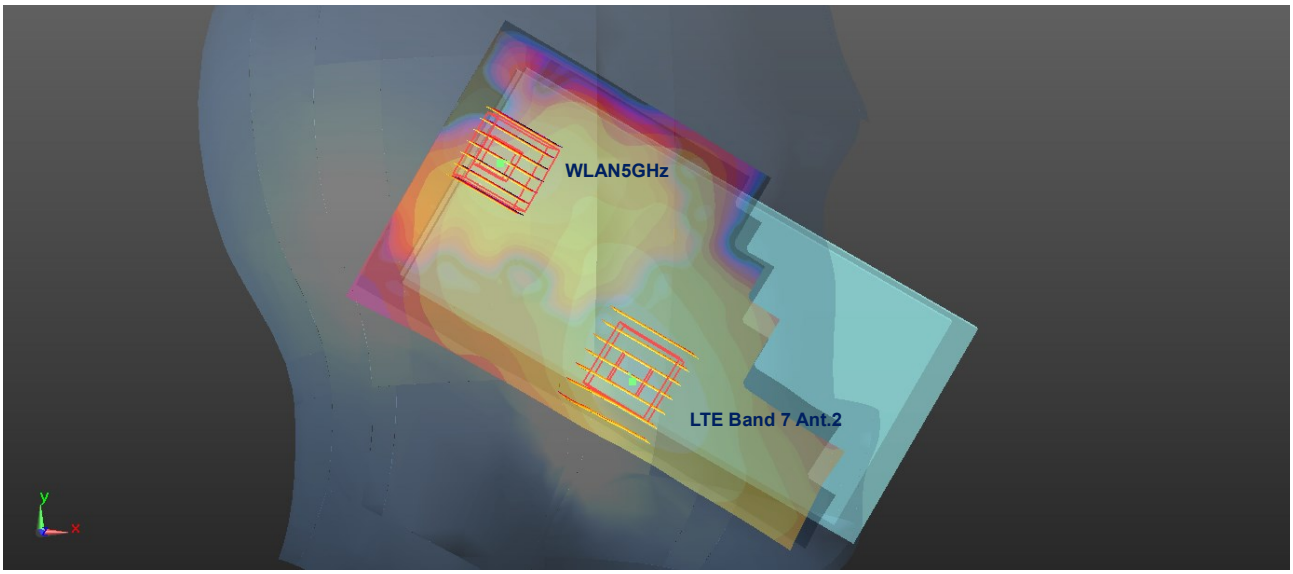
**Remark:** For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

## 15.5 SPLSR Evaluation and Analysis

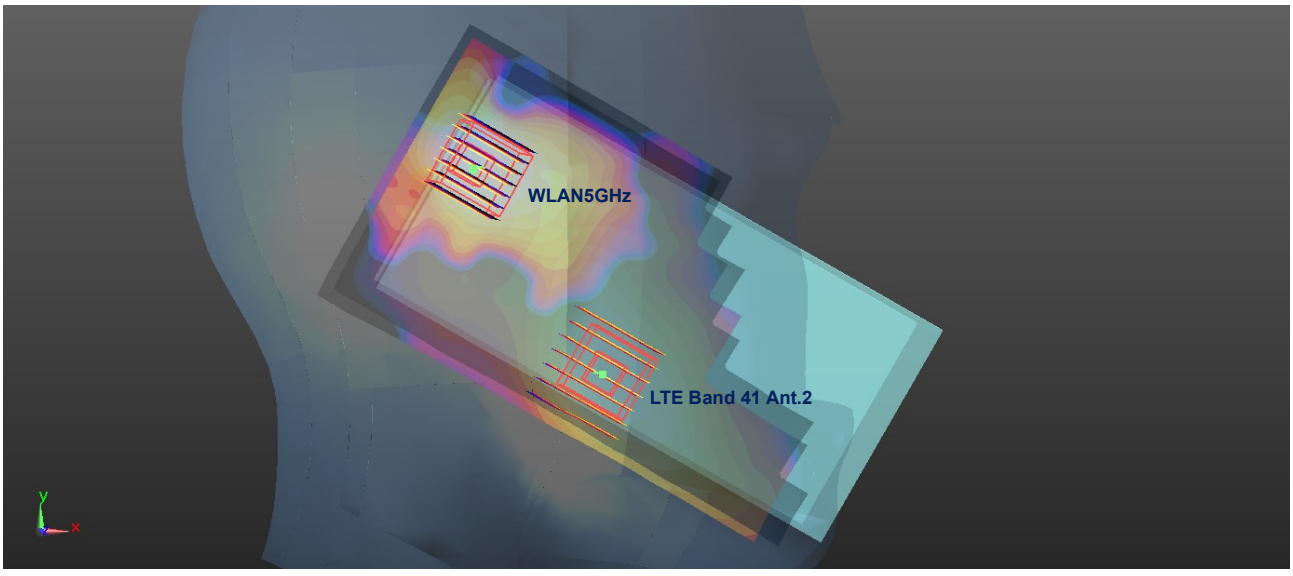
**General Note:**

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 = $(SAR_1 + SAR_2)^{1.5}$ / (*min. separation distance, mm*). If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

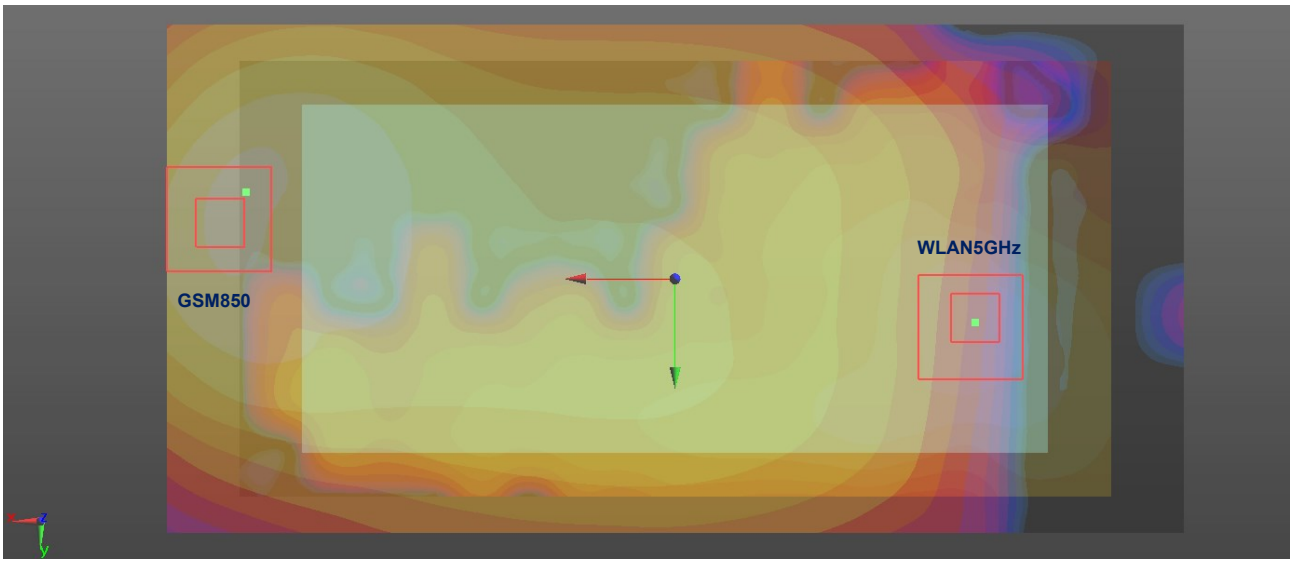
| Case #1 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.2 | Left Cheek | 0.864 | 0 | 4.51 | -5.92 | -0.19 | 81.4 | 1.96 | 0.03 | Not required |
| | WLAN5GHz | | 1.100 | 0 | 0.33 | 1.06 | 0 | | | | |



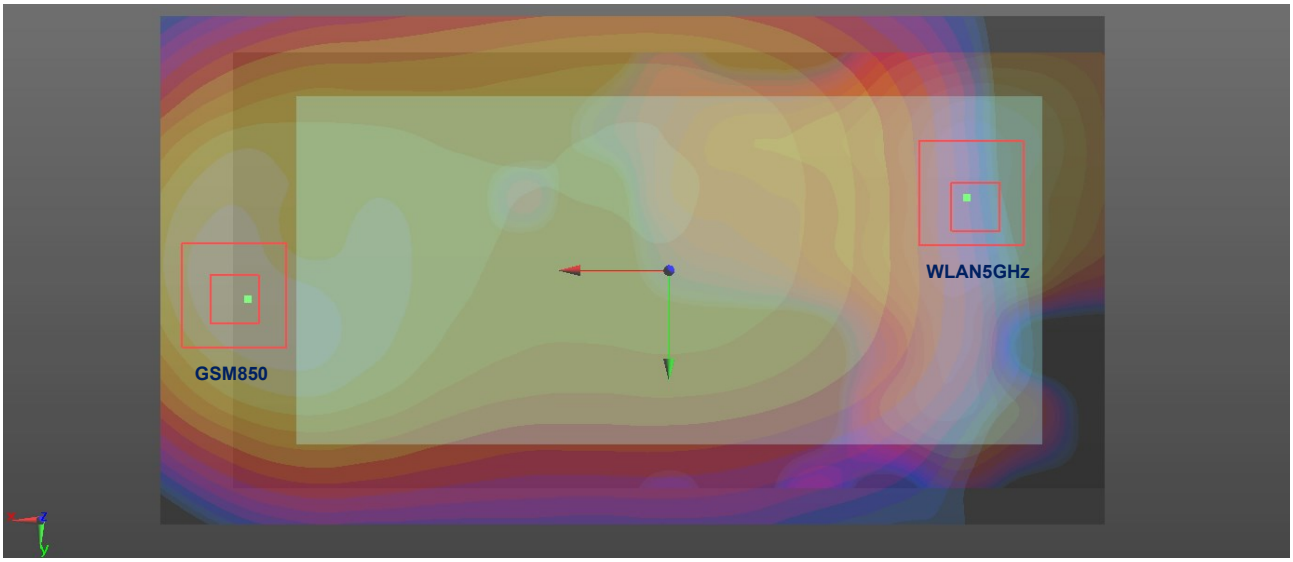

| Case #2 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.2 | Left Cheek | 0.524 | 0 | 4.79 | -5.93 | -0.1 | 82.9 | 1.62 | 0.02 | Not required |
| | WLAN5GHz | | 1.100 | 0 | 0.33 | 1.06 | 0 | | | | |



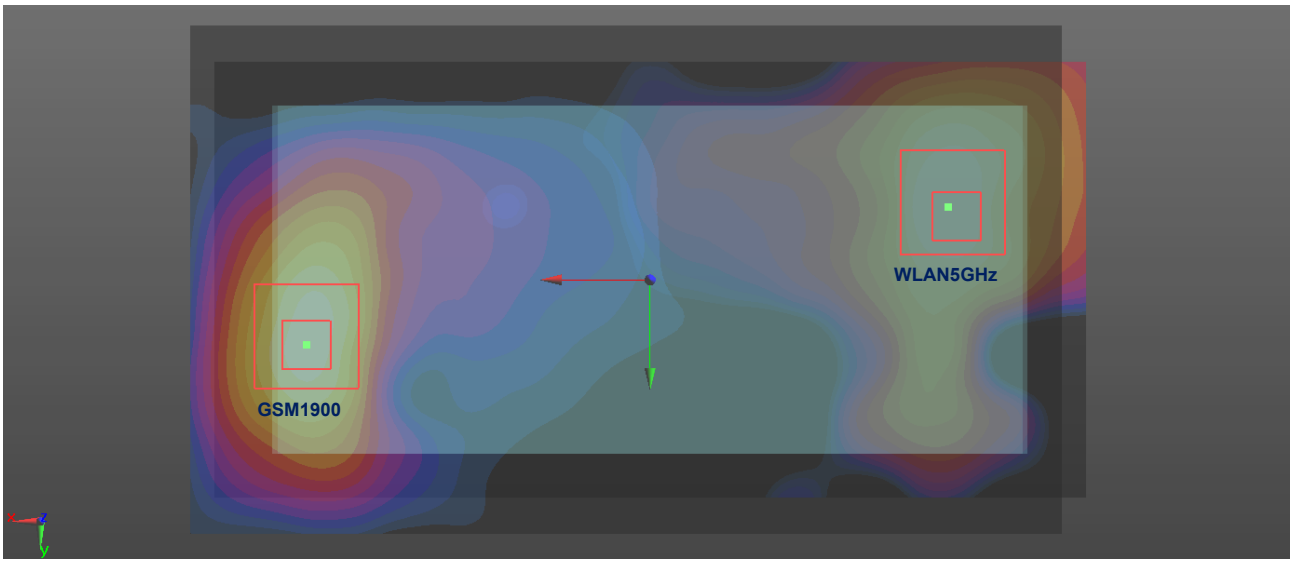
| | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Case #3 | GSM850 | Front | 1.142 | 5 | 9.33 | -1.16 | 0.4 | 159.1 | 1.77 | 0.01 | Not required |
| | WLAN5GHz | | 0.626 | 5 | -6.44 | 0.98 | 0.37 | | | | |



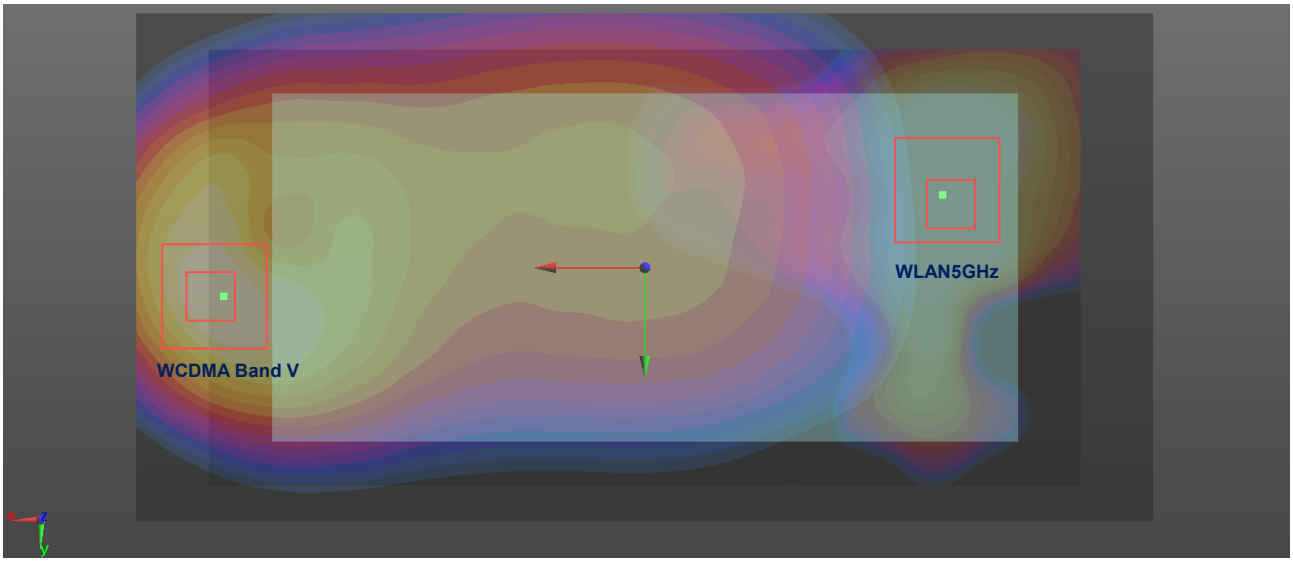

| | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Case #4 | GSM850 | Back | 0.929 | 5 | 9.02 | 0.6 | 0.39 | 154.2 | 2.11 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



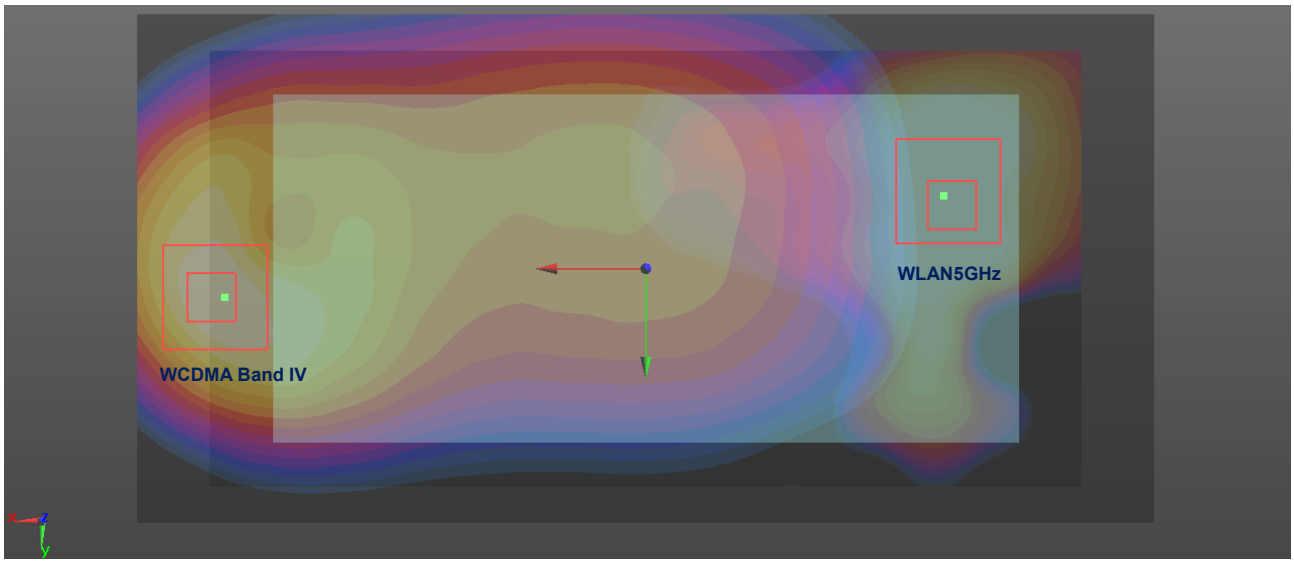
| | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Case #5 | GSM1900 | Back | 0.645 | 5 | 7.4 | 0.27 | 0.41 | 137.8 | 1.82 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



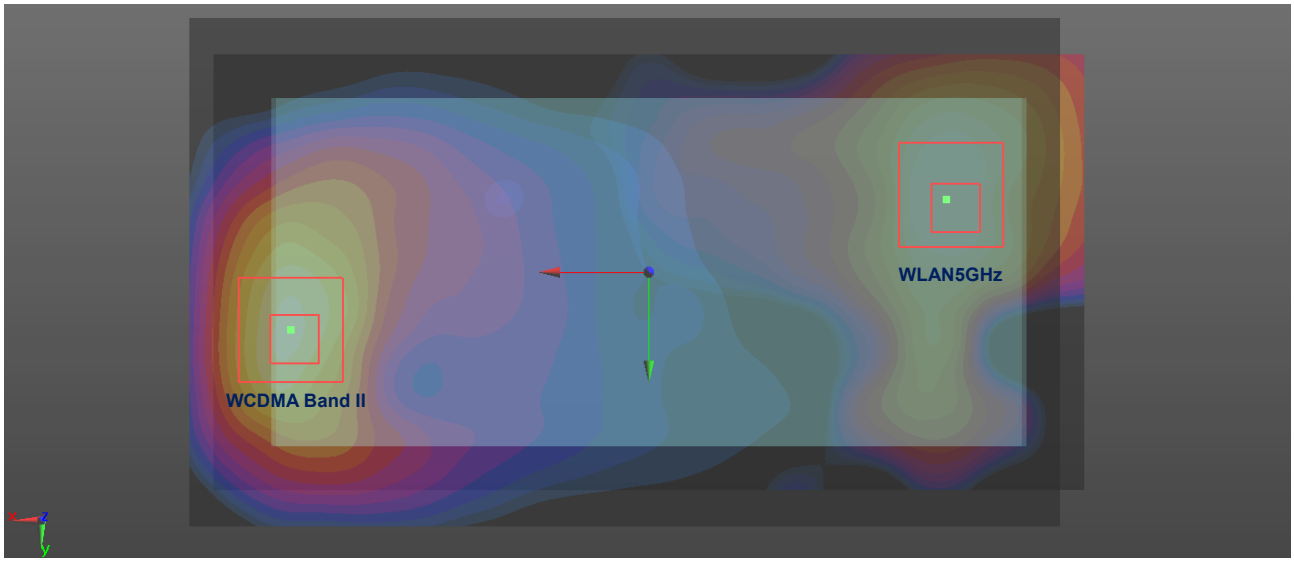

| | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Case #6 | WCDMA Band V | Back | 0.553 | 5 | 8.7 | 0.92 | 0.39 | 151.5 | 1.73 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



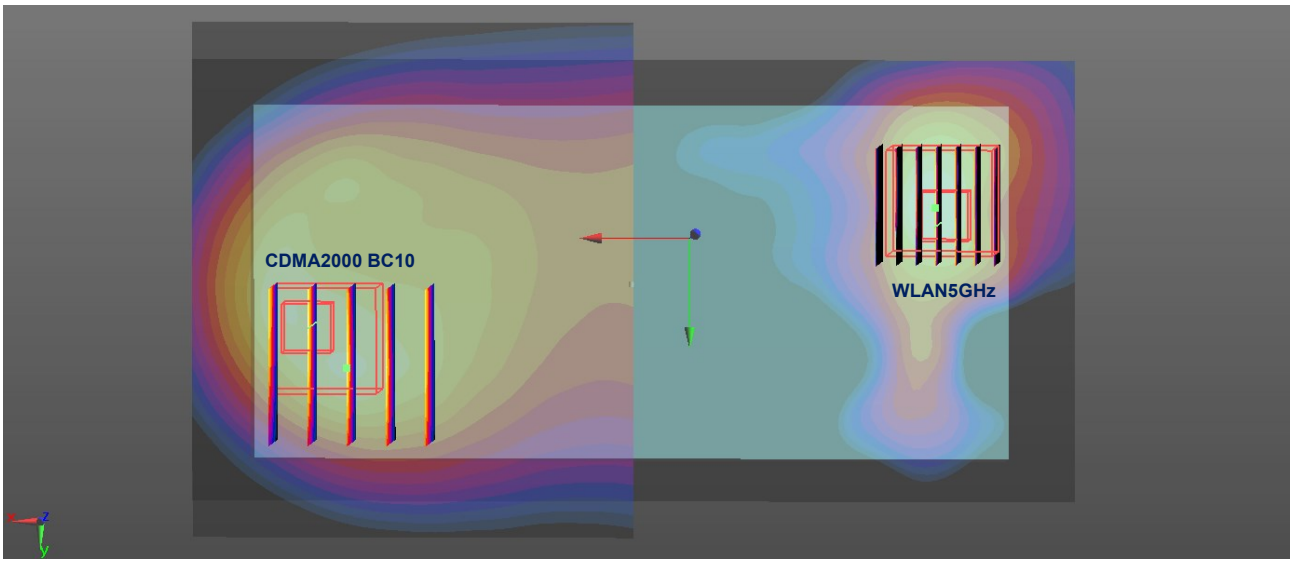
| Case #7 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band IV | Back | 0.428 | 5 | 8.65 | -0.45 | 0.44 | 149.7 | 1.60 | 0.01 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



