| | Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---|---|---|---|---|
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 12.75 |
| | | 6 | 2437 | 13.64 |
| | | 11 | 2462 | 14.21 |
| | 802.11g 6Mbps | 1 | 2412 | 14.02 |
| | | 6 | 2437 | 14.32 |
| | | 11 | 2462 | 13.70 |
| | 802.11n-HT20 MCS0 | 1 | 2412 | 13.75 |
| | | 6 | 2437 | 14.24 |
| | | 11 | 2462 | 13.85 |
| | 802.11n-HT40 MCS0 | 3 | 2422 | 13.99 |
| | | 6 | 2437 | 16.02 |
| | | 9 | 2452 | 13.38 |

| Bluetooth | | | |
|---|---|---|---|
| **Mode** | **Channel** | **Frequency (MHz)** | **Average Power (dBm)** |
| BR / EDR | 0 | 2402 | 3.41 |
| | 39 | 2441 | 2.72 |
| | 78 | 2480 | 4.51 |
| BLE 1Mbps | 0 | 2402 | 2.42 |
| | 19 | 2440 | 1.81 |
| | 39 | 2480 | 3.49 |
| BLE 2Mbps | 0 | 2402 | -0.42 |
| | 19 | 2440 | -0.62 |
| | 39 | 2480 | 0.91 |
| BLE S2 | 0 | 2402 | 2.01 |
| | 19 | 2440 | 1.96 |
| | 39 | 2480 | 2.90 |
| BLE S8 | 0 | 2402 | 3.67 |
| | 19 | 2440 | 3.15 |
| | 39 | 2480 | 4.71 |
| 2nd BLE 1Mbps | 0 | 2402 | 2.88 |
| | 19 | 2440 | 3.71 |
| | 39 | 2480 | 4.42 |
| 2nd BLE 2Mbps | 0 | 2402 | 1.43 |
| | 19 | 2440 | 2.33 |
| | 39 | 2480 | 3.05 |
| 2nd BLE S2 | 0 | 2402 | 3.18 |
| | 19 | 2440 | 3.54 |
| | 39 | 2480 | 4.31 |
| 2nd BLE S8 | 0 | 2402 | 3.37 |
| | 19 | 2440 | 4.17 |
| | 39 | 2480 | 4.73 |

| | Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---|---|---|---|---|
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | 13.38 |
| | | 40 | 5200 | 15.58 |
| | | 44 | 5220 | 15.78 |
| | | 48 | 5240 | 15.80 |
| | 802.11n-HT20 MCS0 | 36 | 5180 | 12.65 |
| | | 40 | 5200 | 15.38 |
| | | 44 | 5220 | 15.52 |
| | | 48 | 5240 | 15.58 |
| | 802.11n-HT40 MCS0 | 38 | 5190 | 8.80 |
| | | 46 | 5230 | 15.40 |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | 12.60 |
| | | 40 | 5200 | 15.35 |
| | | 44 | 5220 | 15.48 |
| | | 48 | 5240 | 15.52 |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | 8.94 |
| | | 46 | 5230 | 15.16 |
| | 802.11ac-VHT80 MCS0 | 42 | 5210 | 7.43 |

| | Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---|---|---|---|---|
| 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | 15.30 |
| | | 56 | 5280 | 15.88 |
| | | 60 | 5300 | 15.90 |
| | | 64 | 5320 | 15.36 |
| | 802.11n-HT20 MCS0 | 52 | 5260 | 15.60 |
| | | 56 | 5280 | 15.40 |
| | | 60 | 5300 | 15.42 |
| | | 64 | 5320 | 13.45 |
| | 802.11n-HT40 MCS0 | 54 | 5270 | 14.78 |
| | | 62 | 5310 | 9.18 |
| | 802.11ac-VHT20 MCS0 | 52 | 5260 | 15.72 |
| | | 56 | 5280 | 15.52 |
| | | 60 | 5300 | 15.60 |
| | | 64 | 5320 | 13.40 |
| | 802.11ac-VHT40 MCS0 | 54 | 5270 | 15.12 |
| | | 62 | 5310 | 10.18 |
| | 802.11ac-VHT80 MCS0 | 58 | 5290 | 9.22 |

| | Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---|---|---|---|---|
| 5.6GHz WLAN | 802.11a 6Mbps | 100 | 5500 | 14.30 |
| | | 116 | 5580 | 14.58 |
| | | 124 | 5620 | 16.70 |
| | | 132 | 5660 | 16.29 |
| | | 140 | 5700 | 14.30 |
| | | 144 | 5720 | 16.38 |
| | 802.11n-HT20 MCS0 | 100 | 5500 | 14.10 |
| | | 116 | 5580 | 14.32 |
| | | 124 | 5620 | 15.85 |
| | | 132 | 5660 | 15.35 |
| | | 140 | 5700 | 14.20 |
| | | 144 | 5720 | 15.42 |
| | 802.11n-HT40 MCS0 | 102 | 5510 | 13.46 |
| | | 110 | 5550 | 13.90 |
| | | 126 | 5630 | 16.08 |
| | | 134 | 5670 | 13.42 |
| | | 142 | 5710 | 15.40 |
| | 802.11ac-VHT20 MCS0 | 100 | 5500 | 14.08 |
| | | 116 | 5580 | 14.32 |
| | | 124 | 5620 | 15.80 |
| | | 132 | 5660 | 15.37 |
| | | 140 | 5700 | 13.23 |
| | | 144 | 5720 | 15.41 |
| | 802.11ac-VHT40 MCS0 | 102 | 5510 | 12.58 |
| | | 110 | 5550 | 13.92 |
| | | 126 | 5630 | 15.28 |
| | | 134 | 5670 | 15.30 |
| | | 142 | 5710 | 14.60 |
| | 802.11ac-VHT80 MCS0 | 106 | 5530 | 10.35 |
| | | 122 | 5610 | 14.24 |
| | | 138 | 5690 | 13.35 |

| | Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---|---|---|---|---|
| 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | 17.28 |
| | | 157 | 5785 | 17.45 |
| | | 165 | 5825 | 16.80 |
| | 802.11n-HT20 MCS0 | 149 | 5745 | 16.28 |
| | | 157 | 5785 | 16.60 |
| | | 165 | 5825 | 15.80 |
| | 802.11n-HT40 MCS0 | 151 | 5755 | 16.65 |
| | | 159 | 5795 | 16.69 |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | 16.26 |
| | | 157 | 5785 | 16.60 |
| | | 165 | 5825 | 15.82 |
| | 802.11ac-VHT40 MCS0 | 151 | 5755 | 15.58 |
| | | 159 | 5795 | 15.85 |
| | 802.11ac-VHT80 MCS0 | 155 | 5775 | 14.72 |

## 4.6 SAR Testing Results

### 4.6.1 SAR Test Reduction Considerations

**<KDB 447498 D01, General RF Exposure Guidance>**

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

(1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

(2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

(3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

**<KDB 941225 D01, 3G SAR Measurement Procedures>**

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 1/4 dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

**<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>**

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > 1/2 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

**<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>**

(1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is <= 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is <= 0.8 W/kg or all test positions are measured.

(2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is <= 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is <= 1.2 W/kg.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is <= 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is <= 1.2 W/kg.