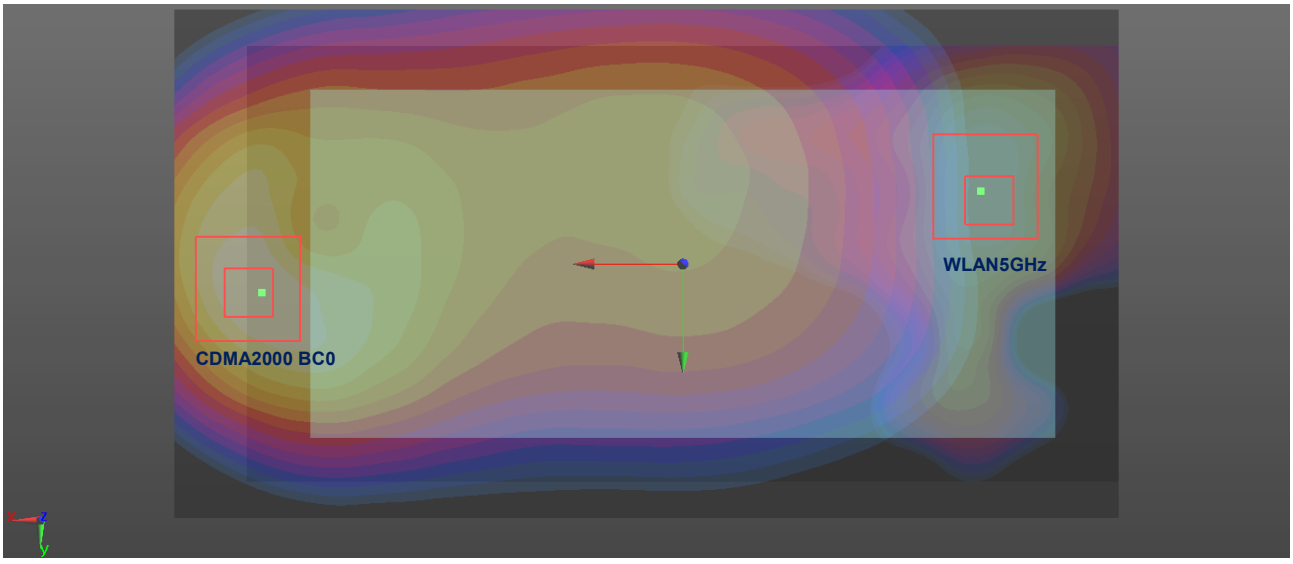

| Case #8 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band II | Back | 0.549 | 5 | 7.4 | 0.27 | 0.41 | 137.8 | 1.73 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



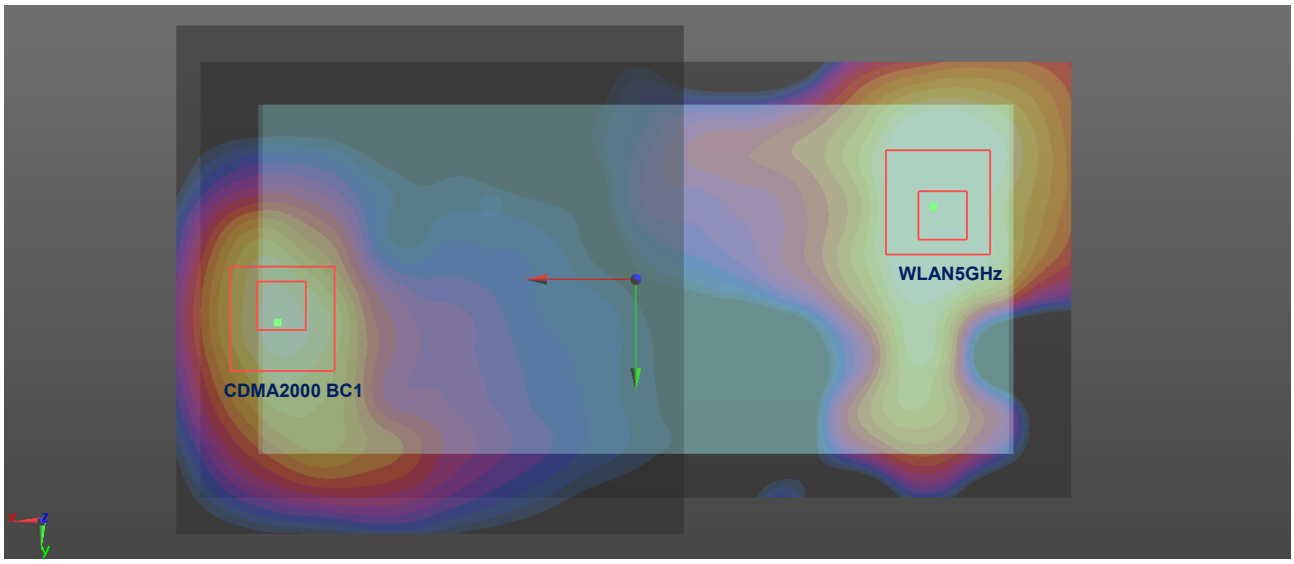
| Case #9 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC10 | Back | 0.812 | 5 | 6.65 | 1 | 0.39 | 131.3 | 1.99 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



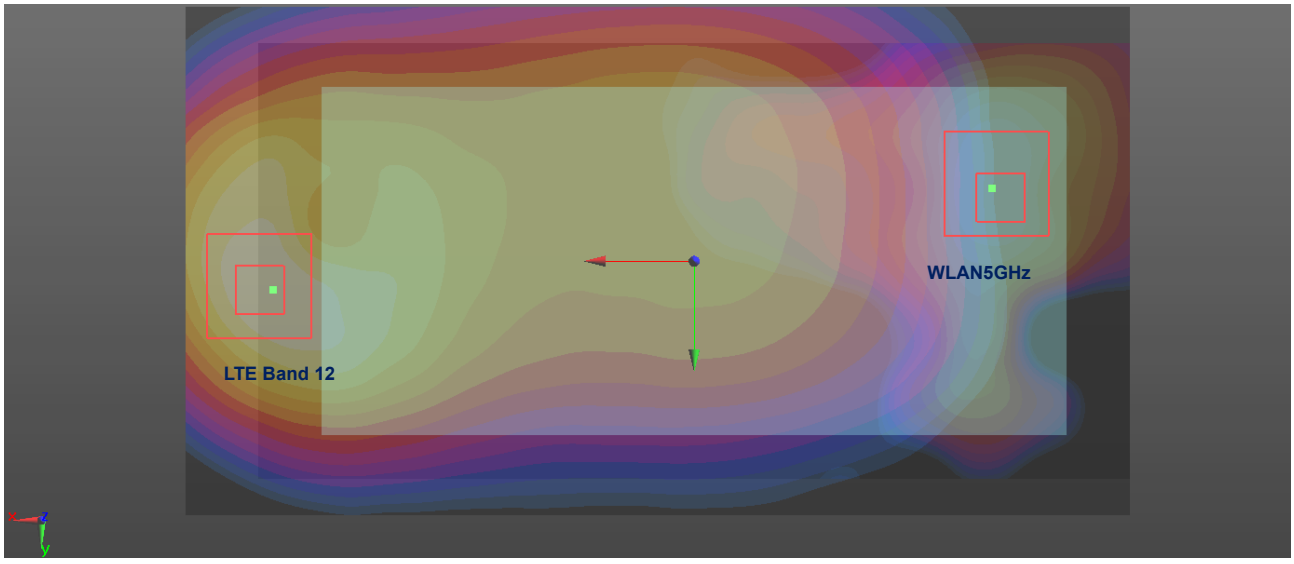

| Case #10 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC0 | Back | 0.935 | 5 | 9.02 | 0.6 | 0.39 | 154.2 | 2.11 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



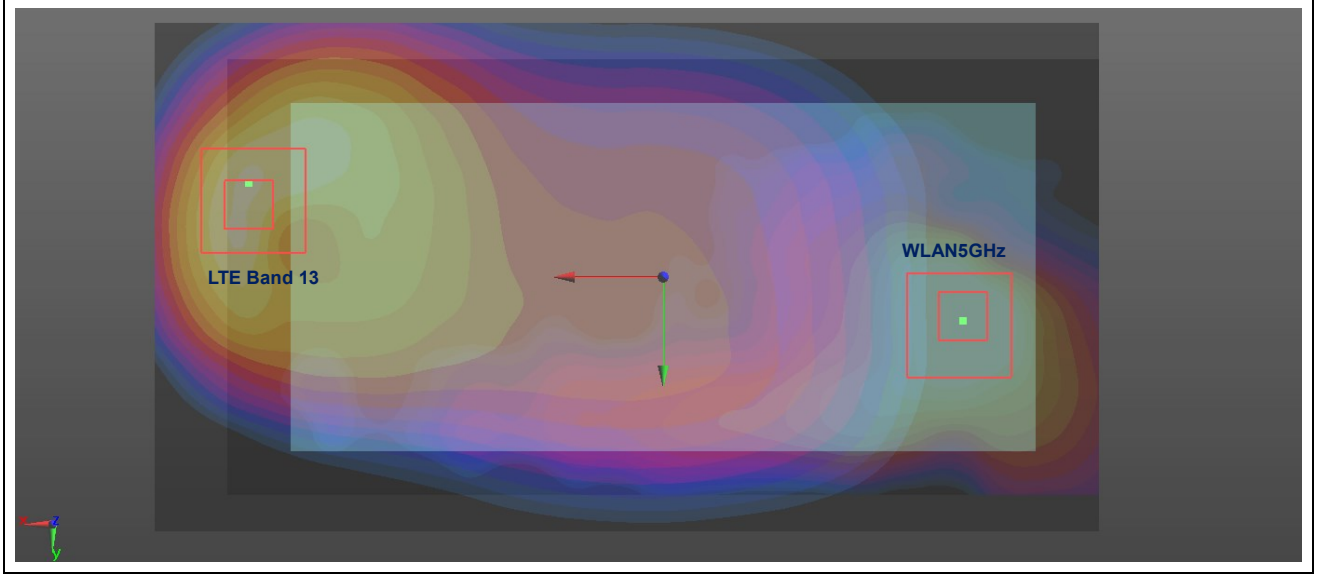
| Case #11 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC1 | Back | 0.514 | 5 | 7.4 | 0.27 | 0.41 | 137.8 | 1.69 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



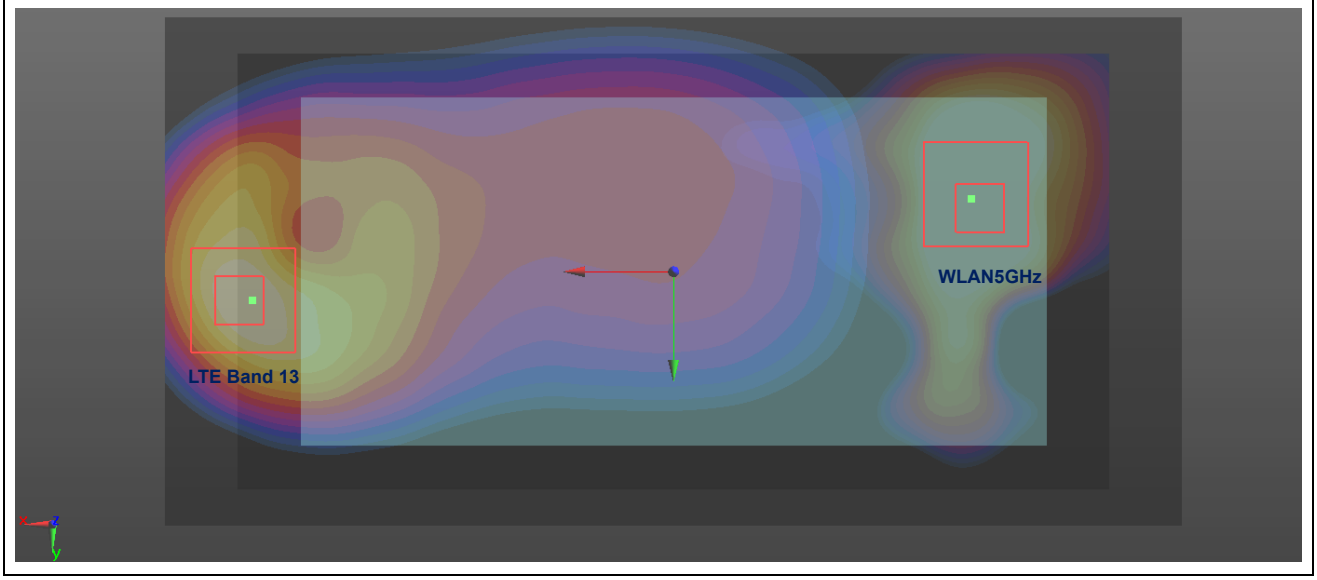

| Case #12 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 12 | Back | 0.576 | 5 | 8.7 | 0.92 | 0.39 | 151.5 | 1.75 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



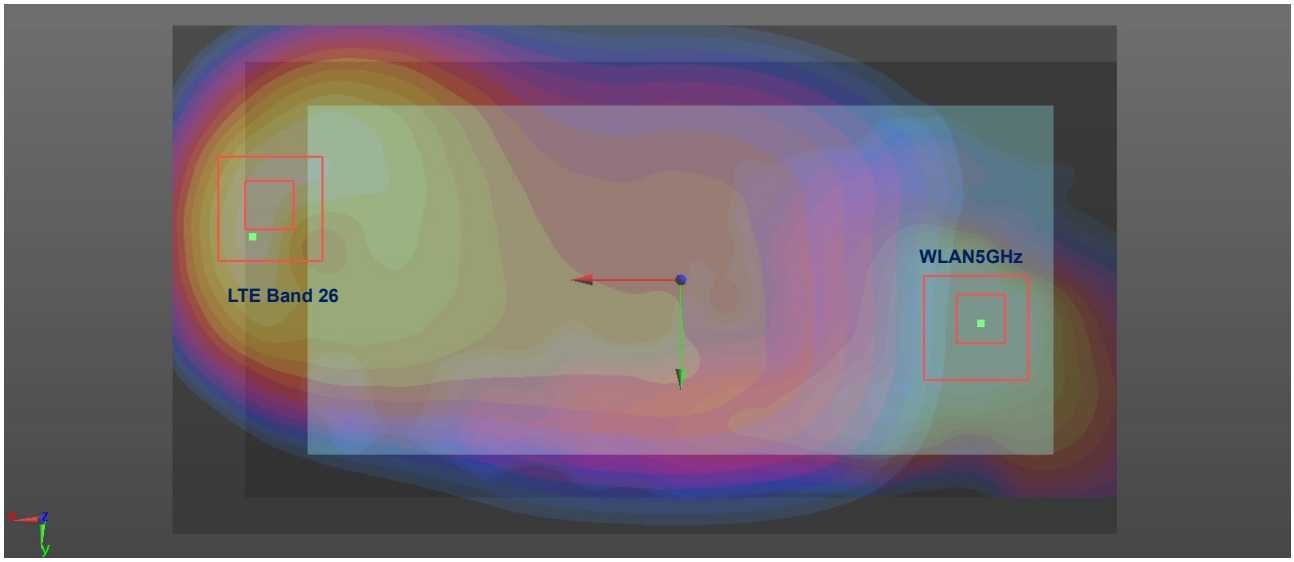
| Case #13 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 13 | Front | 1.025 | 5 | 8.69 | -1.07 | 0.39 | 152.7 | 1.65 | 0.01 | Not required |
| | WLAN5GHz | | 0.626 | 5 | -6.44 | 0.98 | 0.37 | | | | |



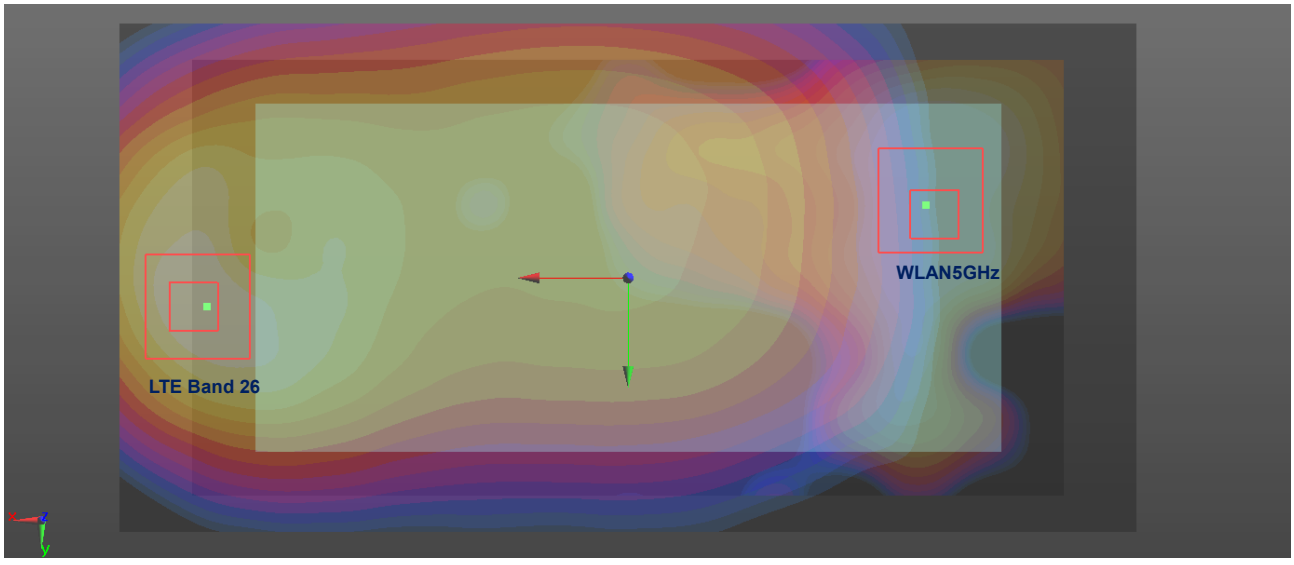

| Case #14 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 13 | Back | 0.954 | 5 | 8.7 | 0.92 | 0.39 | 151.5 | 2.13 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



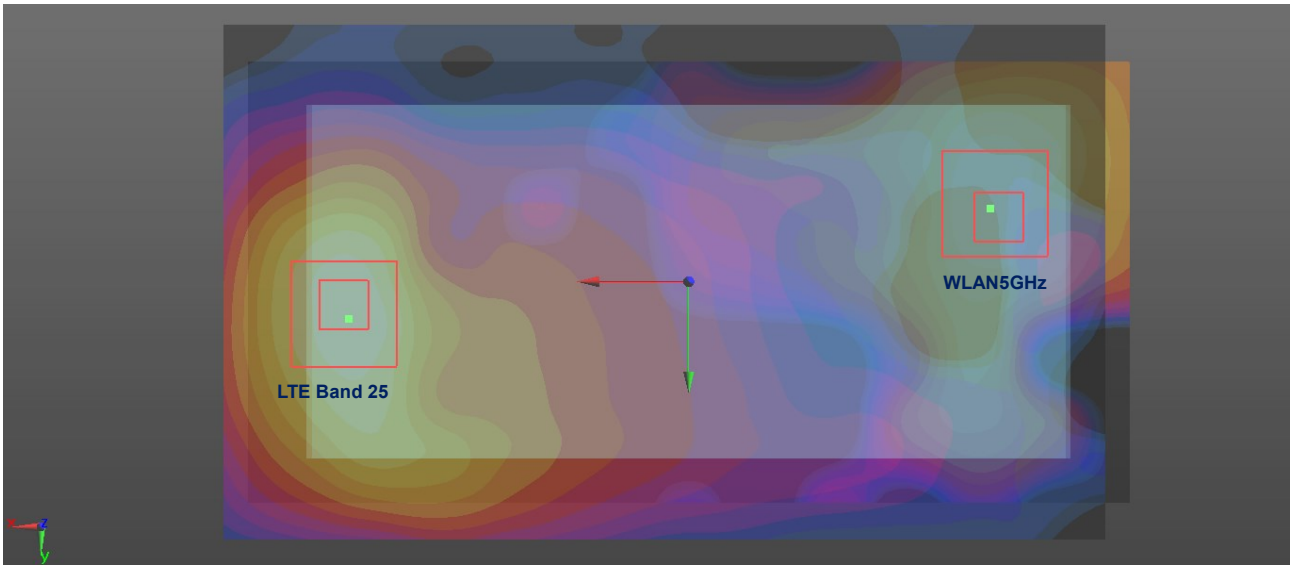
| Case #15 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 26 | Front | 1.053 | 5 | 8.7 | 0.2 | 0.55 | 151.6 | 1.68 | 0.01 | Not required |
| | WLAN5GHz | | 0.626 | 5 | -6.44 | 0.98 | 0.37 | | | | |



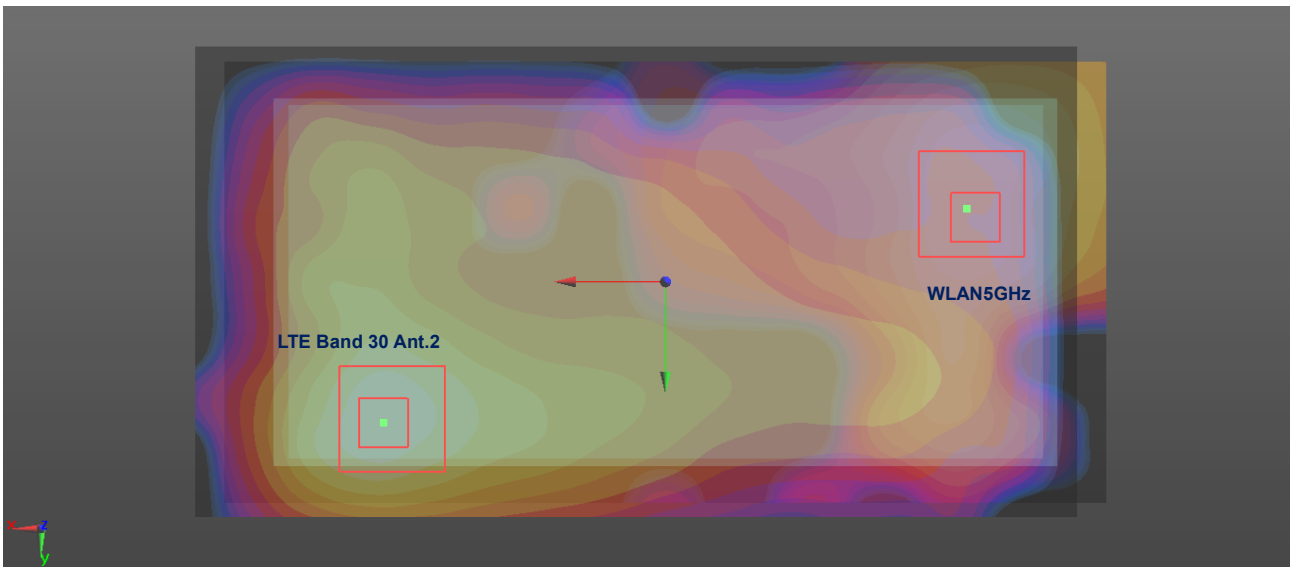

| Case #16 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 26 | Back | 1.042 | 5 | 7.35 | 1.95 | 0.55 | 140.0 | 2.22 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



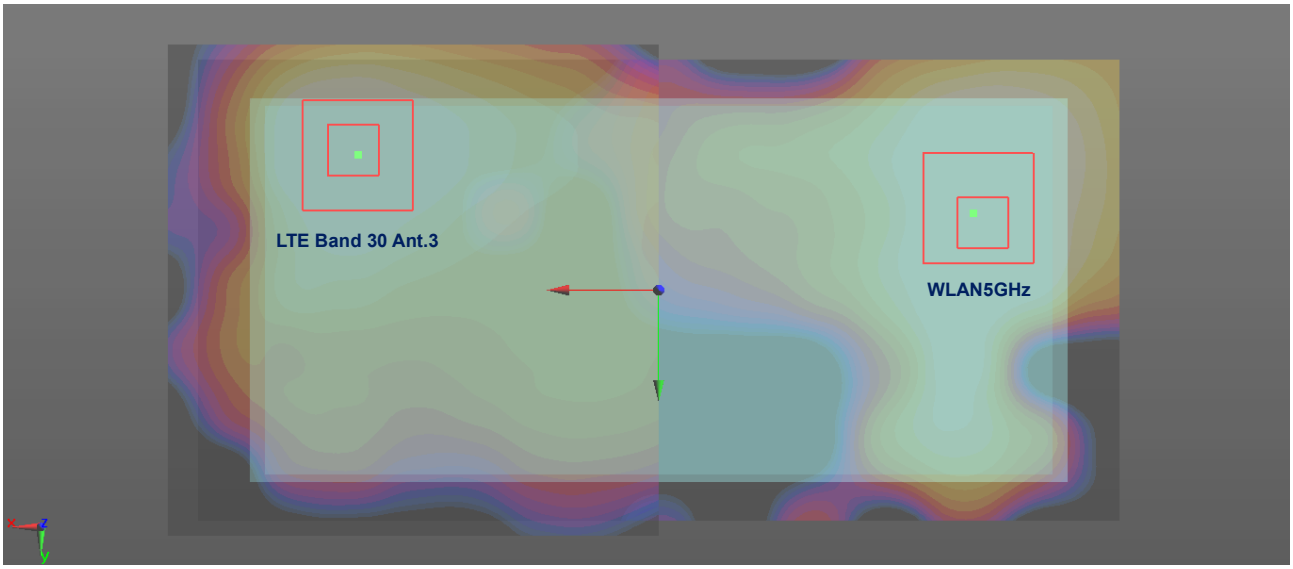
| Case #17 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 25 | Back | 0.503 | 5 | 7.4 | 0.27 | 0.41 | 137.8 | 1.68 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



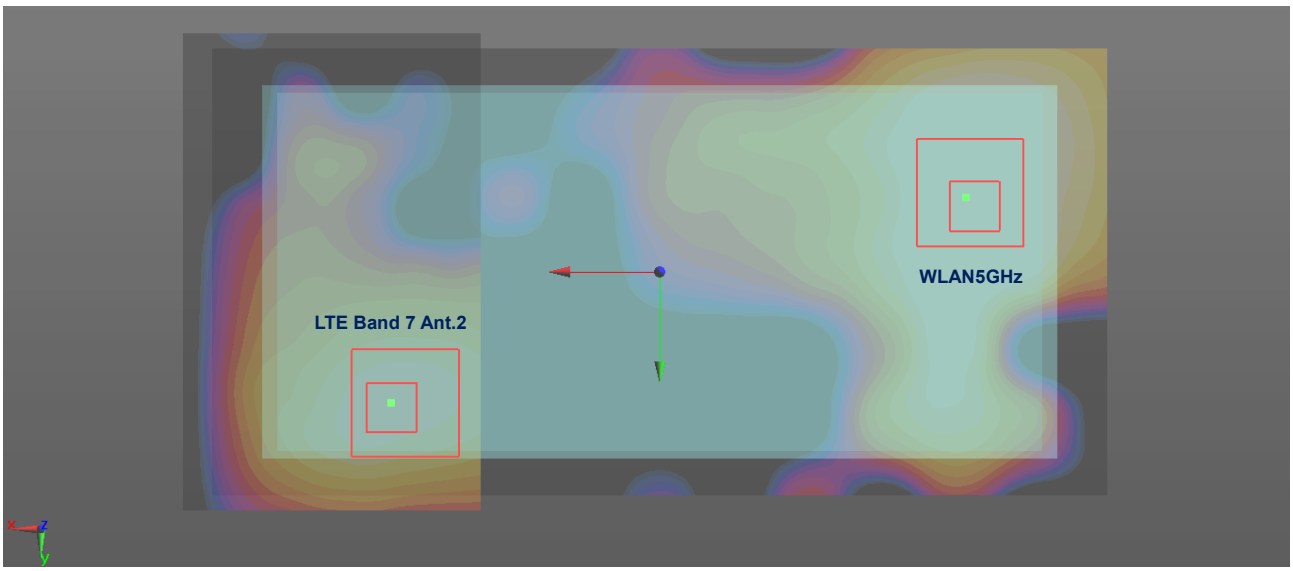

| Case #18 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.2 | Back | 0.735 | 5 | 5.96 | 2.88 | 0.36 | 129.0 | 1.91 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



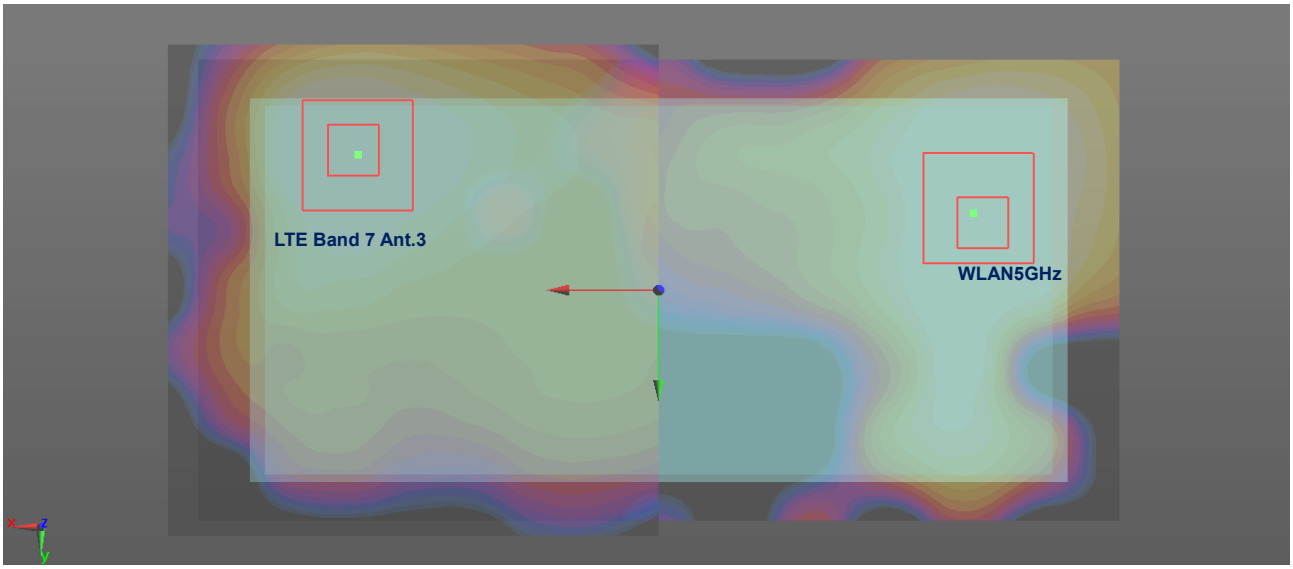
| Case #19 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.3 | Back | 0.637 | 5 | 6.28 | -2.84 | 0.38 | 127.1 | 1.81 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



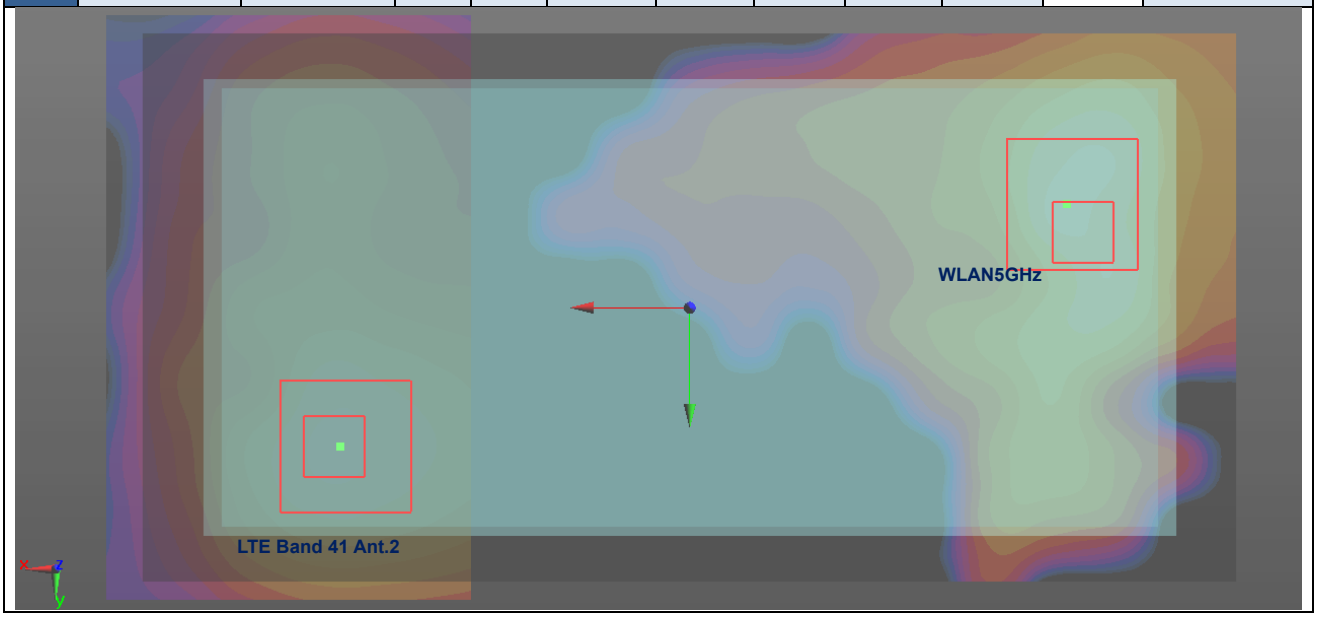

| Case #20 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.2 | Back | 0.621 | 5 | 5.6 | 2.74 | 0.36 | 125.1 | 1.80 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



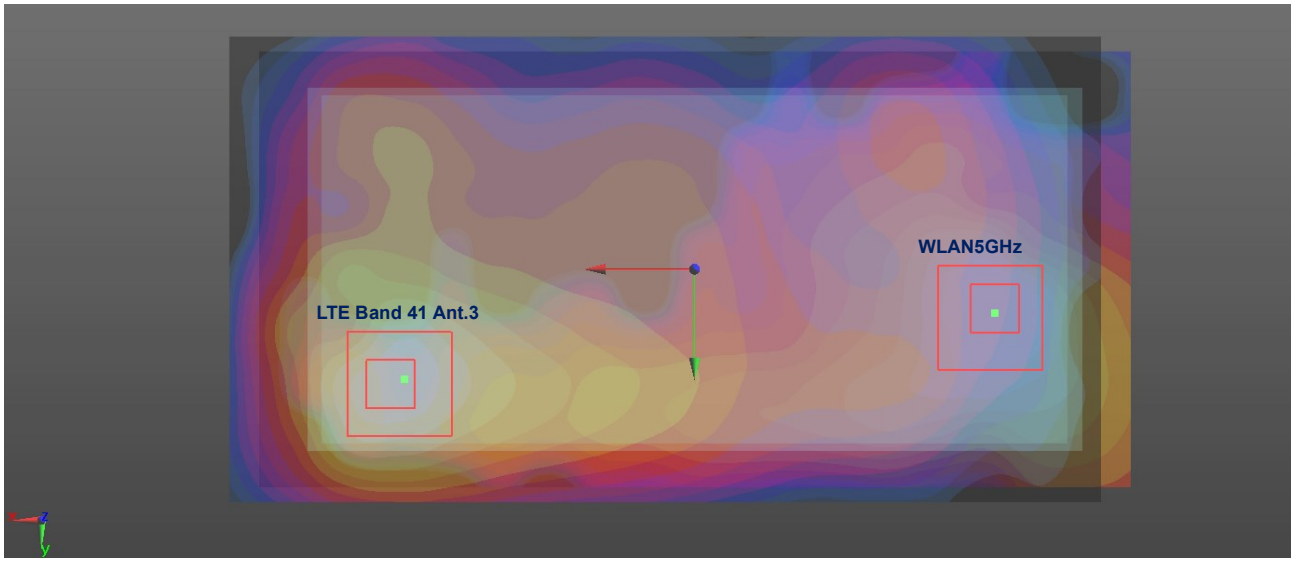
| Case #21 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.3 | Back | 0.664 | 5 | 5.6 | 2.74 | 0.36 | 125.1 | 1.84 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



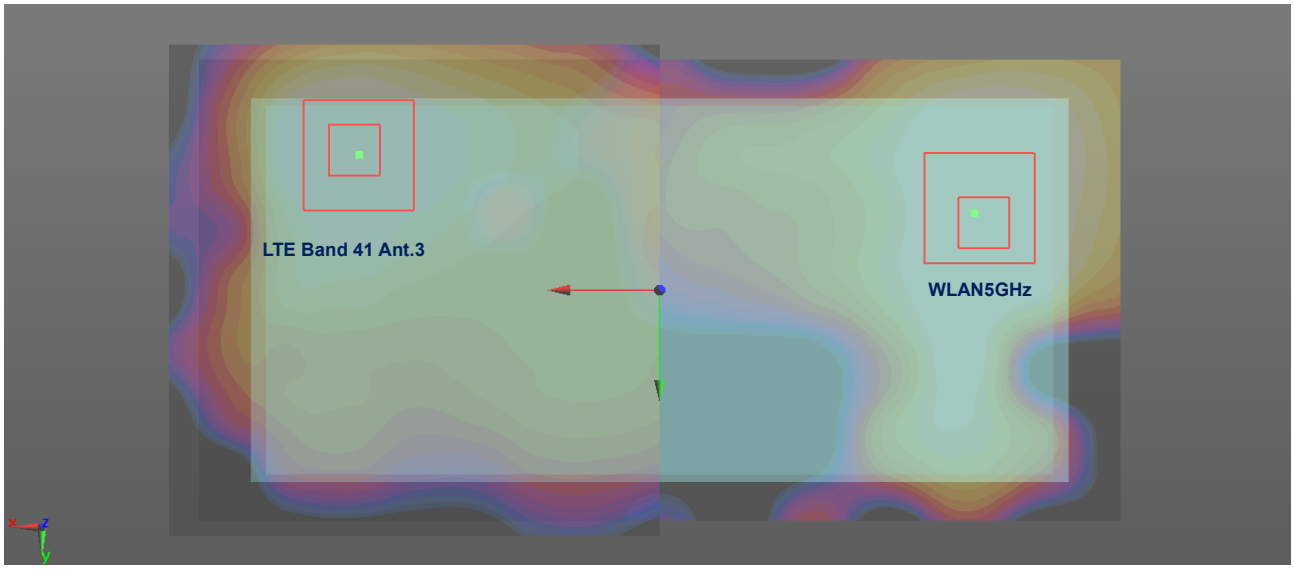

| Case #22 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.2 | Back | 0.548 | 5 | 5.28 | -2.64 | 0.39 | 116.9 | 1.72 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



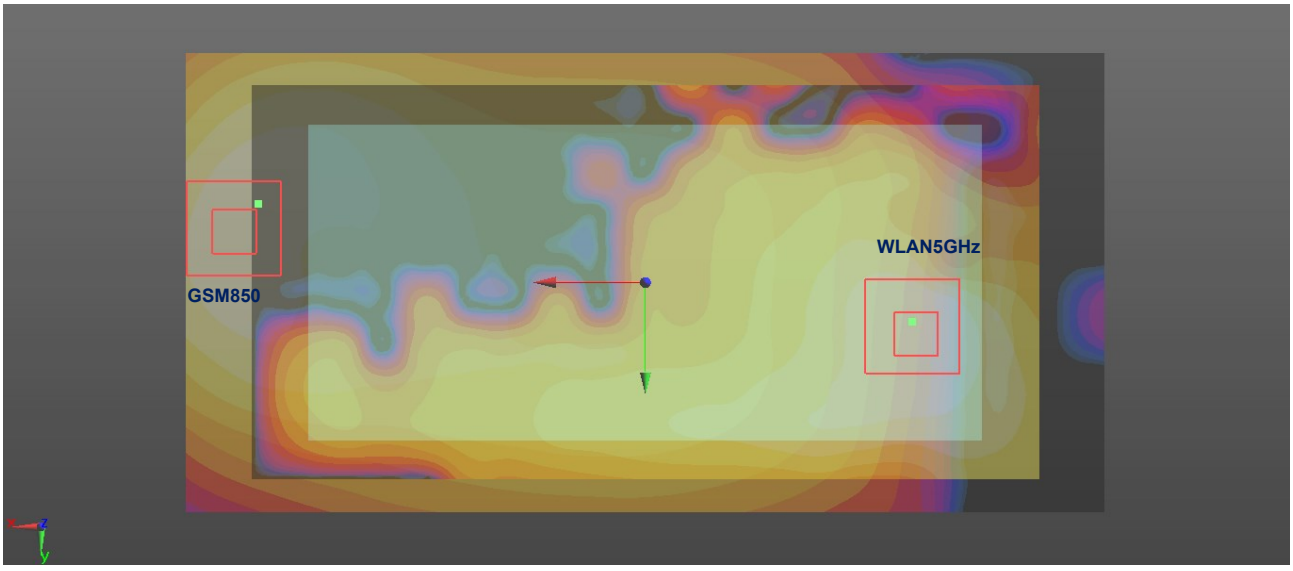
| Case #23 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.3 | Front | 1.082 | 5 | 6.06 | 2.28 | 0.4 | 125.7 | 1.71 | 0.02 | Not required |
| | WLAN5GHz | | 0.626 | 5 | -6.44 | 0.98 | 0.37 | | | | |



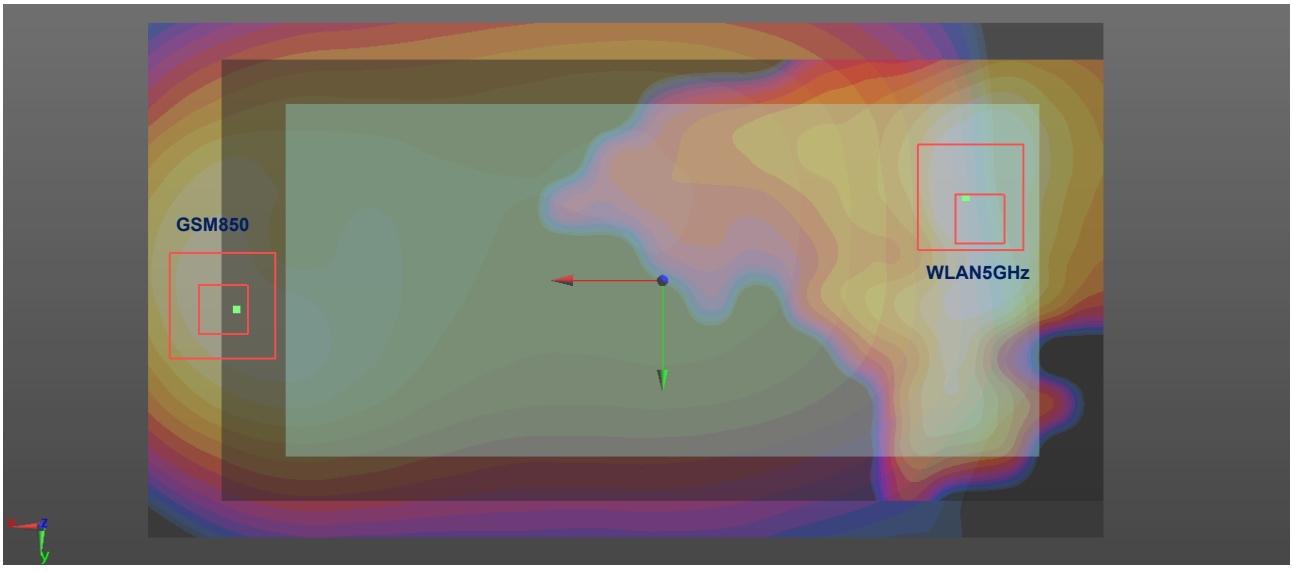

| Case #24 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.3 | Back | 0.453 | 5 | 5.28 | -2.64 | 0.39 | 116.9 | 1.63 | 0.02 | Not required |
| | WLAN5GHz | | 1.176 | 5 | -6.31 | -1.1 | 0.37 | | | | |