(4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

### 4.6.2 SAR Results for Head Exposure Condition

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GSM850 | GPRS10 | Right Cheek | 128 | 1 | 30.5 | 30.30 | -0.09 | 0.429 | 1.05 | **0.45** |
| | GSM850 | GPRS10 | Right Cheek | 128 | 2 | 30.5 | 30.30 | -0.03 | 0.424 | 1.05 | 0.44 |
| 2 | GSM1900 | GPRS11 | Right Cheek | 810 | 1 | 26.5 | 26.30 | 0.01 | 0.104 | 1.05 | **0.11** |
| | GSM1900 | GPRS11 | Right Cheek | 810 | 2 | 26.5 | 26.30 | -0.06 | 0.085 | 1.05 | 0.09 |
| 3 | WCDMA II | RMC12.2K | Right Cheek | 9538 | 1 | 22.0 | 21.83 | 0.05 | 0.117 | 1.04 | **0.12** |
| | WCDMA II | RMC12.2K | Right Cheek | 9538 | 2 | 22.0 | 21.83 | 0.01 | 0.114 | 1.04 | 0.12 |
| 4 | WCDMA IV | RMC12.2K | Right Cheek | 1312 | 1 | 21.5 | 21.41 | 0.08 | 0.183 | 1.02 | **0.19** |
| | WCDMA IV | RMC12.2K | Right Cheek | 1312 | 2 | 21.5 | 21.41 | 0.16 | 0.164 | 1.02 | 0.17 |
| 5 | WCDMA V | RMC12.2K | Right Cheek | 4132 | 1 | 24.0 | 23.66 | -0.09 | 0.339 | 1.08 | **0.37** |
| | WCDMA V | RMC12.2K | Right Cheek | 4132 | 2 | 24.0 | 23.66 | -0.06 | 0.320 | 1.08 | 0.35 |

| Plot No. | Band | Mode | Test Position | Ch. | RB# | RB Offset | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | LTE 5 | QPSK10M | Left Cheek | 20525 | 1 | 49 | 1 | - | 24.0 | 23.05 | 0.01 | 0.321 | 1.00 | 1.24 | **0.40** |
| | LTE 5 | QPSK10M | Left Cheek | 20525 | 1 | 49 | 2 | - | 24.0 | 23.05 | 0.11 | 0.320 | 1.00 | 1.24 | 0.40 |
| 7 | LTE 7 | QPSK20M | Left Cheek | 21100 | 1 | 0 | 1 | - | 22.0 | 21.80 | 0.02 | 0.200 | 1.00 | 1.05 | **0.21** |
| | LTE 7 | QPSK20M | Left Cheek | 21100 | 1 | 0 | 2 | - | 22.0 | 21.80 | 0.02 | 0.169 | 1.00 | 1.05 | 0.18 |
| 8 | LTE 12 | QPSK10M | Left Cheek | 23060 | 1 | 0 | 1 | - | 23.5 | 23.22 | 0 | 0.257 | 1.00 | 1.07 | **0.27** |
| | LTE 12 | QPSK10M | Left Cheek | 23060 | 1 | 0 | 2 | - | 23.5 | 23.22 | 0.07 | 0.234 | 1.00 | 1.07 | 0.25 |
| 9 | LTE 13 | QPSK10M | Right Cheek | 23230 | 1 | 0 | 1 | - | 24.0 | 23.56 | 0 | 0.302 | 1.00 | 1.11 | **0.33** |
| | LTE 13 | QPSK10M | Right Cheek | 23230 | 1 | 0 | 2 | - | 24.0 | 23.56 | 0.02 | 0.297 | 1.00 | 1.11 | 0.33 |
| 10 | LTE 14 | QPSK10M | Right Cheek | 23330 | 1 | 0 | 1 | - | 24.0 | 23.65 | 0.07 | 0.264 | 1.00 | 1.08 | **0.29** |
| | LTE 14 | QPSK10M | Right Cheek | 23330 | 1 | 0 | 2 | - | 24.0 | 23.65 | -0.05 | 0.262 | 1.00 | 1.08 | 0.28 |
| 11 | LTE 25 | QPSK20M | Right Cheek | 26590 | 1 | 0 | 1 | - | 21.5 | 21.14 | 0.03 | 0.116 | 1.00 | 1.09 | **0.13** |
| | LTE 25 | QPSK20M | Right Cheek | 26590 | 1 | 0 | 2 | - | 21.5 | 21.14 | 0.05 | 0.107 | 1.00 | 1.09 | 0.12 |
| 12 | LTE 26 | QPSK15M | Left Cheek | 26965 | 1 | 74 | 1 | - | 24.5 | 23.63 | -0.03 | 0.201 | 1.00 | 1.22 | **0.25** |
| | LTE 26 | QPSK15M | Left Cheek | 26965 | 1 | 74 | 2 | - | 24.5 | 23.63 | 0.16 | 0.200 | 1.00 | 1.22 | 0.24 |
| 13 | LTE 30 | QPSK10M | Left Cheek | 27710 | 1 | 0 | 1 | - | 24.0 | 22.65 | 0.03 | 0.188 | 1.00 | 1.36 | **0.26** |
| | LTE 30 | QPSK10M | Left Cheek | 27710 | 1 | 0 | 2 | - | 24.0 | 22.65 | 0.07 | 0.175 | 1.00 | 1.36 | 0.24 |
| 14 | LTE 41 | QPSK20M | Left Cheek | 41055 | 1 | 0 | 1 | 62.9 | 23.0 | 22.22 | 0.04 | 0.091 | 1.01 | 1.20 | **0.11** |
| | LTE CA_41C | QPSK20M | Left Cheek | PCC:41055 SCC:40857 | PCC:1 SCC:0 | PCC:0 SCC:0 | 1 | 62.9 | 23.0 | 21.28 | -0.05 | 0.069 | 1.01 | 1.49 | 0.10 |
| | LTE 41 | QPSK20M | Left Cheek | 41055 | 1 | 0 | | 62.9 | 23.0 | 22.22 | 0.08 | 0.090 | 1.01 | 1.20 | 0.11 |
| 15 | LTE 66 | QPSK20M | Right Cheek | 132072 | 1 | 50 | 1 | - | 21.0 | 20.67 | -0.08 | 0.155 | 1.00 | 1.08 | **0.17** |
| | LTE 66 | QPSK20M | Right Cheek | 132072 | 1 | 50 | 2 | - | 21.0 | 20.67 | -0.08 | 0.152 | 1.00 | 1.08 | 0.16 |
| 16 | LTE 71 | QPSK20M | Right Cheek | 133222 | 1 | 50 | 1 | - | 23.0 | 21.70 | 0.09 | 0.242 | 1.00 | 1.35 | **0.33** |
| | LTE 71 | QPSK20M | Right Cheek | 133222 | 1 | 50 | 2 | - | 23.0 | 21.70 | -0.13 | 0.180 | 1.00 | 1.35 | 0.24 |

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | WLAN2.4G | 802.11b | Left Cheek | 11 | 1 | 100 | 15.5 | 14.21 | -0.03 | 0.252 | 1.00 | 1.35 | **0.34** |
| | WLAN2.4G | 802.11b | Left Cheek | 11 | 2 | 100 | 15.5 | 14.21 | 0 | 0.217 | 1.00 | 1.35 | 0.29 |
| 18 | WLAN5G | 802.11a | Left Cheek | 60 | 1 | 97.2 | 16.0 | 15.90 | 0.08 | 0.499 | 1.03 | 1.02 | **0.53** |
| | WLAN5G | 802.11a | Left Cheek | 60 | 2 | 97.2 | 16.0 | 15.90 | 0.05 | 0.473 | 1.03 | 1.02 | 0.50 |
| 19 | WLAN5G | 802.11a | Left Cheek | 144 | 1 | 97.2 | 17.0 | 16.38 | 0.04 | 0.552 | 1.03 | 1.15 | **0.66** |
| | WLAN5G | 802.11a | Left Cheek | 144 | 2 | 97.2 | 17.0 | 16.38 | -0.03 | 0.437 | 1.03 | 1.15 | 0.52 |
| 20 | WLAN5G | 802.11a | Left Cheek | 157 | 1 | 98.1 | 18.0 | 17.45 | 0 | 0.872 | 1.02 | 1.14 | **1.01** |
| | WLAN5G | 802.11a | Left Cheek | 149 | 1 | 98.1 | 18.0 | 17.28 | 0.02 | 0.695 | 1.02 | 1.18 | 0.84 |
| | WLAN5G | 802.11a | Left Cheek | 165 | 1 | 98.1 | 17.0 | 16.80 | 0.02 | 0.833 | 1.02 | 1.05 | 0.89 |
| | WLAN5G | 802.11a | Left Cheek | 157 | 2 | 98.1 | 18.0 | 17.45 | 0.09 | 0.726 | 1.02 | 1.14 | 0.84 |
| 21 | BT | GFSK | Left Cheek | 78 | 1 | 76.8 | 6.0 | 4.51 | 0.01 | 0.066 | 1.30 | 1.41 | **0.12** |
| | BT | GFSK | Left Cheek | 78 | 2 | 76.8 | 6.0 | 4.51 | 0.04 | 0.045 | 1.30 | 1.41 | 0.08 |

### 4.6.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm Gap)

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | GSM850 | GPRS10 | Rear Face | 128 | 1 | 30.5 | 30.30 | -0.16 | 0.515 | 1.05 | **0.54** |
| | GSM850 | GPRS10 | Rear Face | 128 | 2 | 30.5 | 30.30 | -0.1 | 0.372 | 1.05 | 0.39 |
| 23 | GSM1900 | GPRS11 | Rear Face | 810 | 1 | 26.5 | 26.03 | 0.01 | 0.647 | 1.11 | **0.72** |
| | GSM1900 | GPRS11 | Rear Face | 512 | 2 | 26.5 | 26.03 | -0.11 | 0.531 | 1.11 | 0.59 |
| | WCDMA II | RMC12.2K | Rear Face | 9400 | 1 | 22.0 | 21.83 | 0.02 | 0.903 | 1.04 | 0.94 |
| | WCDMA II | RMC12.2K | Rear Face | 9262 | 1 | 22.0 | 21.81 | 0.1 | 0.891 | 1.04 | 0.93 |
| 24 | WCDMA II | RMC12.2K | Rear Face | 9538 | 1 | 22.0 | 21.63 | -0.1 | 0.923 | 1.09 | **1.01** |
| | WCDMA II | RMC12.2K | Rear Face | 9538 | 2 | 22.0 | 21.63 | -0.09 | 0.895 | 1.09 | 0.97 |
| 25 | WCDMA IV | RMC12.2K | Rear Face | 1312 | 1 | 21.5 | 21.41 | 0.05 | 1.080 | 1.02 | 1.10 |
| | WCDMA IV | RMC12.2K | Rear Face | 1413 | 1 | 21.5 | 21.45 | 0.13 | 1.020 | 1.01 | 1.03 |
| | WCDMA IV | RMC12.2K | Rear Face | 1513 | 1 | 21.5 | 21.38 | -0.04 | 0.977 | 1.03 | 1.00 |
| | WCDMA IV | RMC12.2K | Rear Face | 1312 | 2 | 21.5 | 21.41 | 0.09 | 1.070 | 1.02 | 1.09 |
| 26 | WCDMA V | RMC12.2K | Rear Face | 4132 | 1 | 24.0 | 23.66 | 0.07 | 0.436 | 1.08 | 0.47 |
| | WCDMA V | RMC12.2K | Rear Face | 4132 | 2 | 24.0 | 23.66 | -0.03 | 0.327 | 1.08 | 0.35 |

| Plot No. | Band | Mode | Test Position | Ch. | RB# | RB Offset | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | LTE 5 | QPSK10M | Rear Face | 20525 | 1 | 49 | 1 | - | 24.0 | 23.20 | 0.02 | 0.371 | 1.00 | 1.20 | **0.45** |
| | LTE 5 | QPSK10M | Rear Face | 20525 | 1 | 49 | 2 | - | 24.0 | 23.20 | -0.07 | 0.343 | 1.00 | 1.20 | 0.41 |
| 28 | LTE 7 | QPSK20M | Rear Face | 21350 | 1 | 0 | 1 | - | 22.0 | 21.55 | 0.03 | 0.877 | 1.00 | 1.11 | **0.97** |
| | LTE 7 | QPSK20M | Rear Face | 20850 | 1 | 0 | 1 | - | 22.0 | 21.50 | -0.03 | 0.528 | 1.00 | 1.12 | 0.59 |
| | LTE 7 | QPSK20M | Rear Face | 21100 | 1 | 0 | 1 | - | 22.0 | 21.80 | -0.01 | 0.783 | 1.00 | 1.05 | 0.82 |
| | LTE 7 | QPSK20M | Rear Face | 21350 | 1 | 0 | 2 | - | 22.0 | 21.55 | -0.13 | 0.865 | 1.00 | 1.11 | 0.96 |
| 29 | LTE 12 | QPSK10M | Rear Face | 23060 | 1 | 0 | 1 | - | 23.5 | 23.22 | 0.12 | 0.324 | 1.00 | 1.07 | **0.35** |
| | LTE 12 | QPSK10M | Rear Face | 23060 | 1 | 0 | 2 | - | 23.5 | 23.22 | 0.02 | 0.311 | 1.00 | 1.07 | 0.33 |
| 30 | LTE 13 | QPSK10M | Rear Face | 23230 | 1 | 0 | 1 | - | 24.0 | 23.56 | -0.08 | 0.482 | 1.00 | 1.11 | **0.53** |
| | LTE 13 | QPSK10M | Rear Face | 23230 | 1 | 0 | 2 | - | 24.0 | 23.56 | -0.07 | 0.474 | 1.00 | 1.11 | 0.52 |
| 31 | LTE 14 | QPSK10M | Rear Face | 23330 | 1 | 0 | 1 | - | 24.0 | 23.65 | -0.05 | 0.391 | 1.00 | 1.08 | **0.42** |
| | LTE 14 | QPSK10M | Rear Face | 23330 | 1 | 0 | 2 | - | 24.0 | 23.65 | -0.03 | 0.361 | 1.00 | 1.08 | 0.39 |
| | LTE 25 | QPSK20M | Rear Face | 26590 | 1 | 0 | 1 | - | 21.5 | 21.14 | -0.01 | 0.827 | 1.00 | 1.09 | 0.90 |
| | LTE 25 | QPSK20M | Rear Face | 26140 | 1 | 0 | 1 | - | 21.5 | 20.72 | 0.03 | 0.597 | 1.00 | 1.20 | 0.71 |
| 32 | LTE 25 | QPSK20M | Rear Face | 26365 | 1 | 0 | 1 | - | 21.5 | 21.19 | -0.08 | 0.851 | 1.00 | 1.07 | **0.91** |
| | LTE 25 | QPSK20M | Rear Face | 26365 | 1 | 0 | 2 | - | 21.5 | 21.19 | -0.04 | 0.845 | 1.00 | 1.07 | 0.91 |
| 33 | LTE 26 | QPSK15M | Rear Face | 26865 | 1 | 74 | 1 | - | 24.5 | 23.54 | 0.01 | 0.385 | 1.00 | 1.25 | **0.48** |
| | LTE 26 | QPSK15M | Rear Face | 26865 | 1 | 74 | 2 | - | 24.5 | 23.54 | -0.02 | 0.382 | 1.00 | 1.25 | 0.48 |
| 34 | LTE 30 | QPSK10M | Rear Face | 27710 | 1 | 0 | 1 | - | 24.0 | 22.65 | 0 | 0.668 | 1.00 | 1.36 | **0.91** |
| | LTE 30 | QPSK10M | Rear Face | 27710 | 1 | 0 | 2 | - | 24.0 | 22.65 | -0.03 | 0.572 | 1.00 | 1.36 | 0.78 |
| 35 | LTE 41 | QPSK20M | Rear Face | 40185 | 1 | 0 | 1 | 62.9 | 23.0 | 22.17 | 0.04 | 0.550 | 1.01 | 1.21 | **0.67** |
| | LTE CA_41C | QPSK20M | Rear Face | PCC:40185 SCC:39987 | PCC:1 SCC:0 | PCC:0 SCC:0 | 1 | 62.9 | 23.0 | 22.03 | 0.01 | 0.509 | 1.01 | 1.25 | 0.64 |
| | LTE 41 | QPSK20M | Rear Face | 40185 | 1 | 0 | 2 | 62.9 | 23.0 | 22.17 | -0.08 | 0.548 | 1.01 | 1.21 | 0.67 |
| 36 | LTE 66 | QPSK20M | Rear Face | 132072 | 1 | 50 | 1 | - | 21.0 | 20.67 | -0.17 | 1.080 | 1.00 | 1.08 | **1.17** |
| | LTE 66 | QPSK20M | Rear Face | 132322 | 1 | 50 | 1 | - | 21.0 | 20.77 | 0.06 | 1.000 | 1.00 | 1.05 | 1.05 |
| | LTE 66 | QPSK20M | Rear Face | 132572 | 1 | 50 | 1 | - | 21.0 | 20.73 | -0.04 | 0.920 | 1.00 | 1.06 | 0.98 |
| | LTE 66 | QPSK20M | Rear Face | 132072 | 1 | 50 | 2 | - | 21.0 | 20.67 | -0.16 | 1.060 | 1.00 | 1.08 | 1.14 |
| 37 | LTE 71 | QPSK20M | Rear Face | 133372 | 1 | 50 | 1 | - | 23.0 | 21.49 | -0.14 | 0.337 | 1.00 | 1.42 | **0.48** |
| | LTE 71 | QPSK20M | Rear Face | 133372 | 1 | 50 | 2 | - | 23.0 | 21.49 | -0.06 | 0.275 | 1.00 | 1.42 | 0.39 |