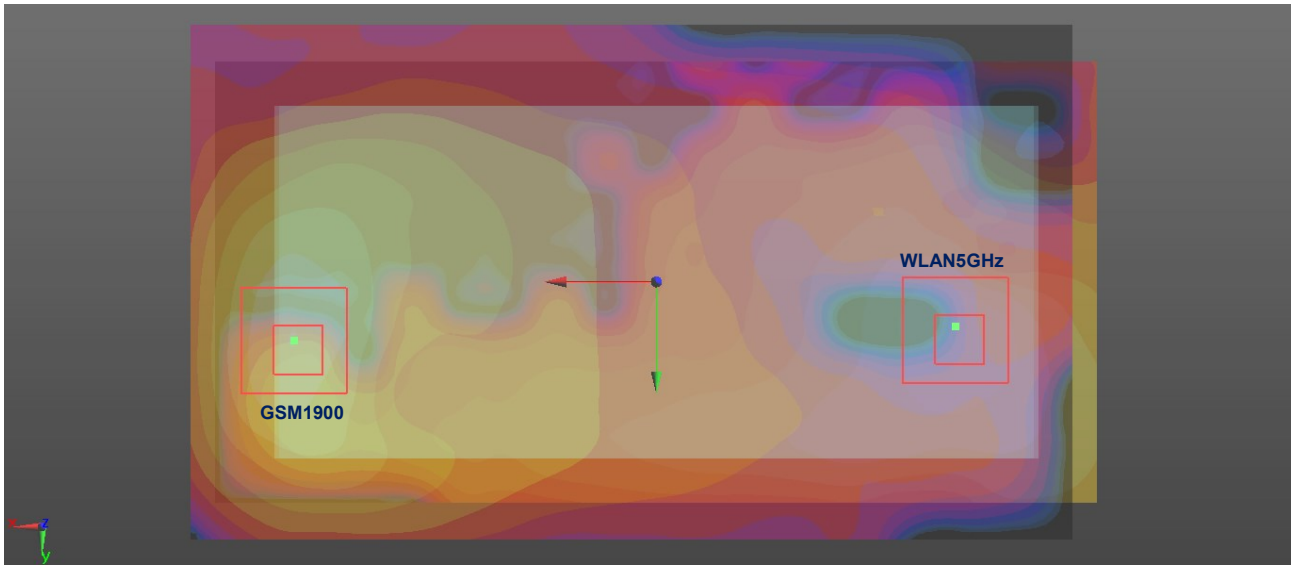
| Case #25 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GSM850 | Front | 1.142 | 5 | 9.33 | -1.16 | 0.4 | 158.5 | 2.31 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



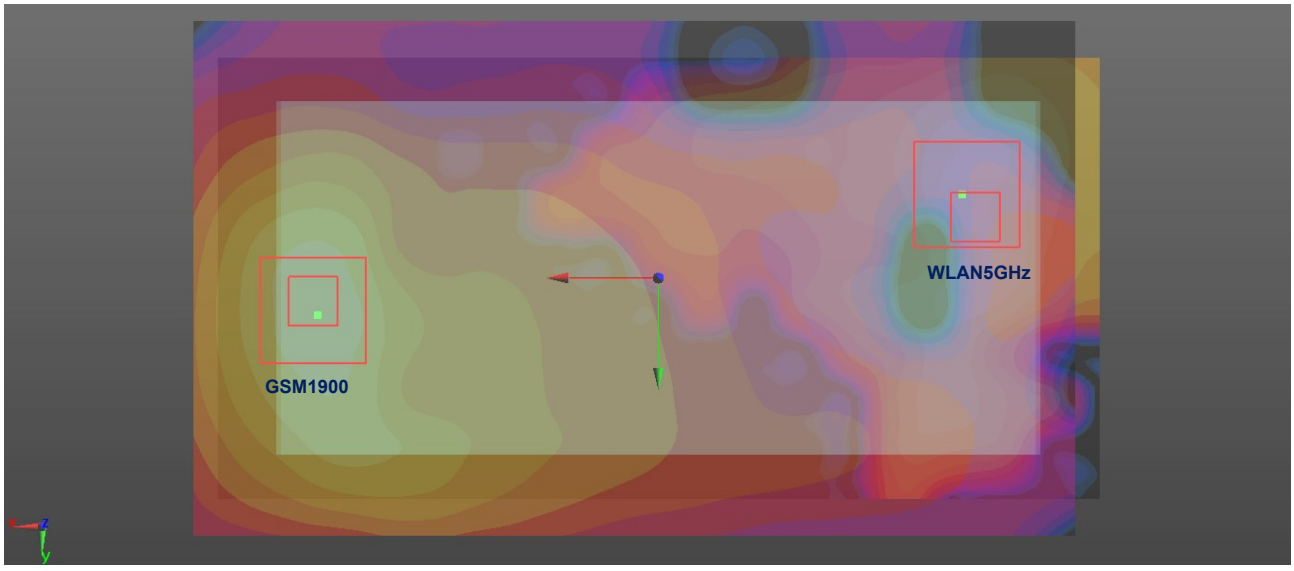

| Case #26 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GSM850 | Back | 0.929 | 5 | 9.02 | 0.6 | 0.39 | 156.2 | 2.10 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



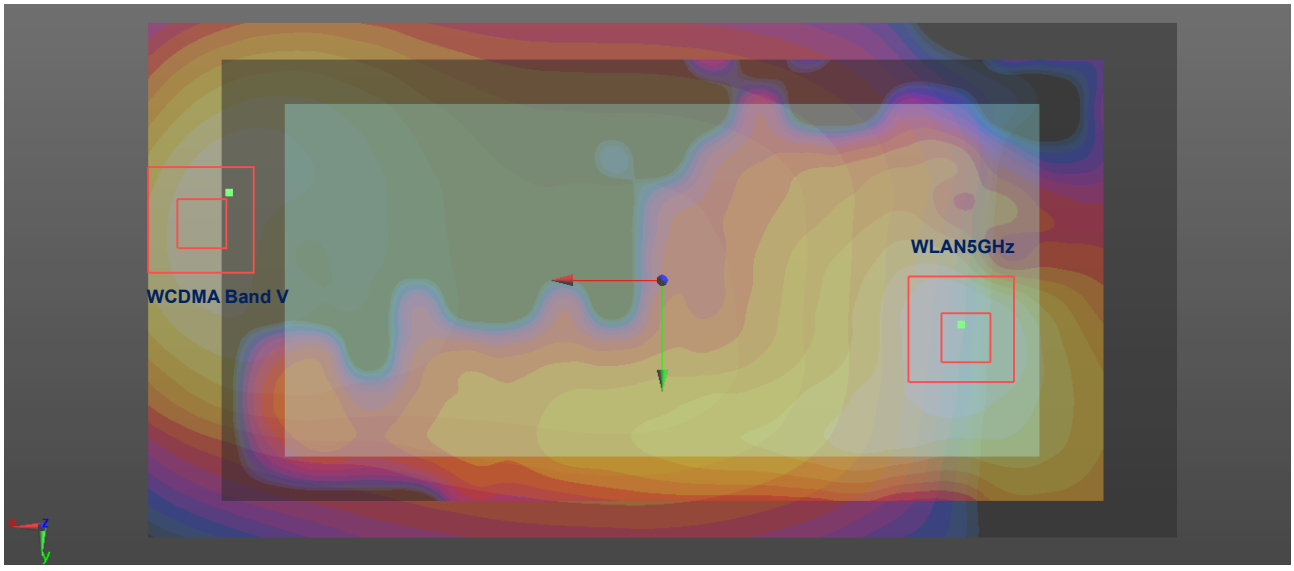
| Case #27 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GSM1900 | Front | 0.785 | 5 | 7.24 | 1.52 | 0.4 | 135.8 | 1.95 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



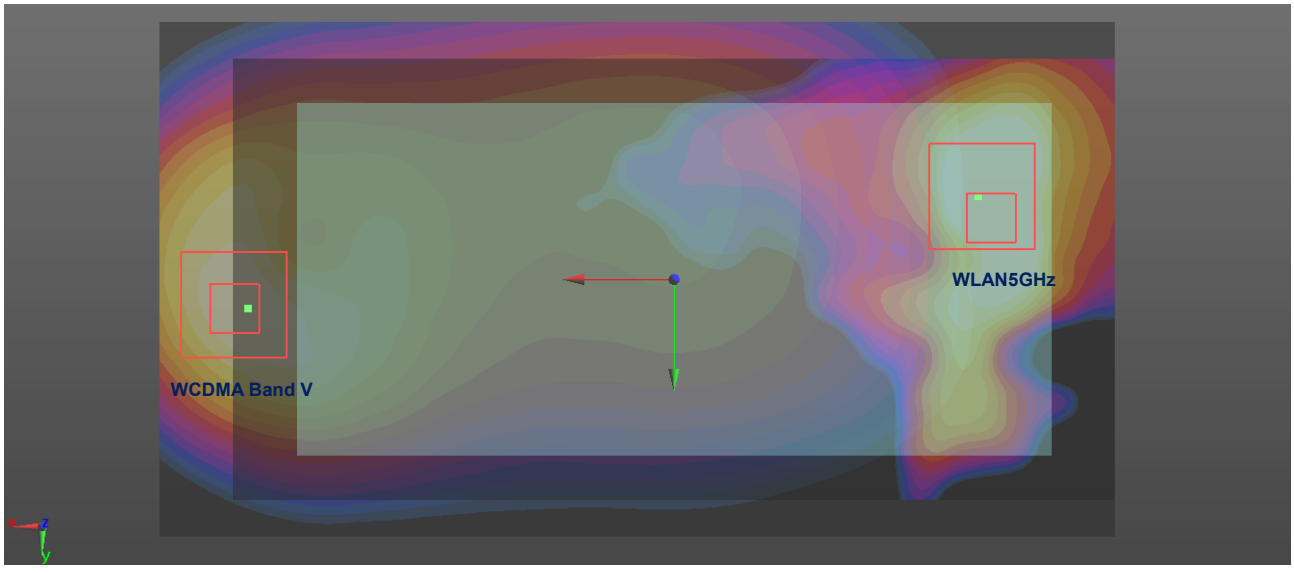

| Case #28 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GSM1900 | Back | 0.645 | 5 | 7.4 | 0.27 | 0.41 | 139.8 | 1.81 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



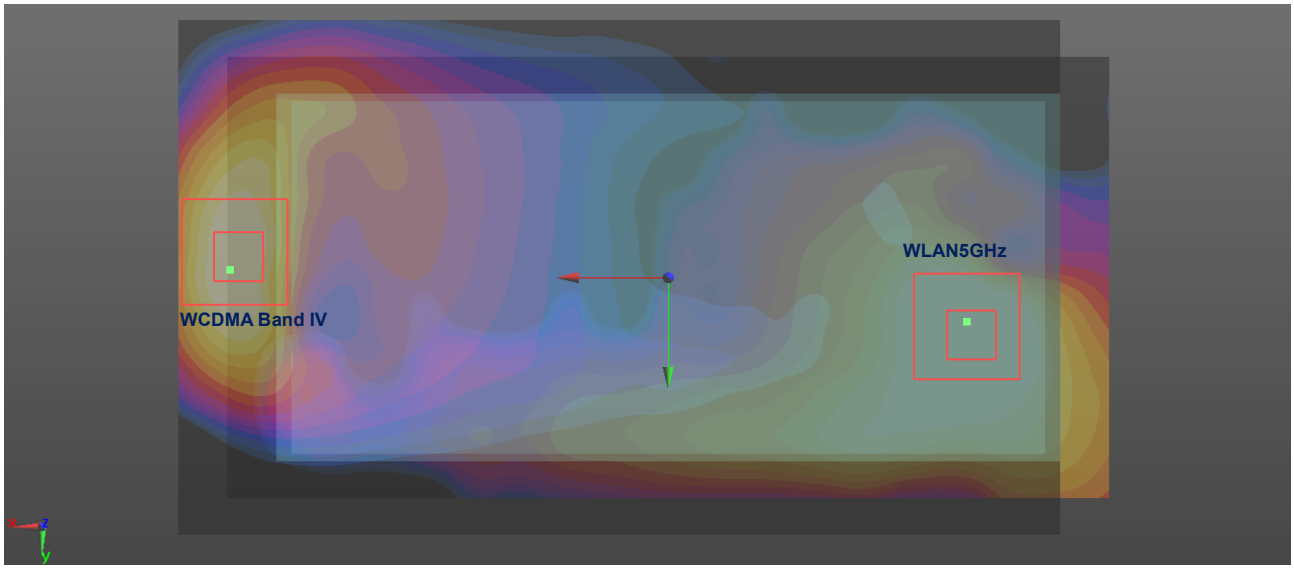
| Case #29 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band V | Front | 0.940 | 5 | 7.98 | -0.44 | 0.53 | 144.2 | 2.11 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



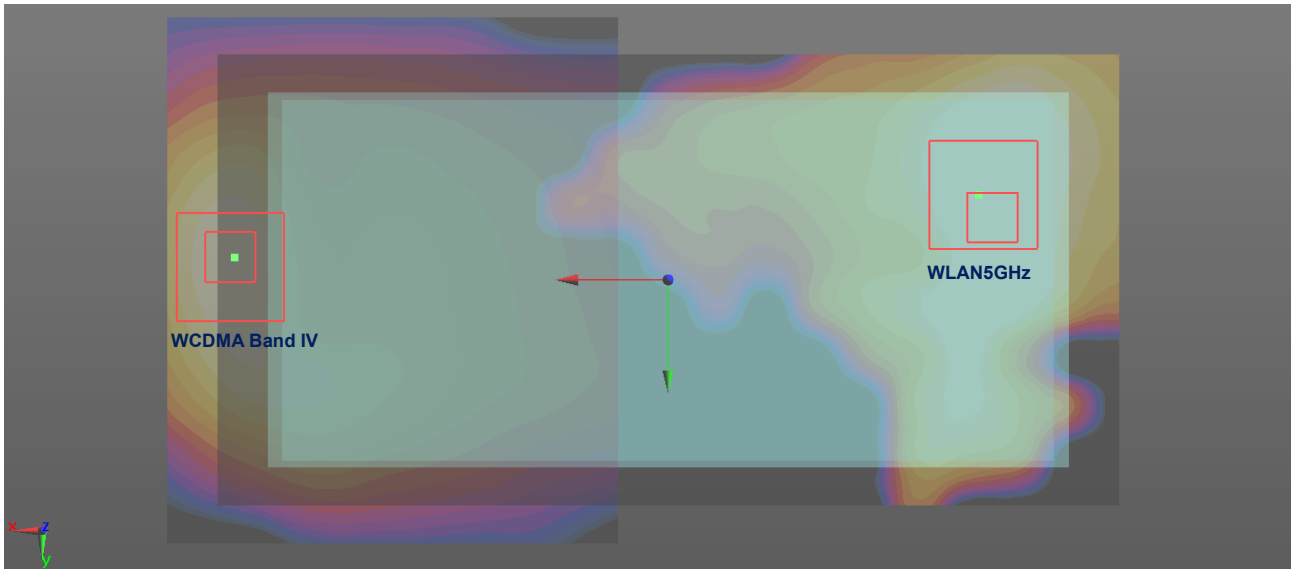

| Case #30 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band V | Back | 0.553 | 5 | 8.7 | 0.92 | 0.39 | 153.4 | 1.72 | 0.01 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



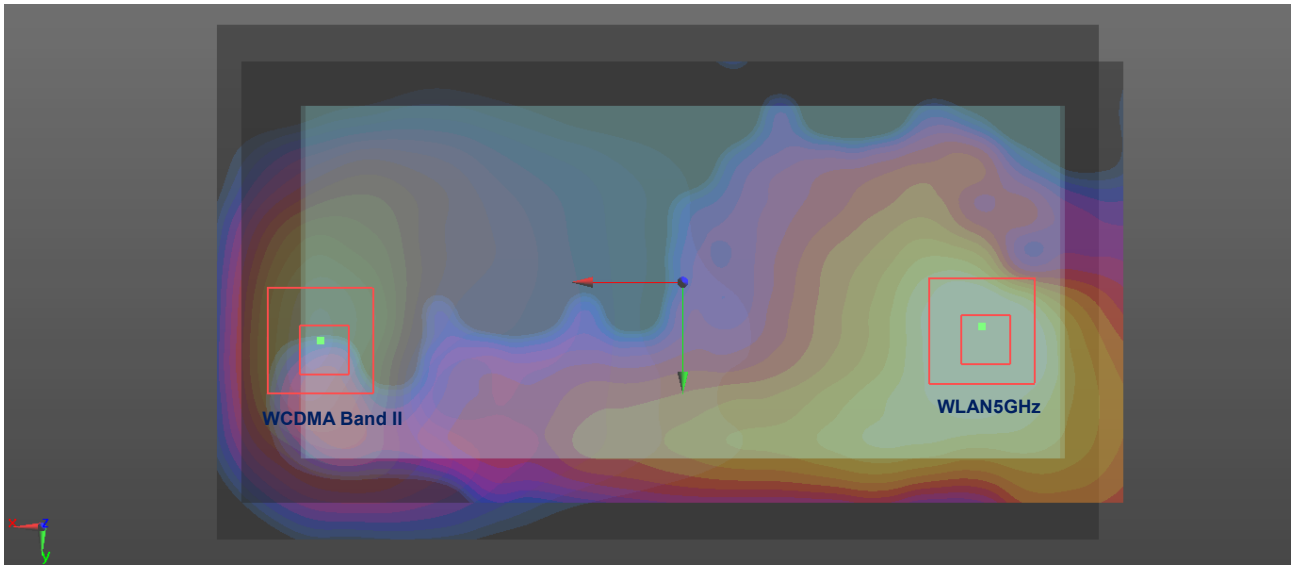
| Case #31 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band IV | Front | 0.775 | 5 | 8.79 | -0.47 | 0.44 | 152.2 | 1.94 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



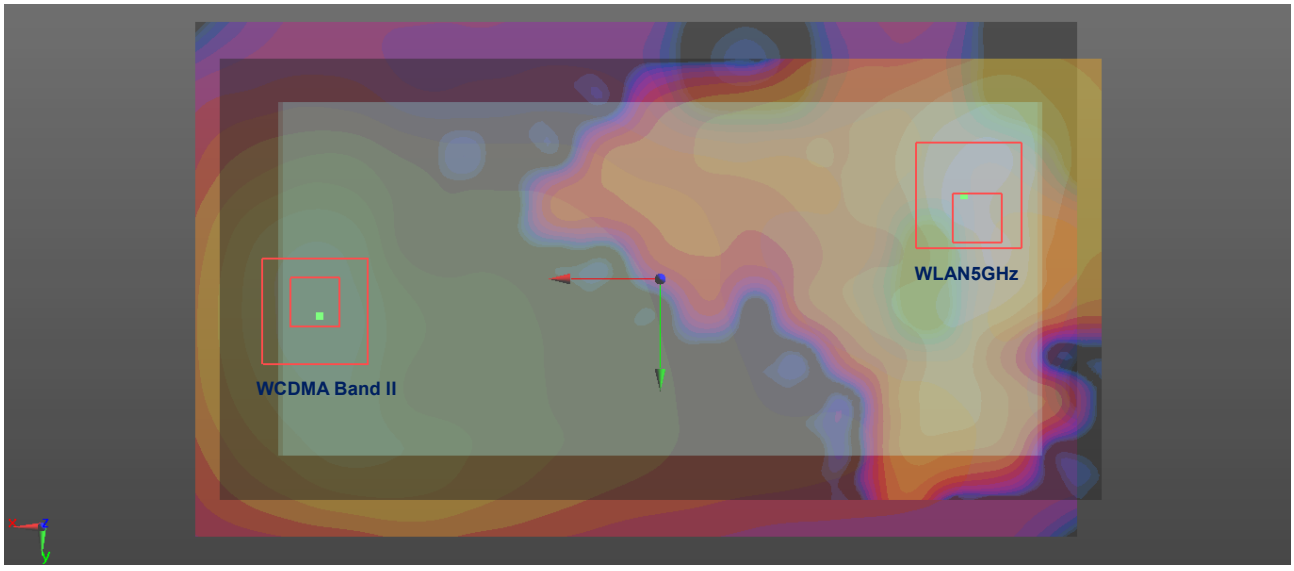

| Case #32 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band IV | Back | 0.428 | 5 | 8.65 | -0.45 | 0.44 | 151.79 | 1.60 | 0.01 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