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 38 | WLAN2.4G | 802.11b | Front Face | 11 | 1 | 100 | 15.5 | 14.21 | 0.02 | 0.049 | 1.00 | 1.35 | **0.07** |
| | WLAN2.4G | 802.11b | Front Face | 11 | 2 | 100 | 15.5 | 14.21 | 0.04 | 0.037 | 1.00 | 1.35 | 0.05 |

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | WLAN5G | 802.11a | Rear Face | 60 | 1 | 97.2 | 16.0 | 15.90 | 0.1 | 0.517 | 1.03 | 1.02 | **0.54** |
| | WLAN5G | 802.11a | Rear Face | 60 | 2 | 97.2 | 16.0 | 15.90 | 0.17 | 0.481 | 1.03 | 1.02 | 0.51 |
| 40 | WLAN5G | 802.11a | Rear Face | 144 | 1 | 97.2 | 17.0 | 16.38 | 0.13 | 0.576 | 1.03 | 1.15 | **0.68** |
| | WLAN5G | 802.11a | Rear Face | 144 | 2 | 97.2 | 17.0 | 16.38 | -0.03 | 0.457 | 1.03 | 1.15 | 0.54 |
| 41 | WLAN5G | 802.11a | Rear Face | 149 | 1 | 98.1 | 18.0 | 17.28 | -0.01 | 0.669 | 1.02 | 1.18 | **0.79** |
| | WLAN5G | 802.11a | Rear Face | 149 | 2 | 98.1 | 18.0 | 17.28 | -0.07 | 0.536 | 1.02 | 1.18 | 0.64 |
| 42 | BT | GFSK | Rear Face | 78 | 1 | 76.8 | 6.0 | 4.51 | -0.09 | 0.00879 | 1.30 | 1.41 | **0.02** |
| | BT | GFSK | Rear Face | 78 | 2 | 76.8 | 6.0 | 4.51 | 0 | 0.00656 | 1.30 | 1.41 | 0.01 |

### 4.6.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | GSM850 | GPRS10 | Rear Face | 128 | 1 | 30.5 | 30.30 | -0.16 | 0.515 | 1.05 | **0.54** |
| | GSM850 | GPRS10 | Rear Face | 128 | 2 | 30.5 | 30.30 | -0.1 | 0.372 | 1.05 | 0.39 |
| | GSM1900 | GPRS11 | Rear Face | 810 | 1 | 26.5 | 26.03 | 0.01 | 0.647 | 1.11 | **0.72** |
| 45 | GSM1900 | GPRS11 | Rear Face | 512 | 2 | 26.5 | 26.03 | -0.11 | 0.531 | 1.11 | 0.59 |
| | WCDMA II | RMC12.2K | Rear Face | 9400 | 1 | 22.0 | 21.83 | 0.02 | 0.903 | 1.04 | 0.94 |
| | WCDMA II | RMC12.2K | Rear Face | 9262 | 1 | 22.0 | 21.81 | 0.1 | 0.891 | 1.04 | 0.93 |
| 46 | WCDMA II | RMC12.2K | Rear Face | 9538 | 1 | 22.0 | 21.63 | -0.1 | 0.923 | 1.09 | **1.01** |
| | WCDMA II | RMC12.2K | Rear Face | 9538 | 2 | 22.0 | 21.63 | -0.09 | 0.895 | 1.09 | 0.97 |
| 46 | WCDMA IV | RMC12.2K | Rear Face | 1312 | 1 | 21.5 | 21.41 | 0.05 | 1.080 | 1.02 | **1.10** |
| | WCDMA IV | RMC12.2K | Rear Face | 1413 | 1 | 21.5 | 21.45 | 0.13 | 1.020 | 1.01 | 1.03 |
| | WCDMA IV | RMC12.2K | Rear Face | 1513 | 1 | 21.5 | 21.38 | -0.04 | 0.977 | 1.03 | 1.00 |
| | WCDMA IV | RMC12.2K | Rear Face | 1312 | 2 | 21.5 | 21.41 | 0.09 | 1.070 | 1.02 | 1.09 |
| 47 | WCDMA V | RMC12.2K | Rear Face | 4132 | 1 | 24.0 | 23.66 | 0.07 | 0.436 | 1.08 | **0.47** |
| | WCDMA V | RMC12.2K | Rear Face | 4132 | 2 | 24.0 | 23.66 | -0.03 | 0.327 | 1.08 | 0.35 |

| Plot No. | Band | Mode | Test Position | Ch. | RB# | RB Offset | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | LTE 5 | QPSK10M | Rear Face | 20525 | 1 | 49 | 1 | - | 24.0 | 23.20 | 0.02 | 0.371 | 1.00 | 1.20 | **0.45** |
| | LTE 5 | QPSK10M | Rear Face | 20525 | 1 | 49 | 2 | - | 24.0 | 23.20 | -0.07 | 0.343 | 1.00 | 1.20 | 0.41 |
| 49 | LTE 7 | QPSK20M | Bottom Side | 21350 | 1 | 0 | 1 | - | 22.0 | 21.55 | 0.03 | 0.858 | 1.00 | 1.11 | **0.95** |
| | LTE 7 | QPSK20M | Bottom Side | 20850 | 1 | 0 | 1 | - | 22.0 | 21.50 | 0.03 | 0.522 | 1.00 | 1.12 | 0.59 |
| | LTE 7 | QPSK20M | Bottom Side | 21100 | 1 | 0 | 1 | - | 22.0 | 21.80 | -0.02 | 0.760 | 1.00 | 1.05 | 0.80 |
| | LTE 7 | QPSK20M | Bottom Side | 21350 | 1 | 0 | 2 | - | 22.0 | 21.55 | -0.17 | 0.841 | 1.00 | 1.11 | 0.93 |
| 50 | LTE 12 | QPSK10M | Rear Face | 23060 | 1 | 0 | 1 | - | 23.5 | 23.22 | 0.12 | 0.324 | 1.00 | 1.07 | **0.35** |
| | LTE 12 | QPSK10M | Rear Face | 23060 | 1 | 0 | 2 | - | 23.5 | 23.22 | 0.02 | 0.311 | 1.00 | 1.07 | 0.33 |
| 51 | LTE 13 | QPSK10M | Rear Face | 23230 | 1 | 0 | 1 | - | 24.0 | 23.56 | -0.08 | 0.482 | 1.00 | 1.11 | **0.53** |
| | LTE 13 | QPSK10M | Rear Face | 23230 | 1 | 0 | 2 | - | 24.0 | 23.56 | -0.07 | 0.474 | 1.00 | 1.11 | 0.52 |
| 52 | LTE 14 | QPSK10M | Rear Face | 23330 | 1 | 0 | 1 | - | 24.0 | 23.65 | -0.05 | 0.391 | 1.00 | 1.08 | **0.42** |
| | LTE 14 | QPSK10M | Rear Face | 23330 | 1 | 0 | 2 | - | 24.0 | 23.65 | -0.03 | 0.361 | 1.00 | 1.08 | 0.39 |
| | LTE 25 | QPSK20M | Rear Face | 26590 | 1 | 0 | 1 | - | 21.5 | 21.14 | -0.01 | 0.827 | 1.00 | 1.09 | 0.90 |
| | LTE 25 | QPSK20M | Rear Face | 26140 | 1 | 0 | 1 | - | 21.5 | 20.72 | 0.03 | 0.597 | 1.00 | 1.20 | 0.71 |
| 53 | LTE 25 | QPSK20M | Rear Face | 26365 | 1 | 0 | 1 | - | 21.5 | 21.19 | -0.08 | 0.851 | 1.00 | 1.07 | **0.91** |
| | LTE 25 | QPSK20M | Rear Face | 26365 | 1 | 0 | 2 | - | 21.5 | 21.19 | -0.04 | 0.845 | 1.00 | 1.07 | 0.91 |
| 54 | LTE 26 | QPSK15M | Rear Face | 26865 | 1 | 74 | 1 | - | 24.5 | 23.54 | 0.01 | 0.385 | 1.00 | 1.25 | **0.48** |
| | LTE 26 | QPSK15M | Rear Face | 26865 | 1 | 74 | 2 | - | 24.5 | 23.54 | -0.02 | 0.382 | 1.00 | 1.25 | 0.48 |
| 55 | LTE 30 | QPSK10M | Bottom Side | 27710 | 1 | 0 | 1 | - | 24.0 | 22.65 | -0.04 | 0.566 | 1.00 | 1.36 | **0.77** |
| | LTE 30 | QPSK10M | Bottom Side | 27710 | 1 | 0 | 2 | - | 24.0 | 22.65 | -0.14 | 0.543 | 1.00 | 1.36 | 0.74 |
| 56 | LTE 41 | QPSK20M | Bottom Side | 40620 | 1 | 0 | 1 | 62.9 | 23.0 | 22.35 | -0.06 | 0.523 | 1.01 | 1.16 | **0.61** |
| | LTE CA_41C | QPSK20M | Bottom Side | PCC:40620 SCC:40422 | PCC:1 SCC:0 | PCC:0 SCC:0 | 1 | 62.9 | 23.0 | 21.10 | -0.07 | 0.388 | 1.01 | 1.55 | 0.60 |
| | LTE 41 | QPSK20M | Bottom Side | 40620 | 1 | 0 | 2 | | 23.0 | 22.35 | -0.09 | 0.386 | 1.01 | 1.16 | 0.45 |
| 57 | LTE 66 | QPSK20M | Rear Face | 132072 | 1 | 50 | 1 | - | 21.0 | 20.67 | -0.17 | 1.080 | 1.00 | 1.08 | **1.17** |