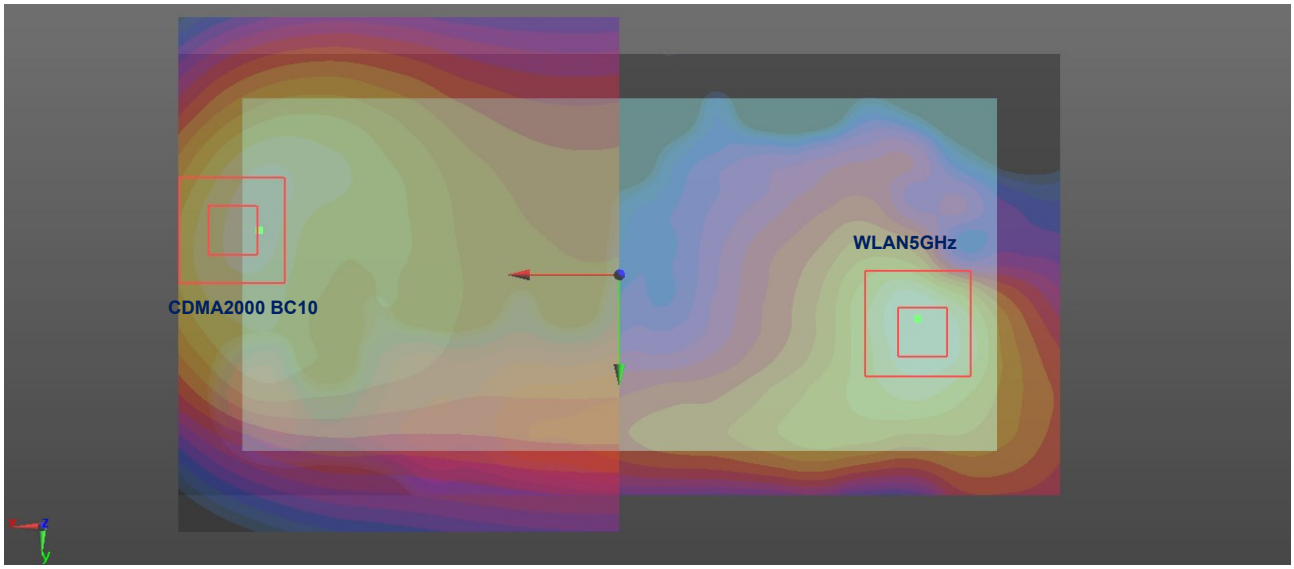
| Case #33 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band II | Front | 0.675 | 5 | 7.4 | -0.27 | 0.49 | 138.2 | 1.84 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



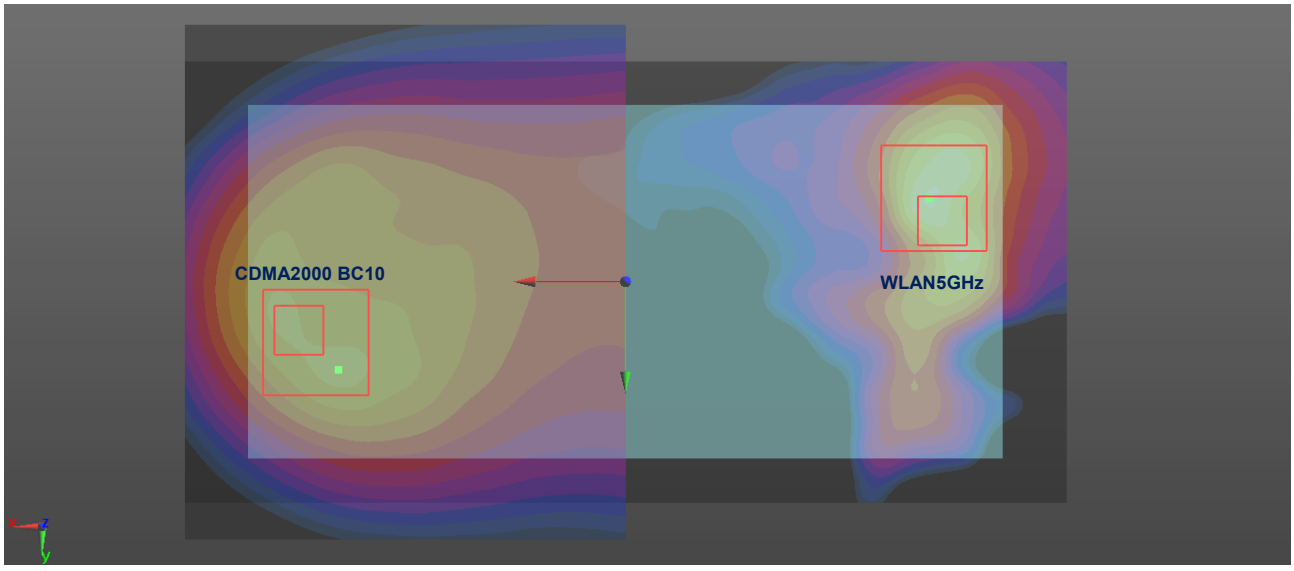

| Case #34 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band II | Back | 0.549 | 5 | 7.4 | 0.27 | 0.41 | 139.8 | 1.72 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



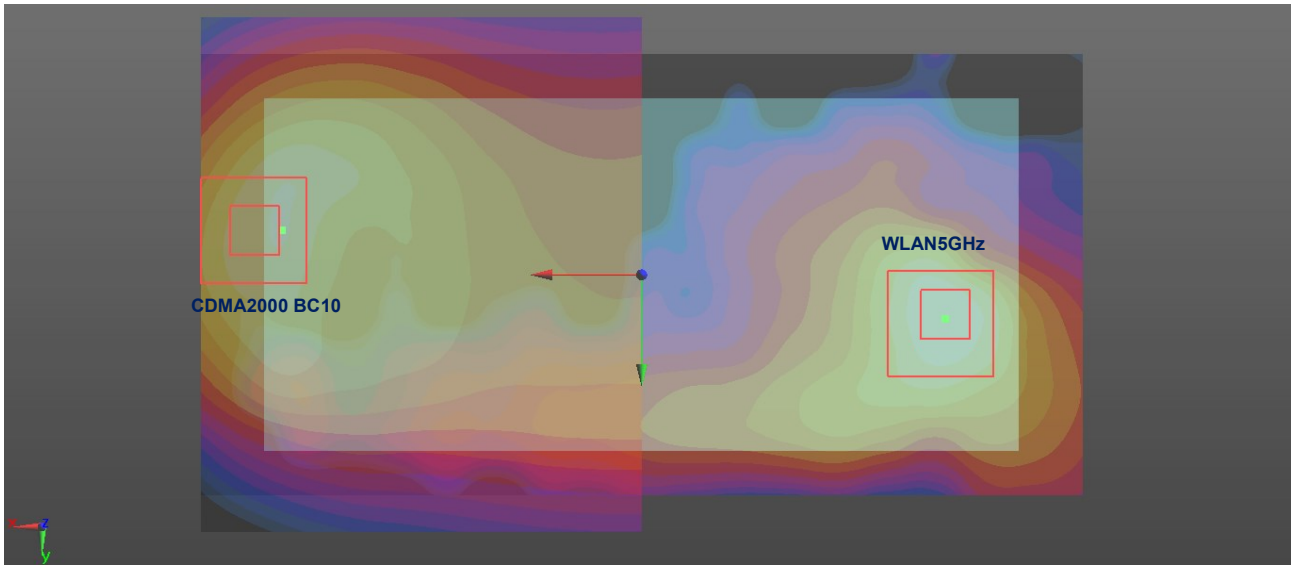
| Case #35 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC10 | Front | 1.264 | 5 | 7.83 | -0.9 | 0.39 | 143.3 | 2.43 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



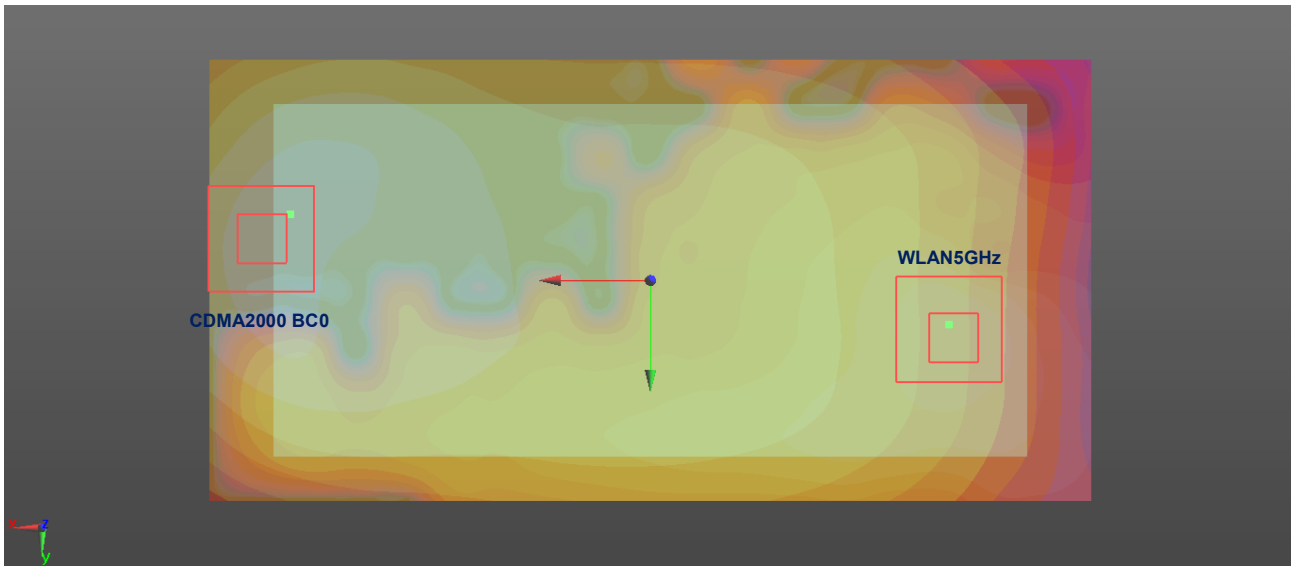

| Case #36 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC10 | Back | 1.115 | 5 | 6.65 | 1 | 0.39 | 133.2 | 2.28 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



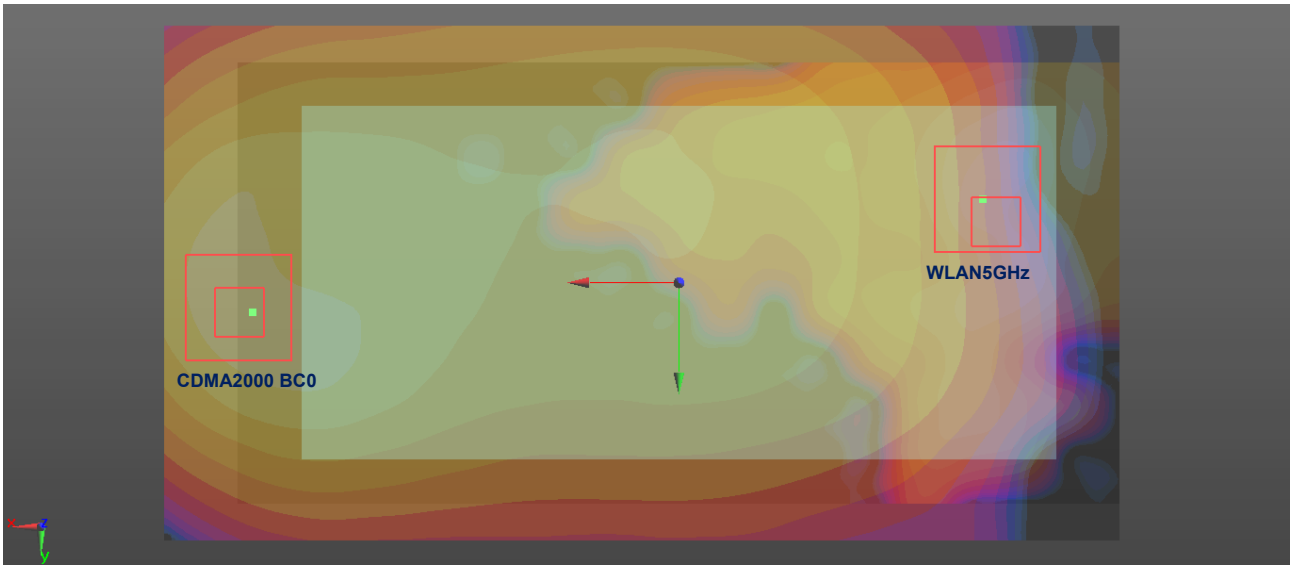
| Case #37 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC10 | Front with Headset | 0.952 | 5 | 7.83 | -0.87 | 0.39 | 143.9 | 1.99 | 0.02 | Not required |
| | WLAN5GHz | | 1.034 | 5 | -6.44 | 0.98 | 0.37 | | | | |



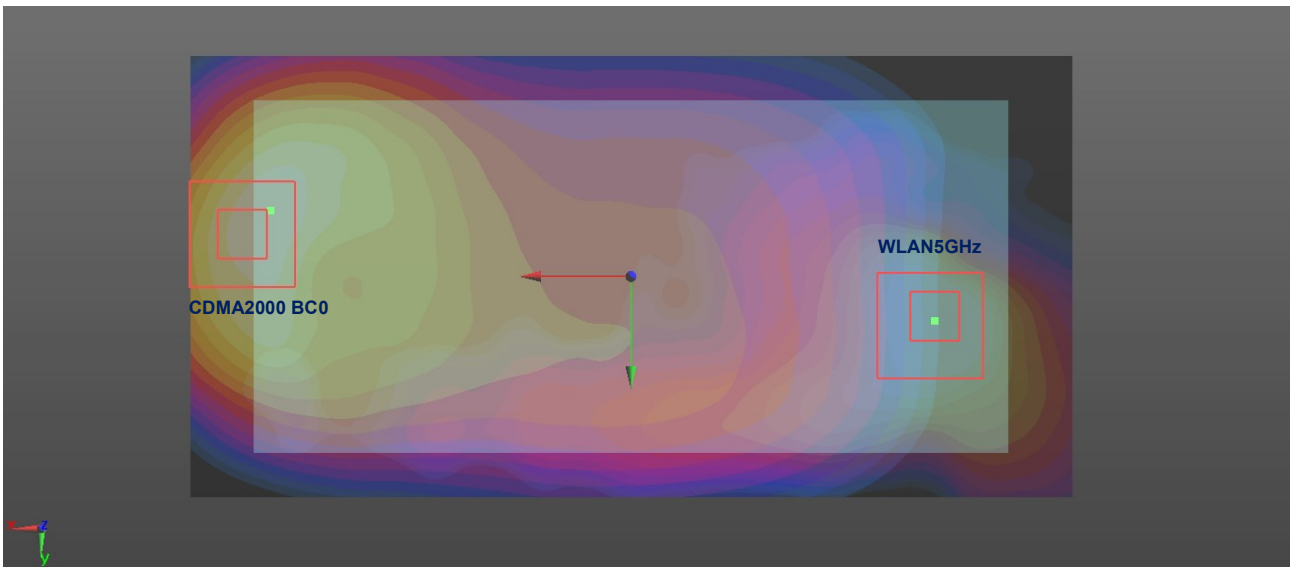

| Case #38 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC0 | Front | 1.405 | 5 | 7.83 | -0.87 | 0.39 | 143.2 | 2.57 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



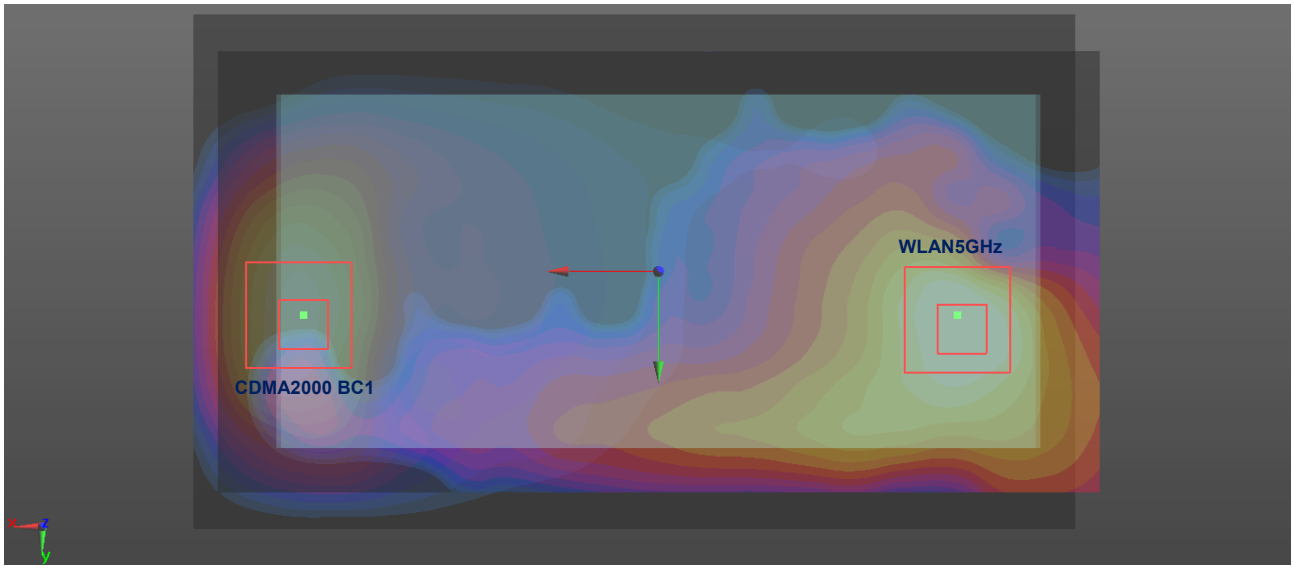
| Case #39 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC0 | Back | 1.014 | 5 | 9.02 | 0.6 | 0.39 | 156.2 | 2.18 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



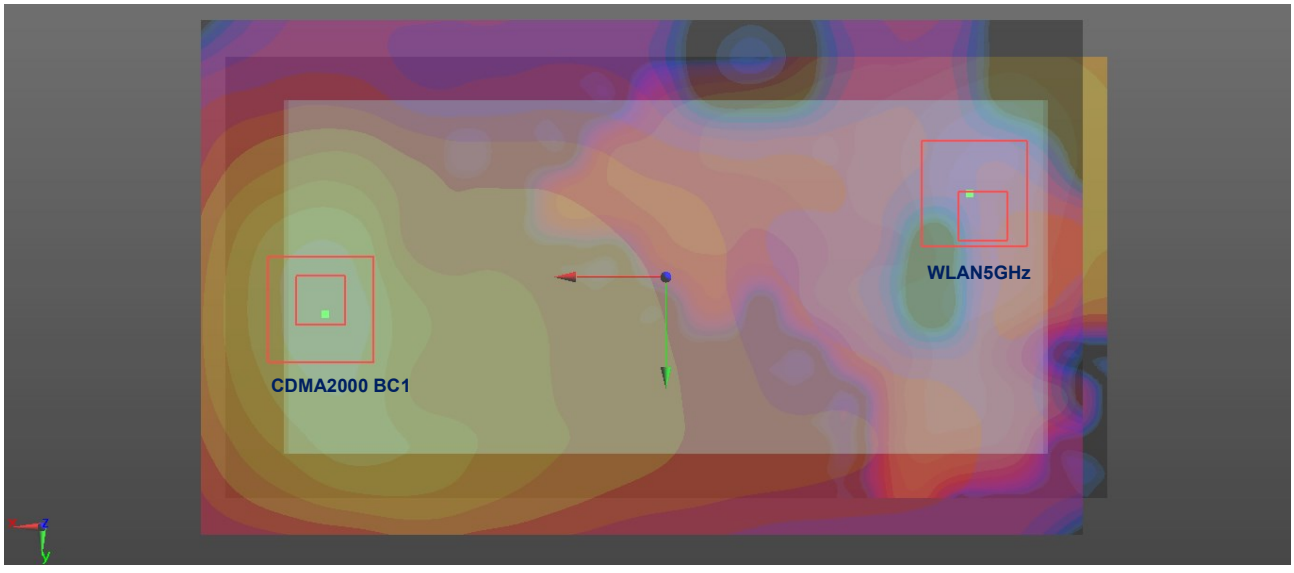

| Case #40 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC0 | Front with Headset | 0.768 | 5 | 7.83 | -0.87 | 0.39 | 143.9 | 1.80 | 0.02 | Not required |
| | WLAN5GHz | | 1.034 | 5 | -6.44 | 0.98 | 0.37 | | | | |



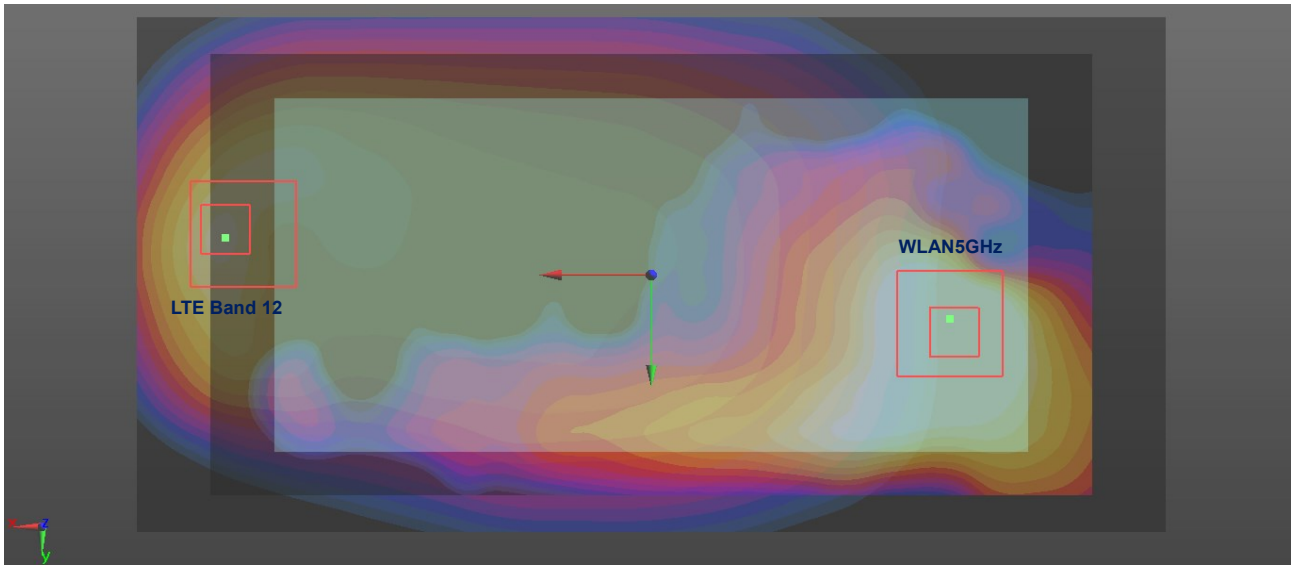
| Case #41 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC1 | Front | 0.732 | 5 | 7.54 | -0.31 | 0.49 | 139.6 | 1.90 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