| Plot No. | Band | Mode | Test Position | Ch. | RB# | RB Offset | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LTE 66 | QPSK20M | Rear Face | 132322 | 1 | 50 | 1 | - | 21.0 | 20.77 | 0.06 | 1.000 | 1.00 | 1.05 | 1.05 |
| | LTE 66 | QPSK20M | Rear Face | 132572 | 1 | 50 | 1 | - | 21.0 | 20.73 | -0.04 | 0.920 | 1.00 | 1.06 | 0.98 |
| | LTE 66 | QPSK20M | Rear Face | 132072 | 1 | 50 | 2 | - | 21.0 | 20.67 | -0.16 | 1.060 | 1.00 | 1.08 | 1.14 |
| 58 | LTE 71 | QPSK20M | Rear Face | 133372 | 1 | 50 | 1 | - | 23.0 | 21.49 | -0.14 | 0.337 | 1.00 | 1.42 | **0.48** |
| | LTE 71 | QPSK20M | Rear Face | 133372 | 1 | 50 | 2 | - | 23.0 | 21.49 | -0.06 | 0.275 | 1.00 | 1.42 | 0.39 |

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-1g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | WLAN2.4G | 802.11b | Right Side | 11 | 1 | 100 | 15.5 | 14.21 | 0.08 | 0.059 | 1.00 | 1.34 | **0.08** |
| | WLAN2.4G | 802.11b | Right Side | 11 | 2 | 100 | 15.5 | 14.21 | 0.04 | 0.054 | 1.00 | 1.35 | 0.07 |
| 60 | WLAN5G | 802.11a | Right Side | 44 | 1 | 97.2 | 16.0 | 15.78 | -0.04 | 0.557 | 1.03 | 1.05 | **0.60** |
| | WLAN5G | 802.11a | Right Side | 44 | 2 | 97.2 | 16.0 | 15.78 | 0.06 | 0.461 | 1.03 | 1.05 | 0.50 |
| 61 | WLAN5G | 802.11a | Rear Face | 149 | 1 | 98.1 | 18.0 | 17.28 | -0.01 | 0.669 | 1.02 | 1.18 | **0.79** |
| | WLAN5G | 802.11a | Rear Face | 149 | 2 | 98.1 | 18.0 | 17.28 | -0.07 | 0.536 | 1.02 | 1.18 | 0.64 |
| 62 | BT | GFSK | Right Side | 78 | 1 | 76.8 | 6.0 | 4.51 | 0.01 | 0.016 | 1.30 | 1.41 | **0.03** |
| | BT | GFSK | Right Side | 78 | 2 | 76.8 | 6.0 | 4.51 | 0.02 | 0.011 | 1.30 | 1.41 | 0.02 |

### 4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

| Plot No. | Band | Mode | Test Position | Ch. | RB# | RB Offset | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-10g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-10g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | LTE 7 | QPSK20M | Bottom Side | 21350 | 1 | 0 | 1 | - | 22.0 | 21.55 | 0.01 | 1.800 | 1.00 | 1.11 | **2.00** |
| | LTE 7 | QPSK20M | Bottom Side | 20850 | 1 | 0 | 1 | - | 22.0 | 21.50 | -0.02 | 1.290 | 1.00 | 1.12 | 1.45 |
| | LTE 7 | QPSK20M | Bottom Side | 21100 | 1 | 0 | 1 | - | 22.0 | 21.80 | 0.04 | 1.810 | 1.00 | 1.05 | 1.90 |
| | LTE 7 | QPSK20M | Bottom Side | 21350 | 1 | 0 | 2 | - | 22.0 | 21.55 | -0.17 | 1.740 | 1.00 | 1.11 | 1.93 |

| Plot No. | Band | Mode | Test Position | Ch. | Sample | Duty Cycle % | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Power Drift (dB) | Measured SAR-10g (W/kg) | Duty Cycle Scaling Factor | Tune-up Scaling Factor | Scaled SAR-10g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | WLAN5G | 802.11a | Right Side | 60 | 1 | 97.2 | 16.0 | 15.90 | -0.03 | 1.240 | 1.03 | 1.02 | **1.31** |
| | WLAN5G | 802.11a | Right Side | 60 | 2 | 97.2 | 16.0 | 15.90 | -0.02 | 1.040 | 1.03 | 1.02 | 1.12 |
| 65 | WLAN5G | 802.11a | Right Side | 144 | 1 | 97.2 | 17.0 | 16.38 | -0.06 | 1.060 | 1.03 | 1.15 | **1.26** |
| | WLAN5G | 802.11a | Right Side | 144 | 2 | 97.2 | 17.0 | 16.38 | -0.04 | 0.994 | 1.03 | 1.15 | 1.18 |

### 4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10, the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

| Band | Test Position | Ch. | Original Measured SAR-1g (W/kg) | 1st Repeated SAR-1g (W/kg) | L/S Ratio | 2nd Repeated SAR-1g (W/kg) | L/S Ratio | 3rd Repeated SAR-1g (W/kg) | L/S Ratio |
|---|---|---|---|---|---|---|---|---|---|
| WCDMA IV | Rear Face | 1312 | 1.080 | 1.020 | 1.06 | N/A | N/A | N/A | N/A |
| WCDMA II | Rear Face | 9400 | 0.923 | 0.901 | 1.02 | N/A | N/A | N/A | N/A |
| LTE 7 | Bottom Side | 21350 | 0.865 | 0.858 | 1.01 | N/A | N/A | N/A | N/A |
| WLAN5G | Left Cheek | 157 | 0.872 | 0.855 | 1.02 | N/A | N/A | N/A | N/A |

### 4.6.7 Simultaneous Multi-band Transmission Evaluation

**<SAR Summation Analysis>**

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of $SAR_{1g}$ of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit ($SAR_{1g}$ 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of $SAR_{1g}$ is greater than the SAR limit ($SAR_{1g}$ 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

**<Head>**

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| GSM850 | Right Cheek | 0.45 | 0.13 | 0.62 | 0.02 | **0.58** | **1.09** |
| | Right Tilted | 0.24 | 0.08 | 0.58 | 0.02 | **0.31** | **0.84** |
| | Left Cheek | 0.34 | 0.34 | 1.01 | 0.12 | **0.68** | **1.47** |
| | Left Tilted | 0.22 | 0.15 | 0.74 | 0.03 | **0.38** | **0.99** |
| GSM1900 | Right Cheek | 0.11 | 0.13 | 0.62 | 0.02 | **0.23** | **0.75** |
| | Right Tilted | 0.07 | 0.08 | 0.58 | 0.02 | **0.15** | **0.67** |
| | Left Cheek | 0.13 | 0.34 | 1.01 | 0.12 | **0.47** | **1.26** |
| | Left Tilted | 0.11 | 0.15 | 0.74 | 0.03 | **0.27** | **0.88** |
| WCDMA II | Right Cheek | 0.12 | 0.13 | 0.62 | 0.02 | **0.25** | **0.77** |
| | Right Tilted | 0.05 | 0.08 | 0.58 | 0.02 | **0.12** | **0.65** |
| | Left Cheek | 0.09 | 0.34 | 1.01 | 0.12 | **0.43** | **1.22** |
| | Left Tilted | 0.07 | 0.15 | 0.74 | 0.03 | **0.22** | **0.84** |
| WCDMA IV | Right Cheek | 0.19 | 0.13 | 0.62 | 0.02 | **0.31** | **0.83** |
| | Right Tilted | 0.10 | 0.08 | 0.58 | 0.02 | **0.17** | **0.70** |
| | Left Cheek | 0.12 | 0.34 | 1.01 | 0.12 | **0.46** | **1.25** |
| | Left Tilted | 0.09 | 0.15 | 0.74 | 0.03 | **0.24** | **0.86** |
| WCDMA V | Right Cheek | 0.37 | 0.13 | 0.62 | 0.02 | **0.49** | **1.01** |
| | Right Tilted | 0.31 | 0.08 | 0.58 | 0.02 | **0.39** | **0.91** |
| | Left Cheek | 0.42 | 0.34 | 1.01 | 0.12 | **0.76** | **1.55** |
| | Left Tilted | 0.31 | 0.15 | 0.74 | 0.03 | **0.46** | **1.08** |
| LTE Band 5 | Right Cheek | 0.32 | 0.13 | 0.62 | 0.02 | **0.44** | **0.96** |
| | Right Tilted | 0.34 | 0.08 | 0.58 | 0.02 | **0.42** | **0.94** |
| | Left Cheek | 0.40 | 0.34 | 1.01 | 0.12 | **0.74** | **1.53** |
| | Left Tilted | 0.29 | 0.15 | 0.74 | 0.03 | **0.45** | **1.06** |
| LTE Band 7 | Right Cheek | 0.10 | 0.13 | 0.62 | 0.02 | **0.22** | **0.74** |
| | Right Tilted | 0.04 | 0.08 | 0.58 | 0.02 | **0.11** | **0.64** |
| | Left Cheek | 0.21 | 0.34 | 1.01 | 0.12 | **0.55** | **1.34** |
| | Left Tilted | 0.06 | 0.15 | 0.74 | 0.03 | **0.21** | **0.83** |
| LTE Band 12 | Right Cheek | 0.24 | 0.13 | 0.62 | 0.02 | **0.36** | **0.88** |
| | Right Tilted | 0.18 | 0.08 | 0.58 | 0.02 | **0.25** | **0.78** |

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| | Left Cheek | 0.27 | 0.34 | 1.01 | 0.12 | **0.61** | **1.40** |
| | Left Tilted | 0.22 | 0.15 | 0.74 | 0.03 | **0.37** | **0.99** |
| LTE Band 13 | Right Cheek | 0.33 | 0.13 | 0.62 | 0.02 | **0.46** | **0.98** |
| | Right Tilted | 0.27 | 0.08 | 0.58 | 0.02 | **0.35** | **0.87** |
| | Left Cheek | 0.36 | 0.34 | 1.01 | 0.12 | **0.70** | **1.49** |
| | Left Tilted | 0.25 | 0.15 | 0.74 | 0.03 | **0.41** | **1.02** |
| LTE Band 14 | Right Cheek | 0.29 | 0.13 | 0.62 | 0.02 | **0.41** | **0.93** |
| | Right Tilted | 0.23 | 0.08 | 0.58 | 0.02 | **0.31** | **0.83** |
| | Left Cheek | 0.33 | 0.34 | 1.01 | 0.12 | **0.67** | **1.46** |
| | Left Tilted | 0.21 | 0.15 | 0.74 | 0.03 | **0.37** | **0.98** |
| LTE Band 25 | Right Cheek | 0.13 | 0.13 | 0.62 | 0.02 | **0.25** | **0.77** |
| | Right Tilted | 0.04 | 0.08 | 0.58 | 0.02 | **0.12** | **0.64** |
| | Left Cheek | 0.10 | 0.34 | 1.01 | 0.12 | **0.44** | **1.23** |
| | Left Tilted | 0.07 | 0.15 | 0.74 | 0.03 | **0.23** | **0.84** |
| LTE Band 26 | Right Cheek | 0.42 | 0.13 | 0.62 | 0.02 | **0.54** | **1.06** |
| | Right Tilted | 0.28 | 0.08 | 0.58 | 0.02 | **0.35** | **0.88** |
| | Left Cheek | 0.25 | 0.34 | 1.01 | 0.12 | **0.58** | **1.38** |
| | Left Tilted | 0.23 | 0.15 | 0.74 | 0.03 | **0.38** | **1.00** |
| LTE Band 30 | Right Cheek | 0.17 | 0.13 | 0.62 | 0.02 | **0.29** | **0.81** |
| | Right Tilted | 0.06 | 0.08 | 0.58 | 0.02 | **0.14** | **0.66** |
| | Left Cheek | 0.26 | 0.34 | 1.01 | 0.12 | **0.60** | **1.39** |
| | Left Tilted | 0.08 | 0.15 | 0.74 | 0.03 | **0.24** | **0.85** |
| LTE Band 41 | Right Cheek | 0.06 | 0.13 | 0.62 | 0.02 | **0.19** | **0.71** |
| | Right Tilted | 0.04 | 0.08 | 0.58 | 0.02 | **0.12** | **0.64** |
| | Left Cheek | 0.11 | 0.34 | 1.01 | 0.12 | **0.45** | **1.24** |
| | Left Tilted | 0.05 | 0.15 | 0.74 | 0.03 | **0.20** | **0.82** |
| LTE Band 66 | Right Cheek | 0.17 | 0.13 | 0.62 | 0.02 | **0.29** | **0.81** |
| | Right Tilted | 0.08 | 0.08 | 0.58 | 0.02 | **0.16** | **0.68** |
| | Left Cheek | 0.12 | 0.34 | 1.01 | 0.12 | **0.46** | **1.25** |
| | Left Tilted | 0.09 | 0.15 | 0.74 | 0.03 | **0.24** | **0.86** |
| LTE Band 71 | Right Cheek | 0.33 | 0.13 | 0.62 | 0.02 | **0.45** | **0.97** |
| | Right Tilted | 0.20 | 0.08 | 0.58 | 0.02 | **0.27** | **0.80** |
| | Left Cheek | 0.31 | 0.34 | 1.01 | 0.12 | **0.65** | **1.44** |
| | Left Tilted | 0.18 | 0.15 | 0.74 | 0.03 | **0.34** | **0.95** |