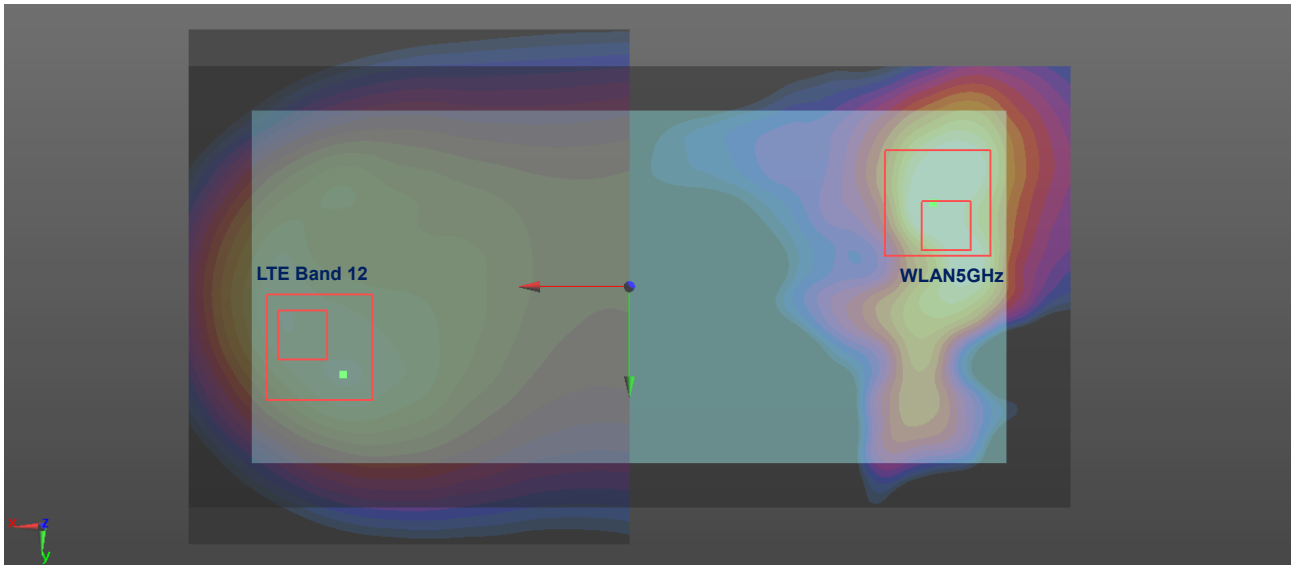

| Case #42 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC1 | Back | 0.558 | 5 | 7.4 | 0.27 | 0.41 | 139.8 | 1.73 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



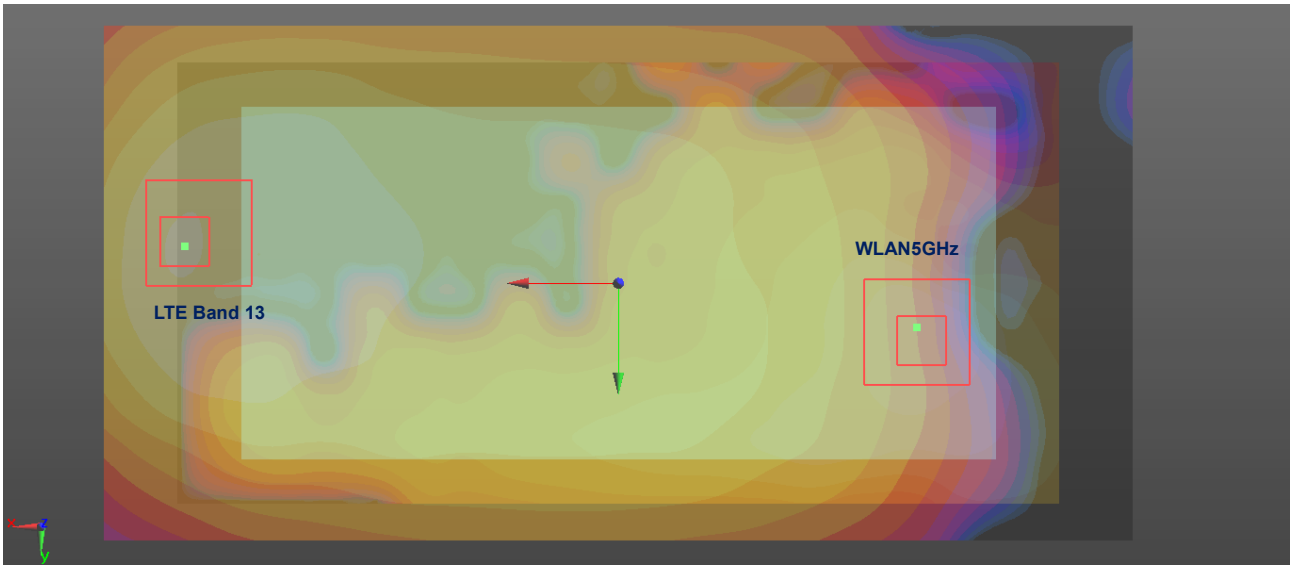
| Case #43 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 12 | Front | 0.661 | 5 | 8.7 | -0.91 | 0.39 | 151.9 | 1.83 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



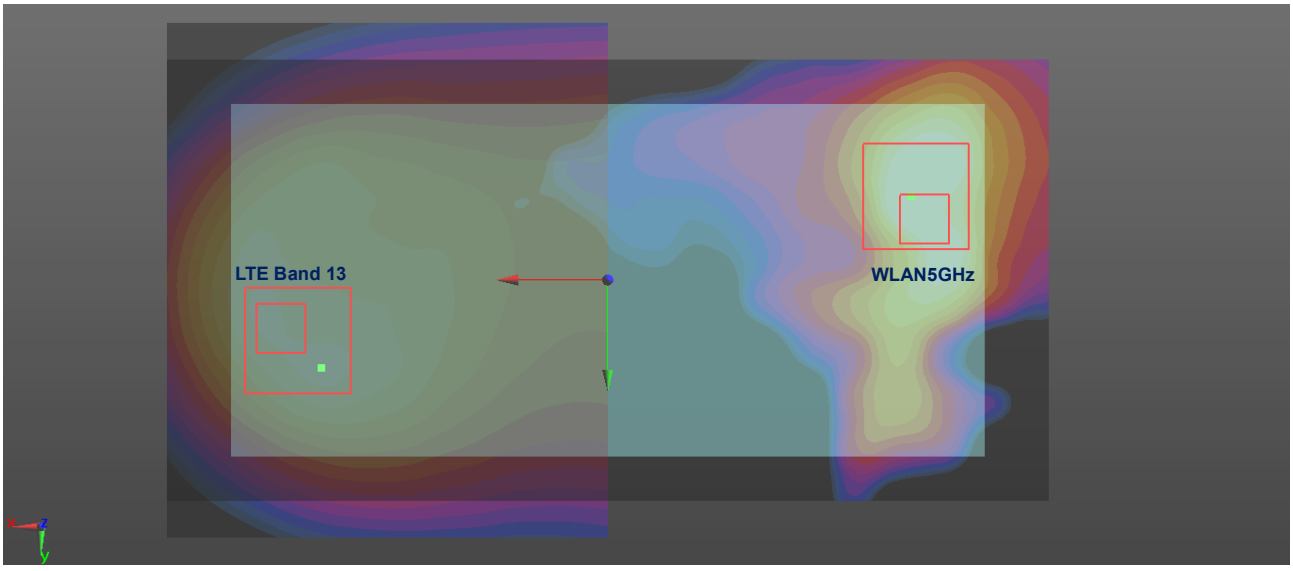

| Case #44 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 12 | Back | 0.576 | 5 | 8.7 | 0.92 | 0.39 | 153.4 | 1.74 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



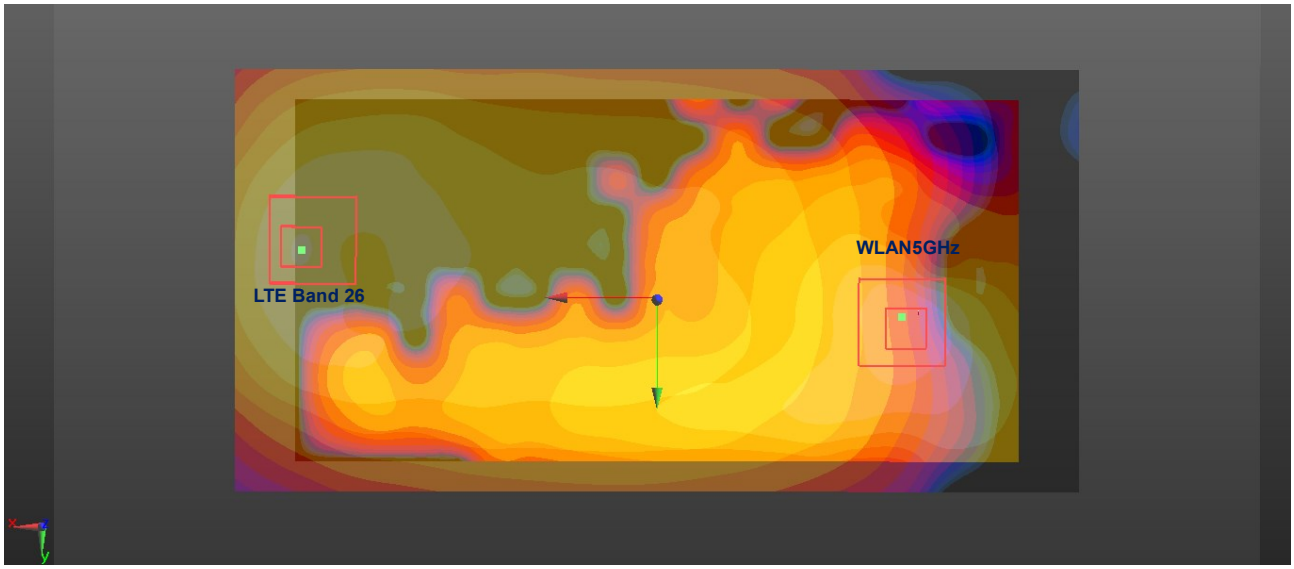
| Case #45 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 13 | Front | 1.025 | 5 | 8.69 | -1.07 | 0.39 | 152.0 | 2.19 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



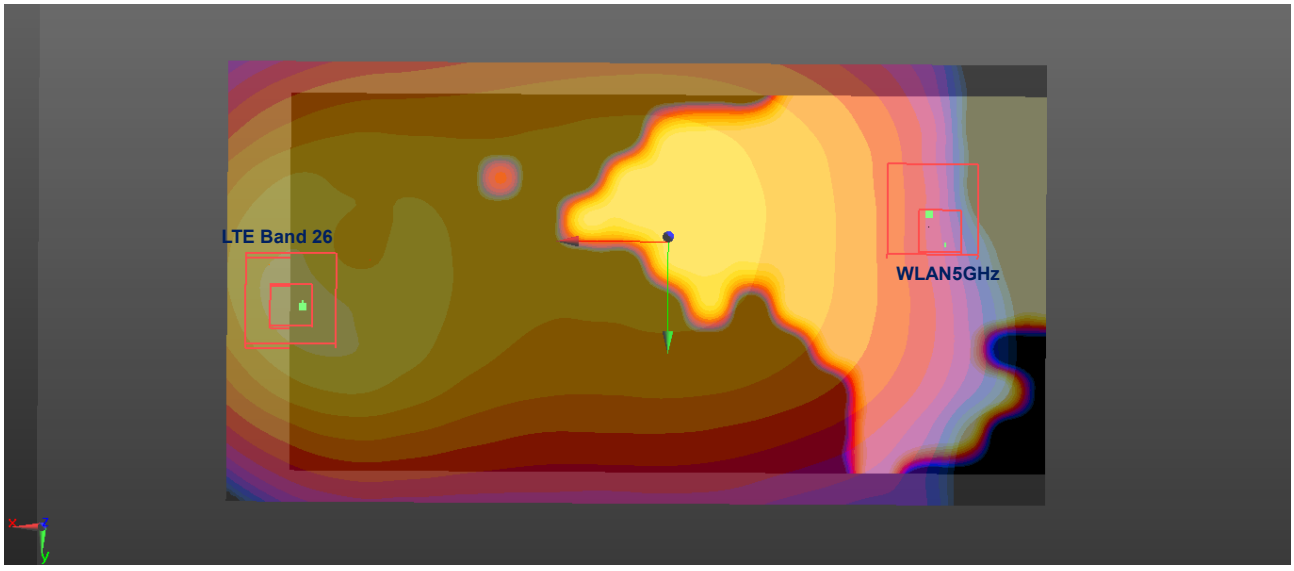

| Case #46 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 13 | Back | 0.954 | 5 | 8.7 | 0.92 | 0.39 | 153.4 | 2.12 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



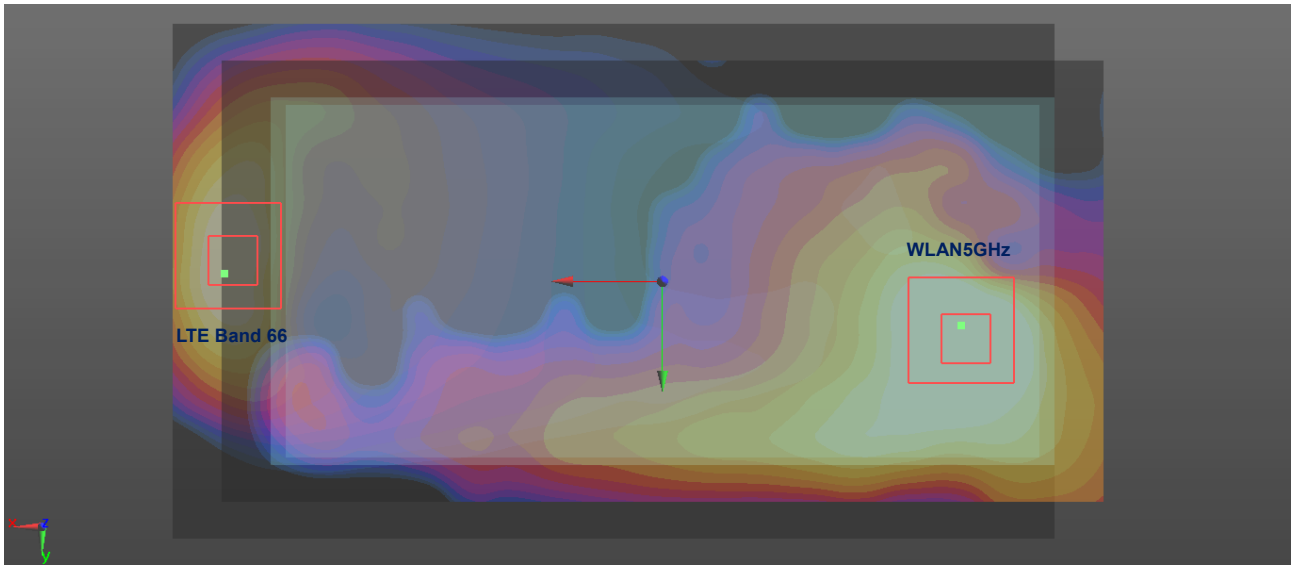
| Case #47 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 26 | Front | 1.053 | 5 | 8.7 | 0.2 | 0.55 | 150.8 | 2.22 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



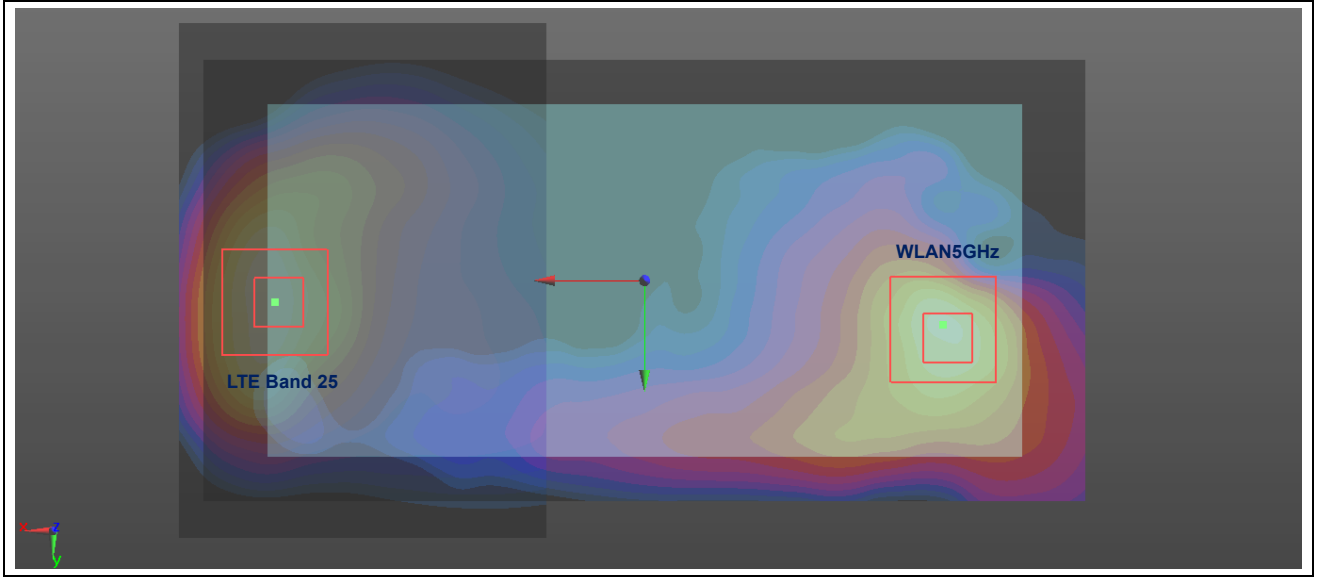

| Case #48 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 26 | Back | 1.042 | 5 | 7.35 | 1.95 | 0.55 | 141.8 | 2.21 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



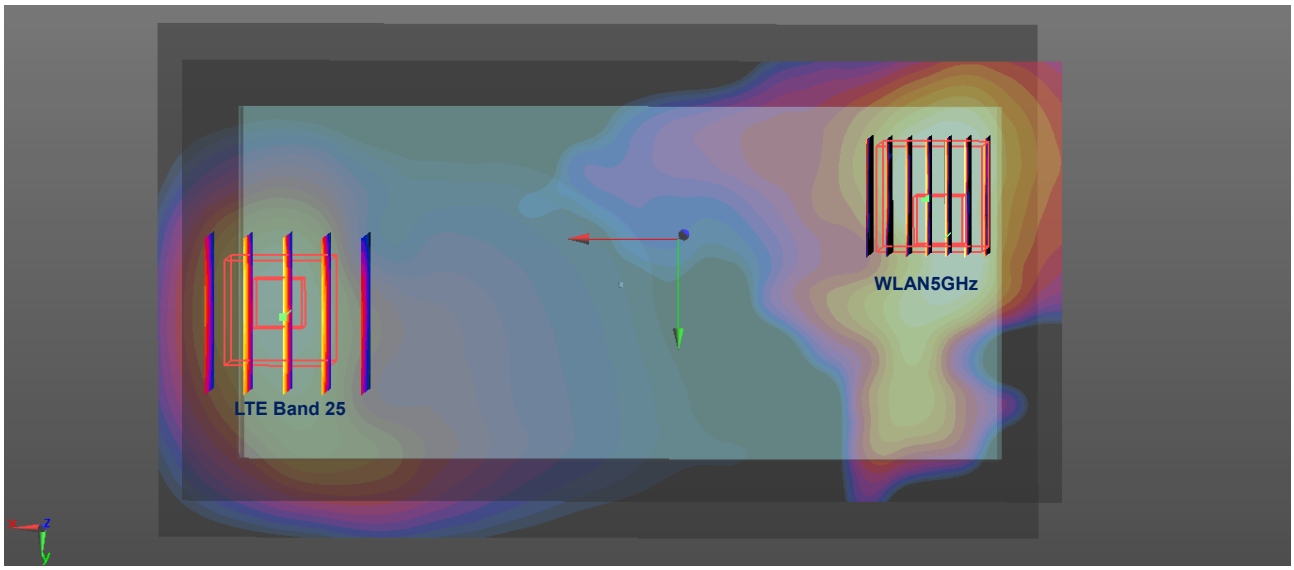
| Case #49 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 66 | Front | 0.603 | 5 | 7.4 | 0.27 | 0.41 | 137.7 | 1.77 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



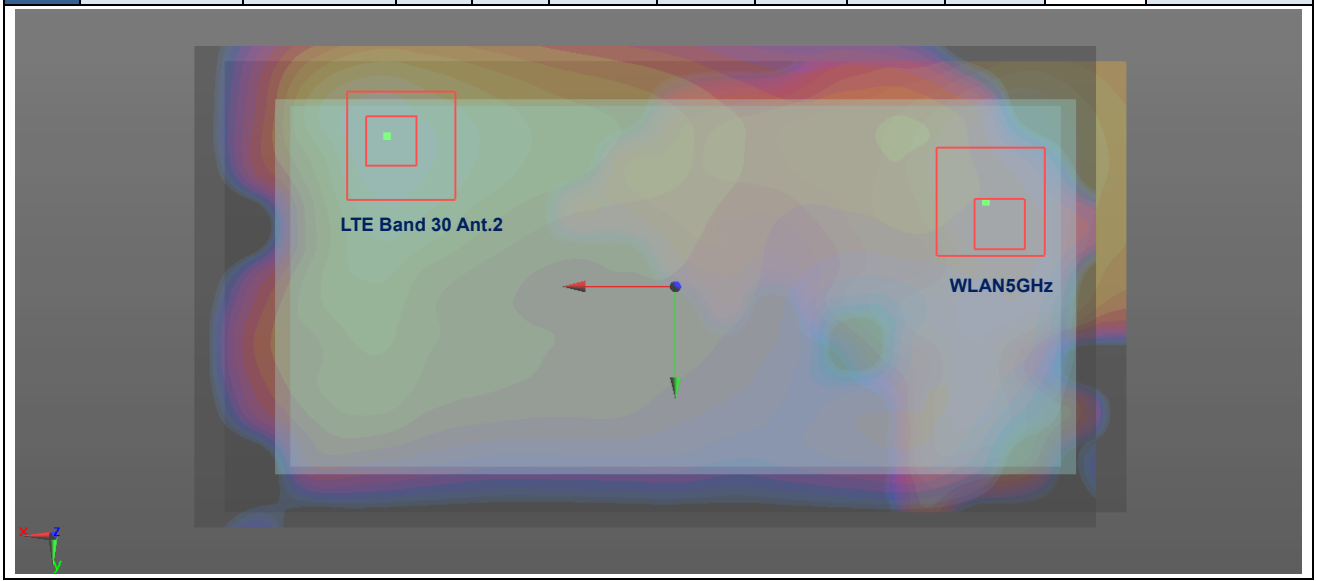

| Case #50 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 25 | Front | 0.702 | 5 | 8.79 | -0.47 | 0.44 | 152.2 | 1.87 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