**<Body Worn>**

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| GSM850 | Front | 0.20 | 0.07 | 0.36 | 0.02 | **0.27** | **0.59** |
| | Back | 0.54 | 0.07 | 0.79 | 0.02 | **0.61** | **1.35** |
| GSM1900 | Front | 0.68 | 0.07 | 0.36 | 0.02 | **0.75** | **1.06** |
| | Back | 0.72 | 0.07 | 0.79 | 0.02 | **0.80** | **1.53** |
| WCDMA II | Front | 0.62 | 0.07 | 0.36 | 0.02 | **0.69** | **1.01** |
| | Back | 1.01 | 0.07 | 0.79 | 0.02 | **1.08** | **1.82** |
| WCDMA IV | Front | 0.46 | 0.07 | 0.36 | 0.02 | **0.53** | **0.85** |
| | Back | 1.10 | 0.07 | 0.79 | 0.02 | **1.18** | **1.91** |
| WCDMA V | Front | 0.35 | 0.07 | 0.36 | 0.02 | **0.42** | **0.74** |
| | Back | 0.47 | 0.07 | 0.79 | 0.02 | **0.55** | **1.28** |
| LTE Band 5 | Front | 0.33 | 0.07 | 0.36 | 0.02 | **0.39** | **0.71** |
| | Back | 0.45 | 0.07 | 0.79 | 0.02 | **0.52** | **1.26** |
| LTE Band 7 | Front | 0.97 | 0.07 | 0.36 | 0.02 | **1.04** | **1.36** |
| | Back | 0.97 | 0.07 | 0.79 | 0.02 | **1.05** | **1.78** |
| LTE Band 12 | Front | 0.28 | 0.07 | 0.36 | 0.02 | **0.35** | **0.67** |
| | Back | 0.35 | 0.07 | 0.79 | 0.02 | **0.42** | **1.16** |
| LTE Band 13 | Front | 0.25 | 0.07 | 0.36 | 0.02 | **0.32** | **0.63** |
| | Back | 0.53 | 0.07 | 0.79 | 0.02 | **0.61** | **1.34** |
| LTE Band 14 | Front | 0.26 | 0.07 | 0.36 | 0.02 | **0.32** | **0.64** |
| | Back | 0.42 | 0.07 | 0.79 | 0.02 | **0.50** | **1.23** |
| LTE Band 25 | Front | 0.64 | 0.07 | 0.36 | 0.02 | **0.70** | **1.02** |
| | Back | 0.91 | 0.07 | 0.79 | 0.02 | **0.99** | **1.72** |
| LTE Band 26 | Front | 0.30 | 0.07 | 0.36 | 0.02 | **0.37** | **0.68** |
| | Back | 0.48 | 0.07 | 0.79 | 0.02 | **0.55** | **1.29** |
| LTE Band 30 | Front | 0.82 | 0.07 | 0.36 | 0.02 | **0.88** | **1.20** |
| | Back | 0.91 | 0.07 | 0.79 | 0.02 | **0.99** | **1.72** |
| LTE Band 41 | Front | 0.57 | 0.07 | 0.36 | 0.02 | **0.63** | **0.95** |
| | Back | 0.67 | 0.07 | 0.79 | 0.02 | **0.74** | **1.48** |
| LTE Band 66 | Front | 0.43 | 0.07 | 0.36 | 0.02 | **0.49** | **0.81** |
| | Back | 1.17 | 0.07 | 0.79 | 0.02 | **1.24** | **1.98** |
| LTE Band 71 | Front | 0.29 | 0.07 | 0.36 | 0.02 | **0.36** | **0.67** |
| | Back | 0.48 | 0.07 | 0.79 | 0.02 | **0.55** | **1.29** |

**<Hotspot>**

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| GSM850 | Front | 0.20 | 0.07 | 0.31 | 0.02 | **0.27** | **0.53** |
| | Back | 0.54 | 0.07 | 0.79 | 0.02 | **0.61** | **1.35** |
| | Left side | 0.16 | | | | **0.16** | **0.16** |
| | Right side | 0.30 | 0.08 | 0.60 | 0.03 | **0.37** | **0.93** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.26 | | | | **0.26** | **0.26** |
| GSM1900 | Front | 0.68 | 0.07 | 0.31 | 0.02 | **0.75** | **1.01** |
| | Back | 0.72 | 0.07 | 0.79 | 0.02 | **0.80** | **1.53** |
| | Left side | 0.09 | | | | **0.09** | **0.09** |
| | Right side | 0.16 | 0.08 | 0.60 | 0.03 | **0.24** | **0.79** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.71 | | | | **0.71** | **0.71** |
| WCDMA II | Front | 0.62 | 0.07 | 0.31 | 0.02 | **0.69** | **0.95** |
| | Back | 1.01 | 0.07 | 0.79 | 0.02 | **1.08** | **1.82** |
| | Left side | 0.07 | | | | **0.07** | **0.07** |
| | Right side | 0.12 | 0.08 | 0.60 | 0.03 | **0.20** | **0.75** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.72 | | | | **0.72** | **0.72** |
| WCDMA IV | Front | 0.46 | 0.07 | 0.31 | 0.02 | **0.53** | **0.79** |
| | Back | 1.10 | 0.07 | 0.79 | 0.02 | **1.18** | **1.91** |
| | Left side | 0.06 | | | | **0.06** | **0.06** |
| | Right side | 0.12 | 0.08 | 0.60 | 0.03 | **0.20** | **0.76** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.64 | | | | **0.64** | **0.64** |
| WCDMA V | Front | 0.35 | 0.07 | 0.31 | 0.02 | **0.42** | **0.68** |
| | Back | 0.47 | 0.07 | 0.79 | 0.02 | **0.55** | **1.28** |
| | Left side | 0.22 | | | | **0.22** | **0.22** |
| | Right side | 0.34 | 0.08 | 0.60 | 0.03 | **0.42** | **0.98** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.37 | | | | **0.37** | **0.37** |
| LTE Band 5 | Front | 0.33 | 0.07 | 0.31 | 0.02 | **0.39** | **0.65** |
| | Back | 0.45 | 0.07 | 0.79 | 0.02 | **0.52** | **1.26** |
| | Left side | 0.20 | | | | **0.20** | **0.20** |
| | Right side | 0.35 | 0.08 | 0.60 | 0.03 | **0.42** | **0.98** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.33 | | | | **0.33** | **0.33** |
| LTE Band 7 | Front | 0.97 | 0.07 | 0.31 | 0.02 | **1.04** | **1.30** |
| | Back | 0.97 | 0.07 | 0.79 | 0.02 | **1.05** | **1.78** |

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| | Left side | 0.25 | | | | **0.25** | **0.25** |
| | Right side | 0.17 | 0.08 | 0.60 | 0.03 | **0.25** | **0.80** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.95 | | | | **0.95** | **0.95** |
| LTE Band 12 | Front | 0.28 | 0.07 | 0.31 | 0.02 | **0.35** | **0.61** |
| | Back | 0.35 | 0.07 | 0.79 | 0.02 | **0.42** | **1.16** |
| | Left side | 0.28 | | | | **0.28** | **0.28** |
| | Right side | 0.43 | 0.08 | 0.60 | 0.03 | **0.51** | **1.07** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.14 | | | | **0.14** | **0.14** |
| LTE Band 13 | Front | 0.25 | 0.07 | 0.31 | 0.02 | **0.32** | **0.58** |
| | Back | 0.53 | 0.07 | 0.79 | 0.02 | **0.61** | **1.34** |
| | Left side | 0.15 | | | | **0.15** | **0.15** |
| | Right side | 0.32 | 0.08 | 0.60 | 0.03 | **0.40** | **0.95** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.27 | | | | **0.27** | **0.27** |
| LTE Band 14 | Front | 0.26 | 0.07 | 0.31 | 0.02 | **0.32** | **0.58** |
| | Back | 0.42 | 0.07 | 0.79 | 0.02 | **0.50** | **1.23** |
| | Left side | 0.14 | | | | **0.14** | **0.14** |
| | Right side | 0.29 | 0.08 | 0.60 | 0.03 | **0.37** | **0.92** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.20 | | | | **0.20** | **0.20** |
| LTE Band 25 | Front | 0.64 | 0.07 | 0.31 | 0.02 | **0.70** | **0.96** |
| | Back | 0.91 | 0.07 | 0.79 | 0.02 | **0.99** | **1.72** |
| | Left side | 0.07 | | | | **0.07** | **0.07** |
| | Right side | 0.12 | 0.08 | 0.60 | 0.03 | **0.20** | **0.76** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.77 | | | | **0.77** | **0.77** |
| LTE Band 26 | Front | 0.30 | 0.07 | 0.31 | 0.02 | **0.37** | **0.63** |
| | Back | 0.48 | 0.07 | 0.79 | 0.02 | **0.55** | **1.29** |
| | Left side | 0.29 | | | | **0.29** | **0.29** |
| | Right side | 0.40 | 0.08 | 0.60 | 0.03 | **0.48** | **1.03** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.31 | | | | **0.31** | **0.31** |
| LTE Band 30 | Front | 0.82 | 0.07 | 0.31 | 0.02 | **0.88** | **1.15** |
| | Back | 0.91 | 0.07 | 0.79 | 0.02 | **0.99** | **1.72** |
| | Left side | 0.21 | | | | **0.21** | **0.21** |
| | Right side | 0.12 | 0.08 | 0.60 | 0.03 | **0.20** | **0.76** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN | 5GHz WLAN | Bluetooth | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| | Bottom side | 0.77 | | | | **0.77** | **0.77** |
| LTE Band 41 | Front | 0.57 | 0.07 | 0.31 | 0.02 | **0.63** | **0.89** |
| | Back | 0.67 | 0.07 | 0.79 | 0.02 | **0.74** | **1.48** |
| | Left side | 0.17 | | | | **0.17** | **0.17** |
| | Right side | 0.09 | 0.08 | 0.60 | 0.03 | **0.17** | **0.72** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.61 | | | | **0.61** | **0.61** |
| LTE Band 66 | Front | 0.43 | 0.07 | 0.31 | 0.02 | **0.49** | **0.75** |
| | Back | 1.17 | 0.07 | 0.79 | 0.02 | **1.24** | **1.98** |
| | Left side | 0.19 | | | | **0.19** | **0.19** |
| | Right side | 0.09 | 0.08 | 0.60 | 0.03 | **0.17** | **0.72** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.61 | | | | **0.61** | **0.61** |
| LTE Band 71 | Front | 0.29 | 0.07 | 0.31 | 0.02 | **0.36** | **0.62** |
| | Back | 0.48 | 0.07 | 0.79 | 0.02 | **0.55** | **1.29** |
| | Left side | 0.13 | | | | **0.13** | **0.13** |
| | Right side | 0.29 | 0.08 | 0.60 | 0.03 | **0.37** | **0.92** |
| | Top side | | 0.04 | 0.15 | 0.01 | **0.04** | **0.16** |
| | Bottom side | 0.16 | | | | **0.16** | **0.16** |