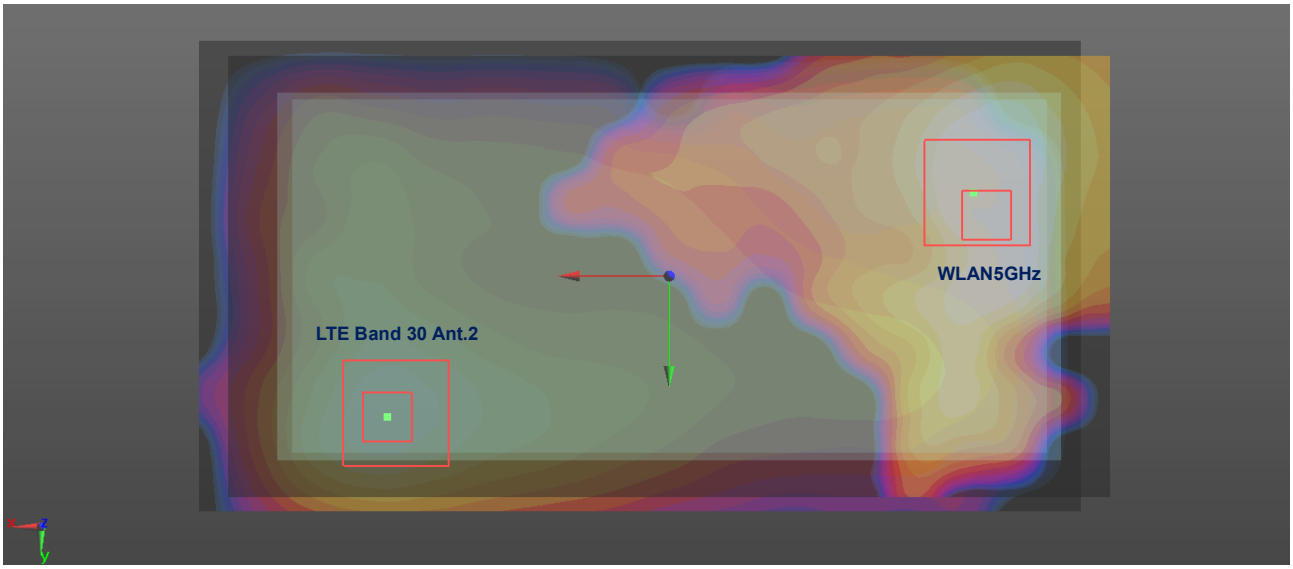
| Case #51 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 25 | Back | 0.503 | 5 | 7.4 | 0.27 | 0.41 | 139.8 | 1.67 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



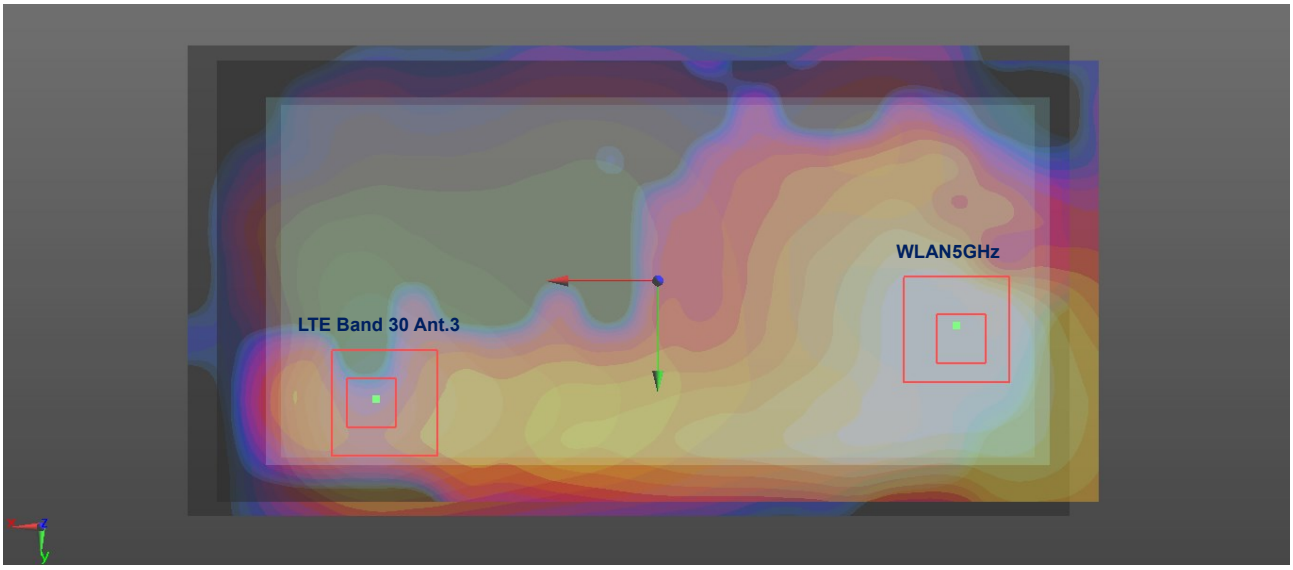

| Case #52 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.2 | Front | 0.704 | 5 | 5.96 | -2.9 | 0.36 | 129.72 | 1.87 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



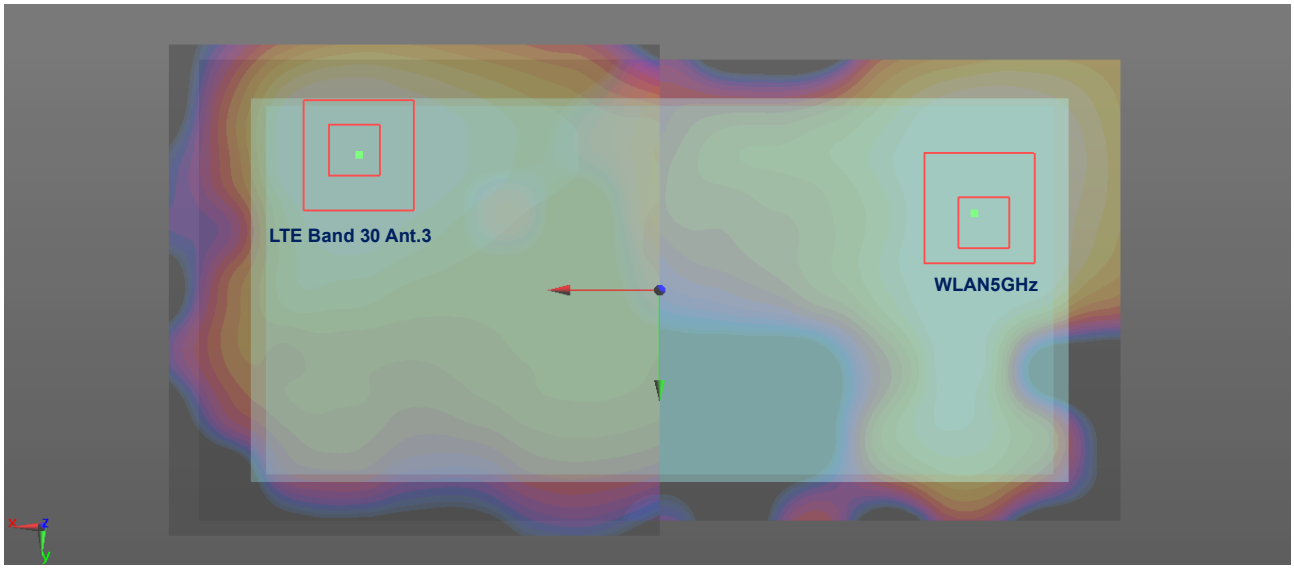
| Case #53 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.2 | Back | 0.735 | 5 | 5.96 | 2.88 | 0.36 | 130.6 | 1.90 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



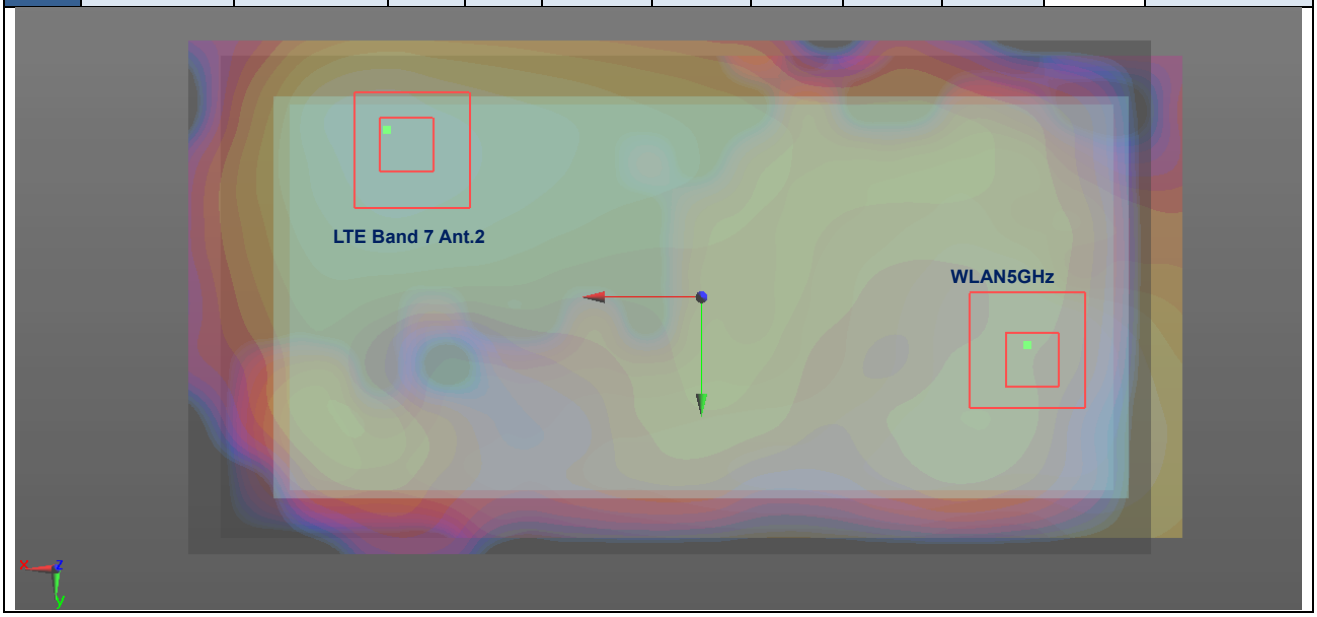

| Case #54 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.3 | Front | 0.781 | 5 | 6.06 | 2.6 | 0.37 | 124.8 | 1.95 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



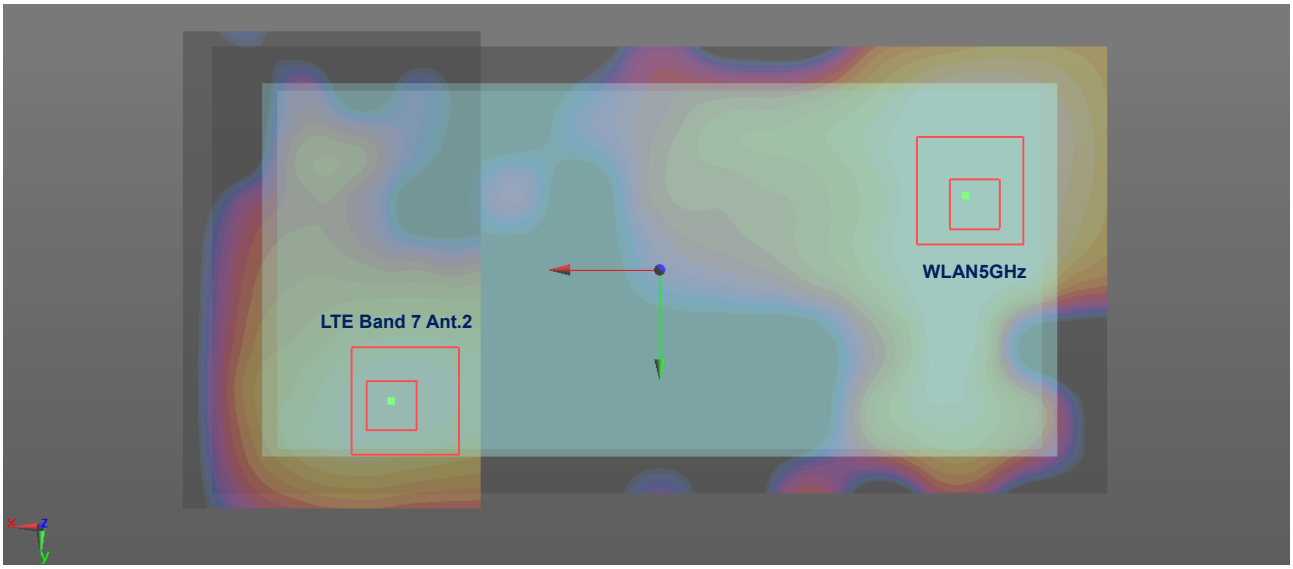
| Case #55 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 30 Ant.3 | Back | 0.637 | 5 | 6.28 | -2.84 | 0.38 | 129.3 | 1.80 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



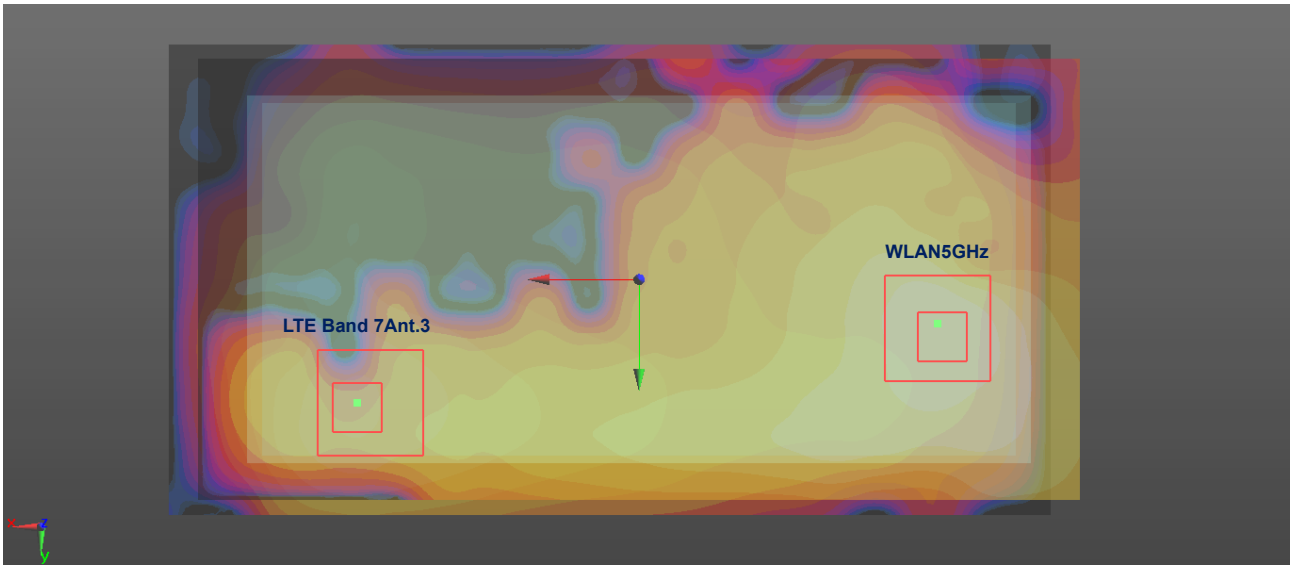

| Case #56 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.2 | Front | 0.833 | 5 | 5.78 | -2.92 | 0.36 | 128.08 | 2.00 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



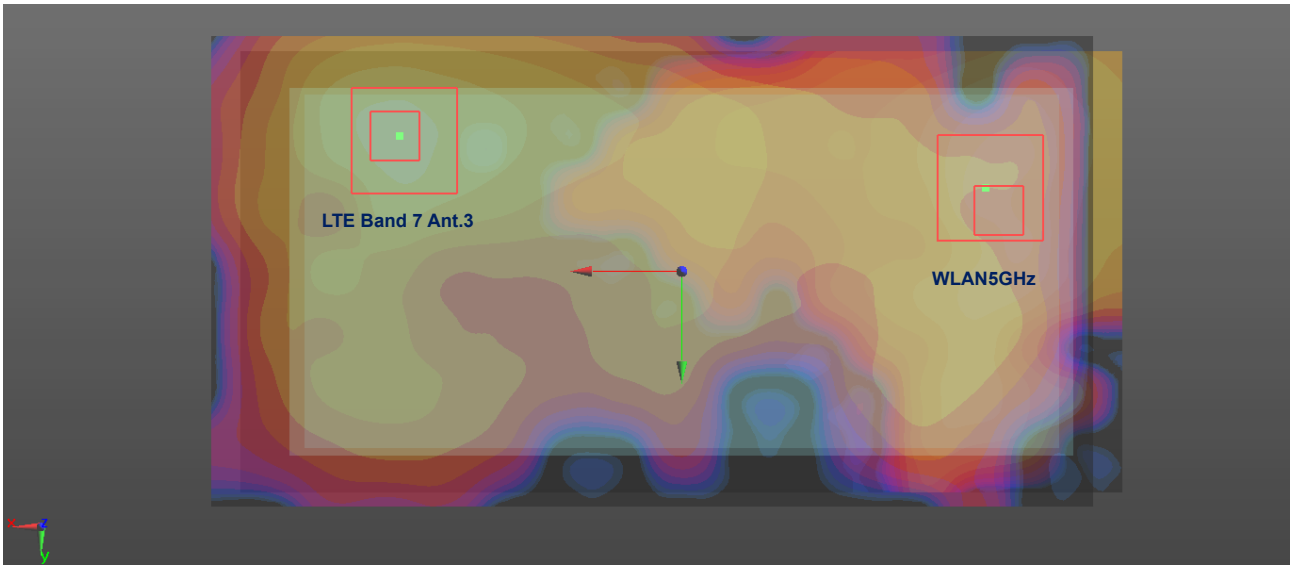
| Case #57 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.2 | Back | 0.621 | 5 | 5.6 | 2.74 | 0.36 | 126.8 | 1.79 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



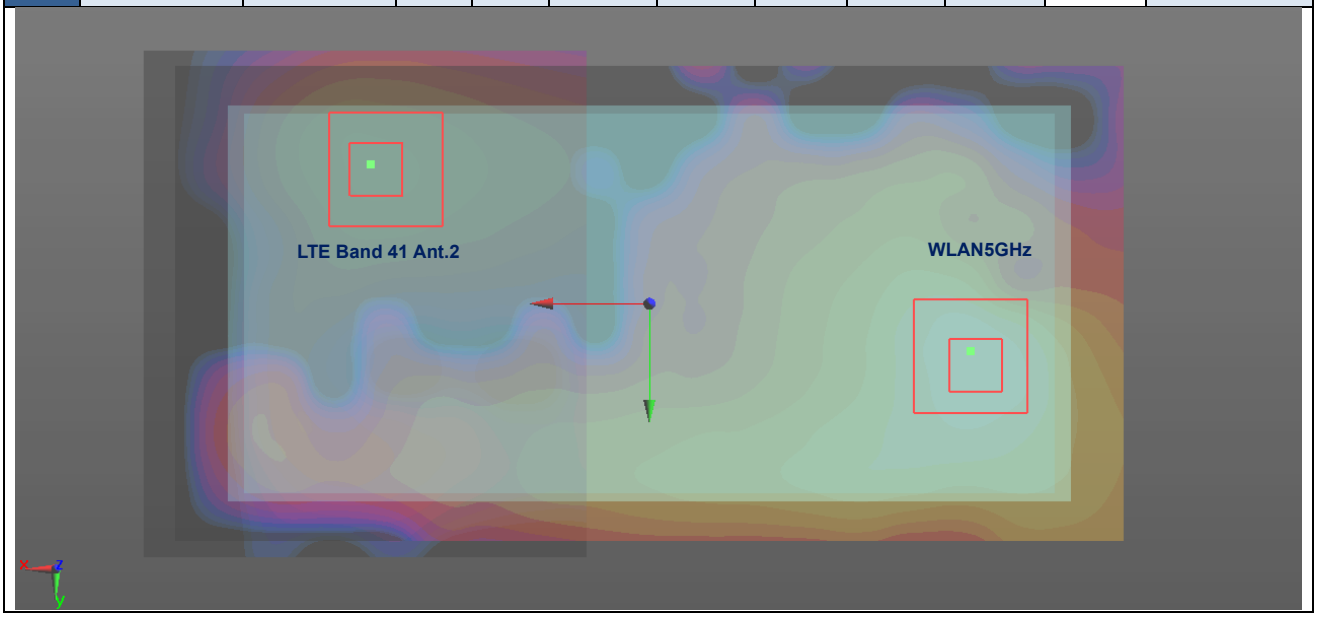

| Case #58 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.3 | Front | 0.961 | 5 | 5.94 | 2.5 | 0.37 | 123.5 | 2.13 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



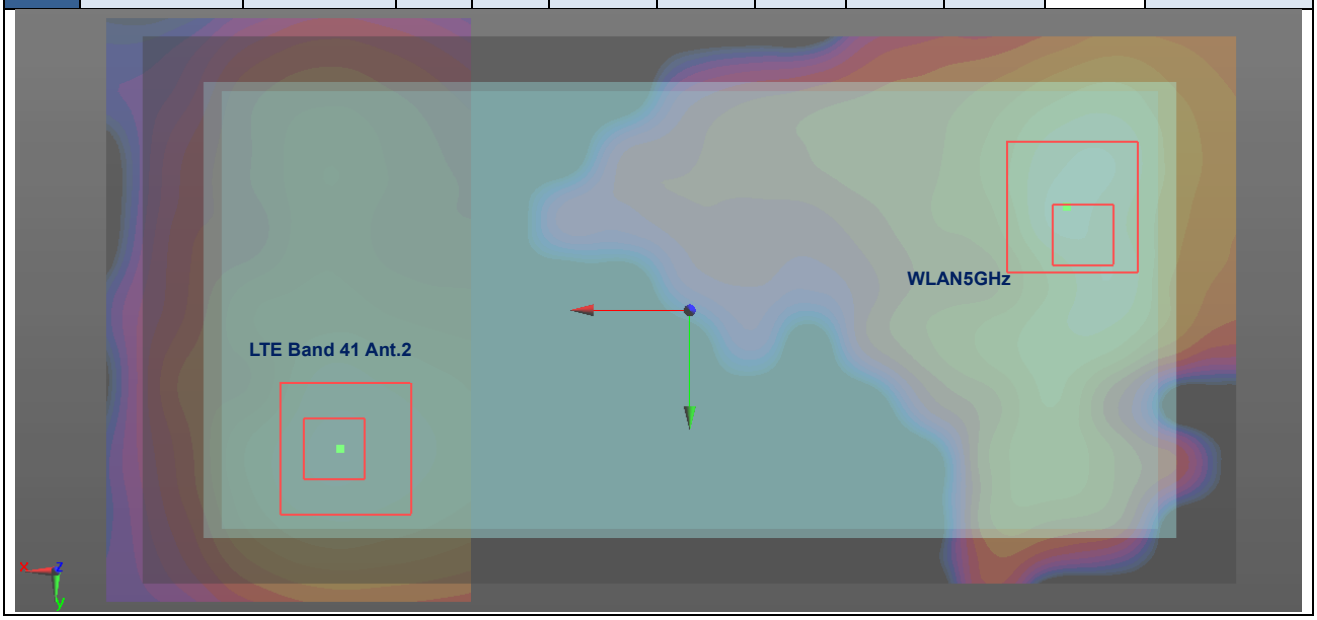
| Case #59 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 7 Ant.3 | Back | 0.664 | 5 | 5.6 | 2.74 | 0.36 | 126.8 | 1.83 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



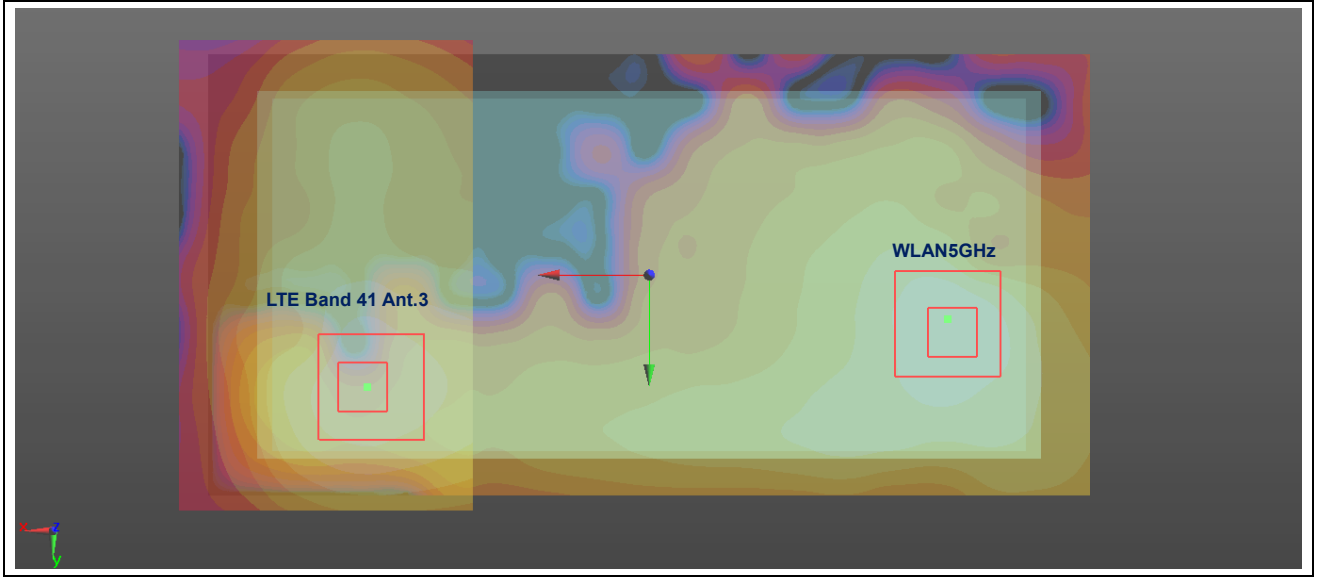

| Case #60 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.2 | Front | 0.956 | 5 | 5.74 | 2.82 | 0.43 | 121.86 | 2.12 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



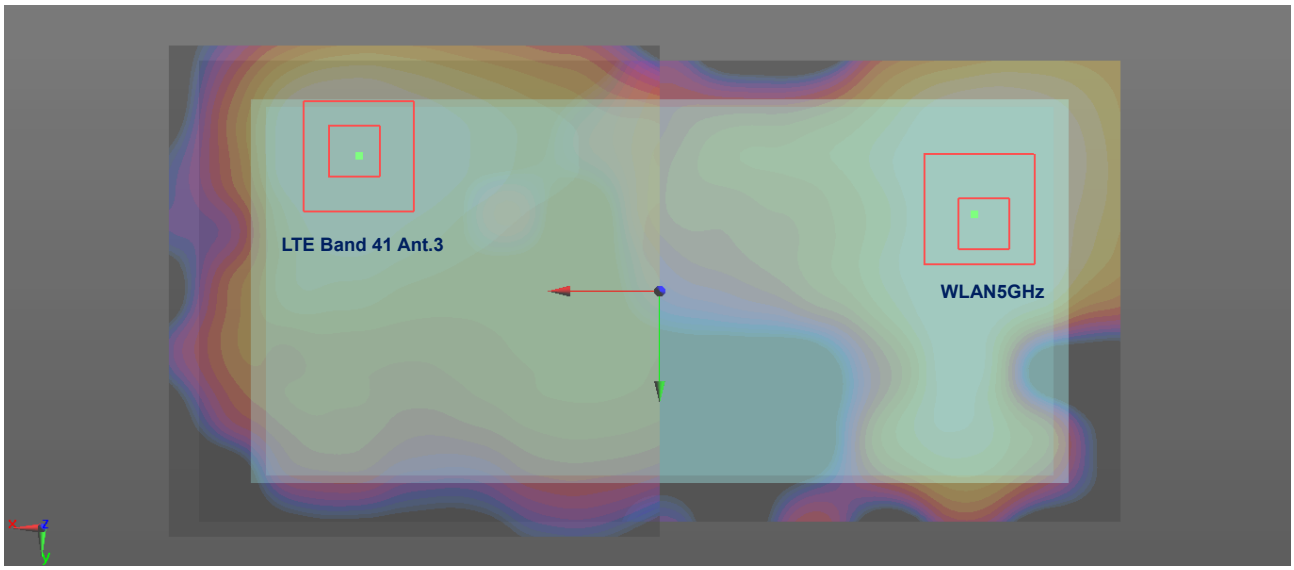
| Case #61 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.2 | Back | 0.548 | 5 | 5.28 | -2.64 | 0.39 | 119.16 | 1.72 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



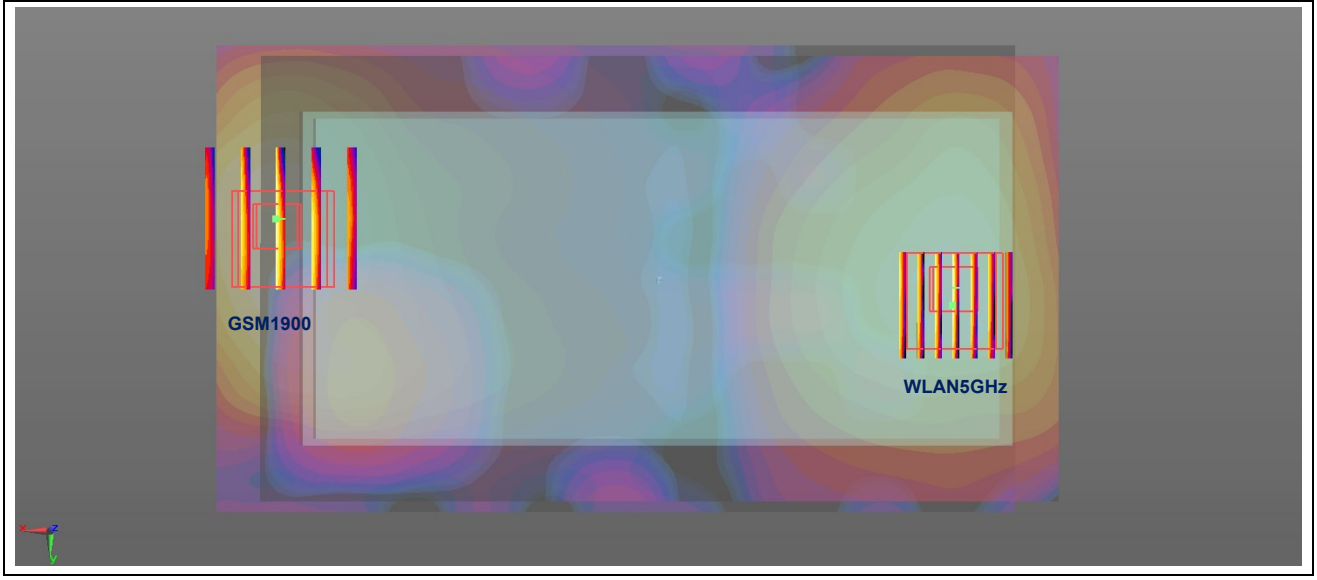

| Case #62 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.3 | Front | 1.082 | 5 | 6.06 | 2.28 | 0.4 | 124.5 | 2.25 | 0.03 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.34 | 1.22 | 0.38 | | | | |



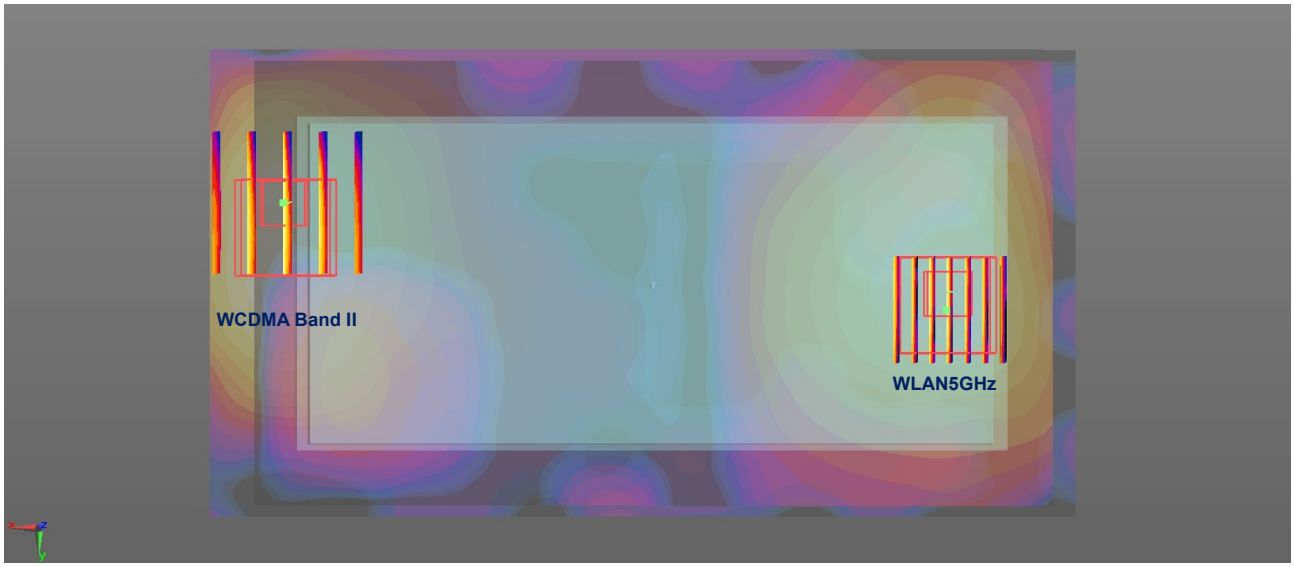
| Case #63 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 1g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 41 Ant.3 | Back | 0.453 | 5 | 5.28 | -2.64 | 0.39 | 119.2 | 1.62 | 0.02 | Not required |
| | WLAN5GHz | | 1.167 | 5 | -6.52 | -0.98 | 0.37 | | | | |



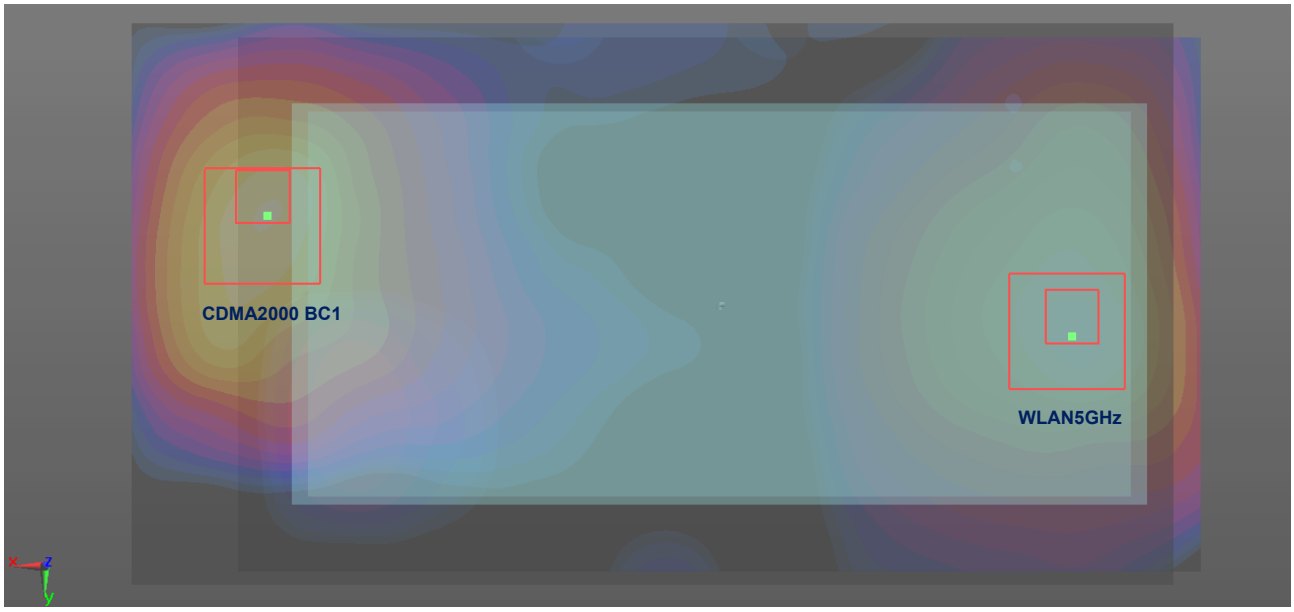

| Case #64 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GSM1900 | Front | 3.131 | 0 | 8.34 | -2.28 | 0.52 | 154.36 | 5.13 | 0.08 | Not required |
| | WLAN5GHz | | 2.002 | 0 | -6.84 | 0.52 | 0.5 | | | | |



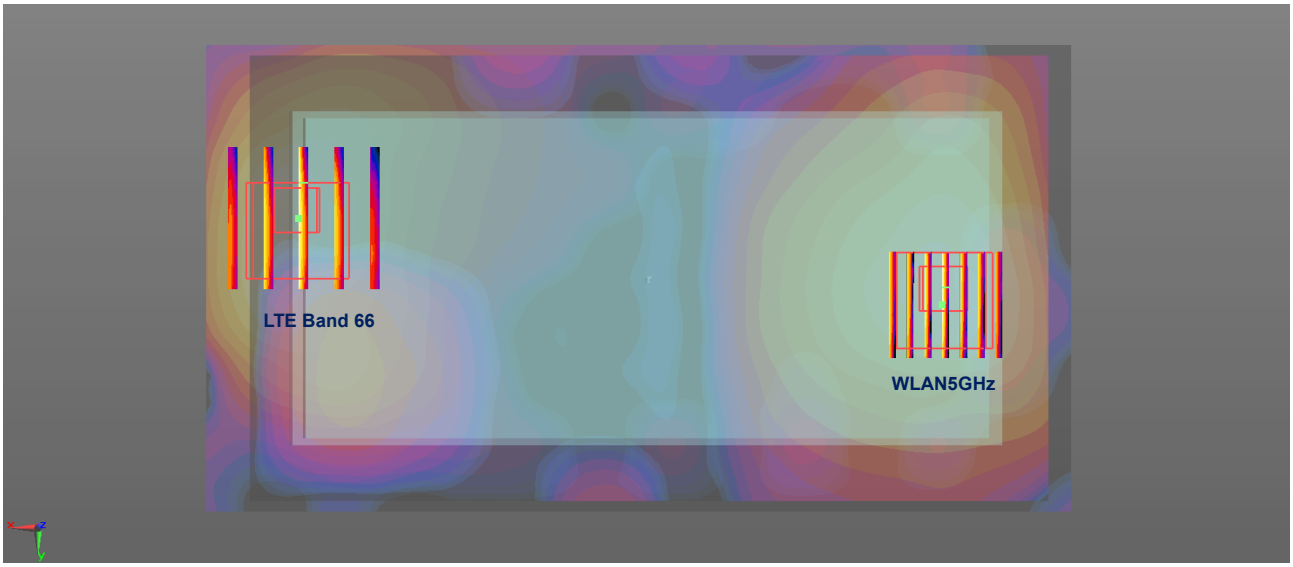
| Case #65 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WCDMA Band II | Front | 2.446 | 0 | 8.19 | -1.64 | 0.52 | 151.84 | 4.45 | 0.06 | Not required |
| | WLAN5GHz | | 2.002 | 0 | -6.84 | 0.52 | 0.5 | | | | |



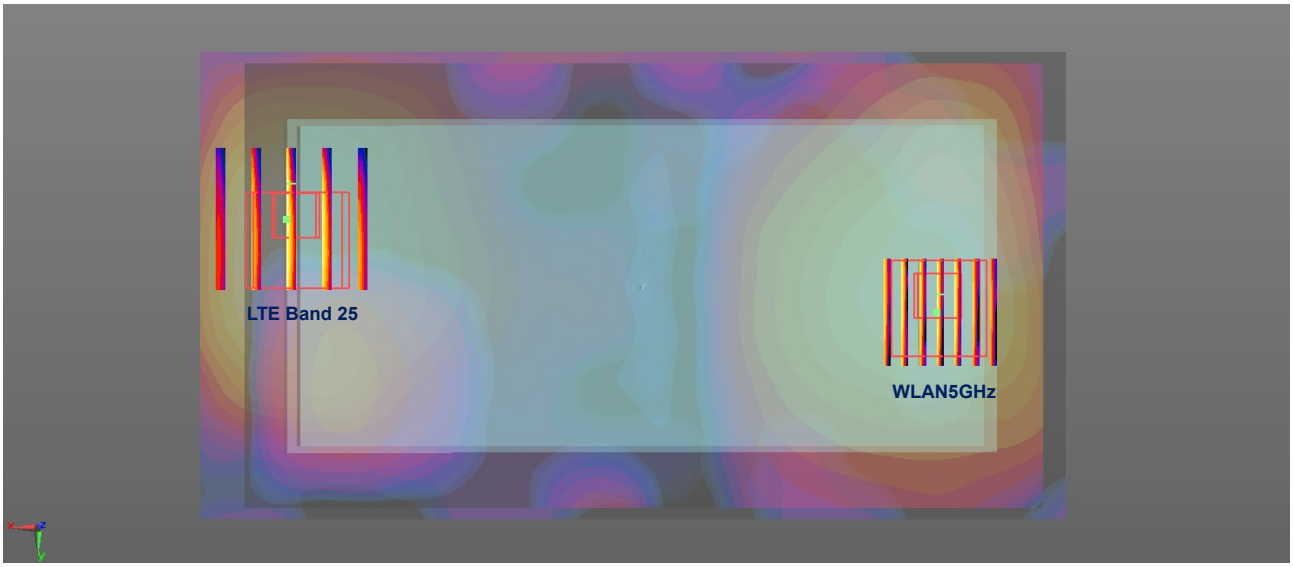

| Case #66 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDMA2000 BC1 | Front | 3.289 | 0 | 8.45 | -2.29 | 0.57 | 155.46 | 5.29 | 0.08 | Not required |
| | WLAN5GHz | | 2.002 | 0 | -6.84 | 0.52 | 0.5 | | | | |



| Case #67 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 66 | Front | 2.859 | 0 | 8.06 | -1.99 | 0.53 | 151.10 | 4.86 | 0.07 | Not required |
| | WLAN5GHz | | 2.002 | 0 | -6.84 | 0.52 | 0.5 | | | | |




| Case #68 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (cm) X | Y | Z | 3D distance (mm) | Summed 10g SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE Band 25 | Front | 2.995 | 0 | 7.89 | -1.98 | 0.52 | 149.41 | 5.00 | 0.07 | Not required |
| | WLAN5GHz | | 2.002 | 0 | -6.84 | 0.52 | 0.5 | | | | |



# 16. Supplemental Tuner Tests Results

**General Note:**

1. 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. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 363 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. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 363 tuner states.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.
4. The device supports both LTE B12 / B17, B25 / B2, B26 / B5 and B66 / B4. Since the supported frequency span for LTE B17, B2, B5 and B4 fall completely within the supported frequency span for LTE B12, B25, B26 and B66, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR and antenna tuner single point SAR measurement was only assessed for LTE B12, B25, B26 and B66.

## 16.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix C.

**Test Engineer:** Nick Hu

# 17. Uncertainty Assessment

Pre 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.

# 18. 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 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015

[11] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015

[12] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015

[13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

# Appendix A. Plots of System Performance Check

The plots are shown as follows.

# Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

# Appendix C. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

# Appendix D. DASY Calibration Certificate

The DASY calibration certificates are shown as follows.