**<Extremity>**

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3+4 Summed 1g SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| | | WWAN | 2.4GHz WLAN Ant 1 | 5GHz WLAN Ant 1 | Bluetooth Ant 1 | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | |
| LTE Band 7 | Front Face | | | 0.54 | | **0.00** | **0.54** |
| | Rear Face | | | 1.03 | | **0.00** | **1.03** |
| | Right Side | | | 1.31 | | **0.00** | **1.31** |
| | Top Side | | | 0.23 | | **0.00** | **0.23** |
| | Bottom Side | 2.00 | | | | **2.00** | **2.00** |

**Note:** Except for verified data, all of the data use for the Simultaneous Transmission analysis on this report was copied from the original report (W7L-P21080009SA02, FCC ID: HD5-CT45PL1NE).

**<SAR to Peak Location Separation Ratio Analysis>**

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where ($x_1$, $y_1$, $z_1$) and ($x_2$, $y_2$, $z_2$) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

The SPLSR is determined by the following formula.

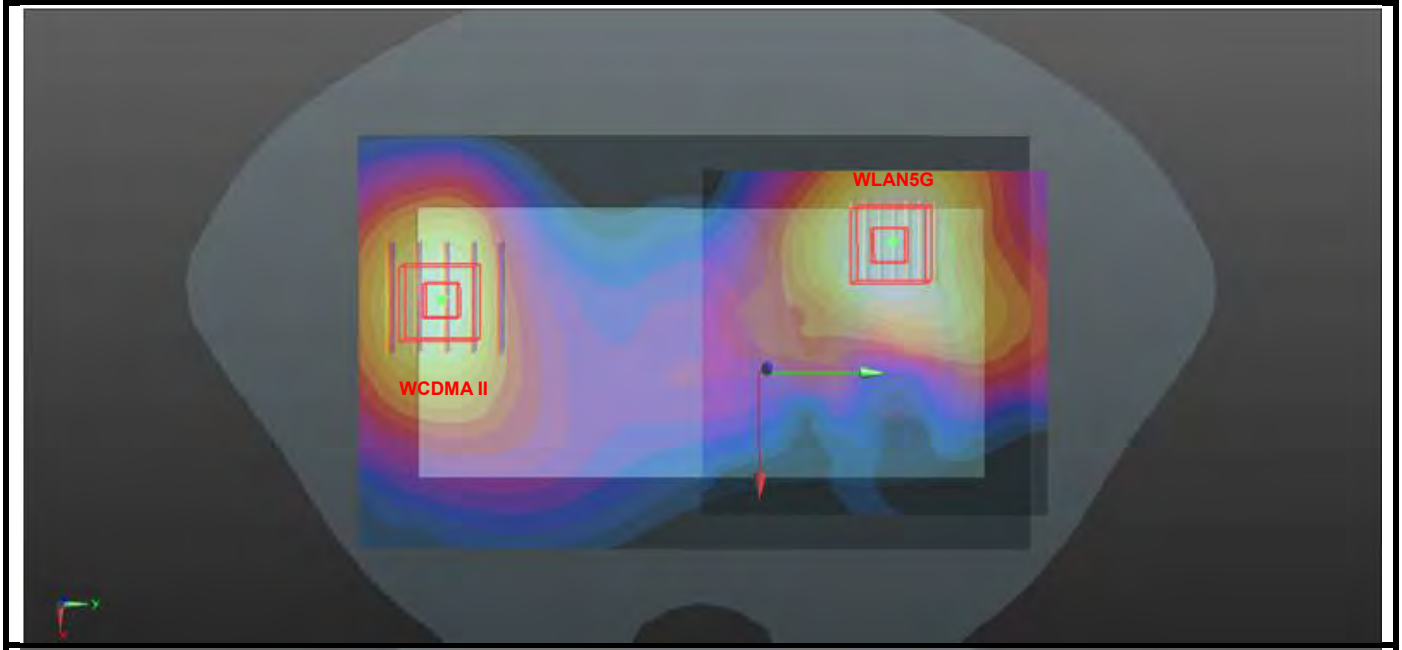
$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

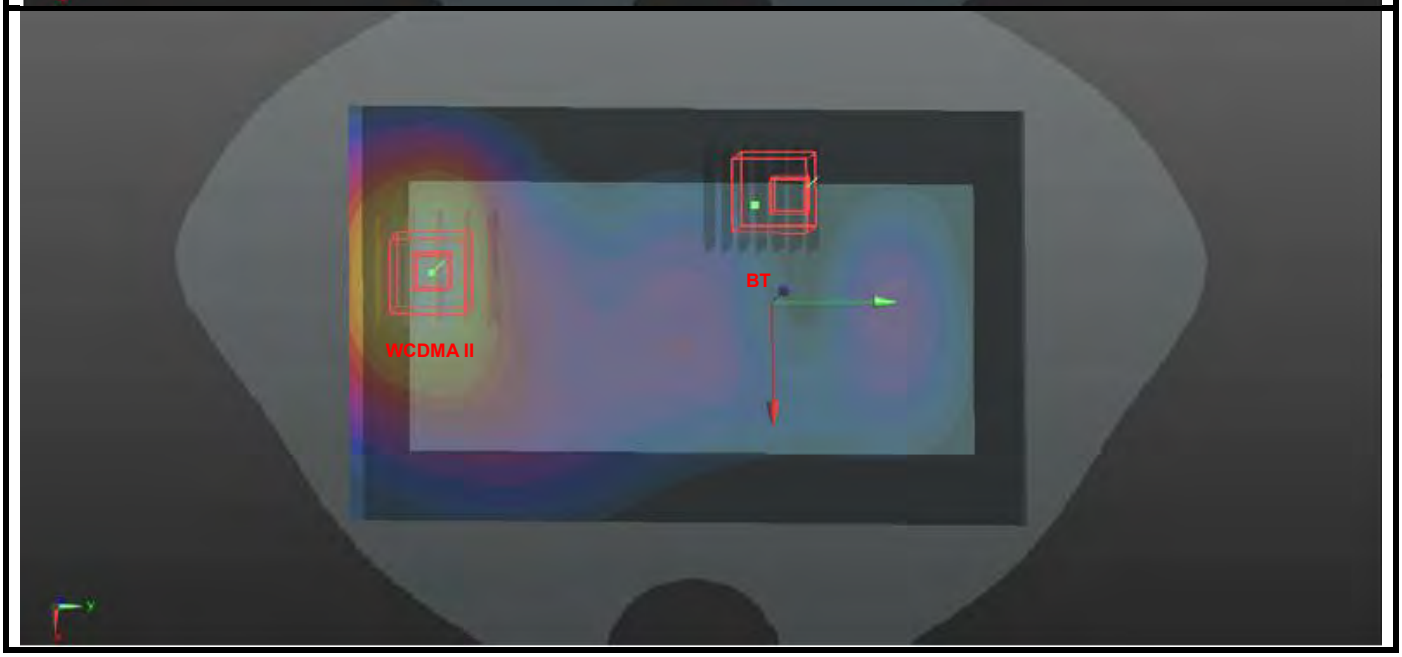
Where $SAR_1$ and $SAR_2$ are the highest reported or estimated SAR for each antenna in the pair, and $R_i$ is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is <= 0.04, the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

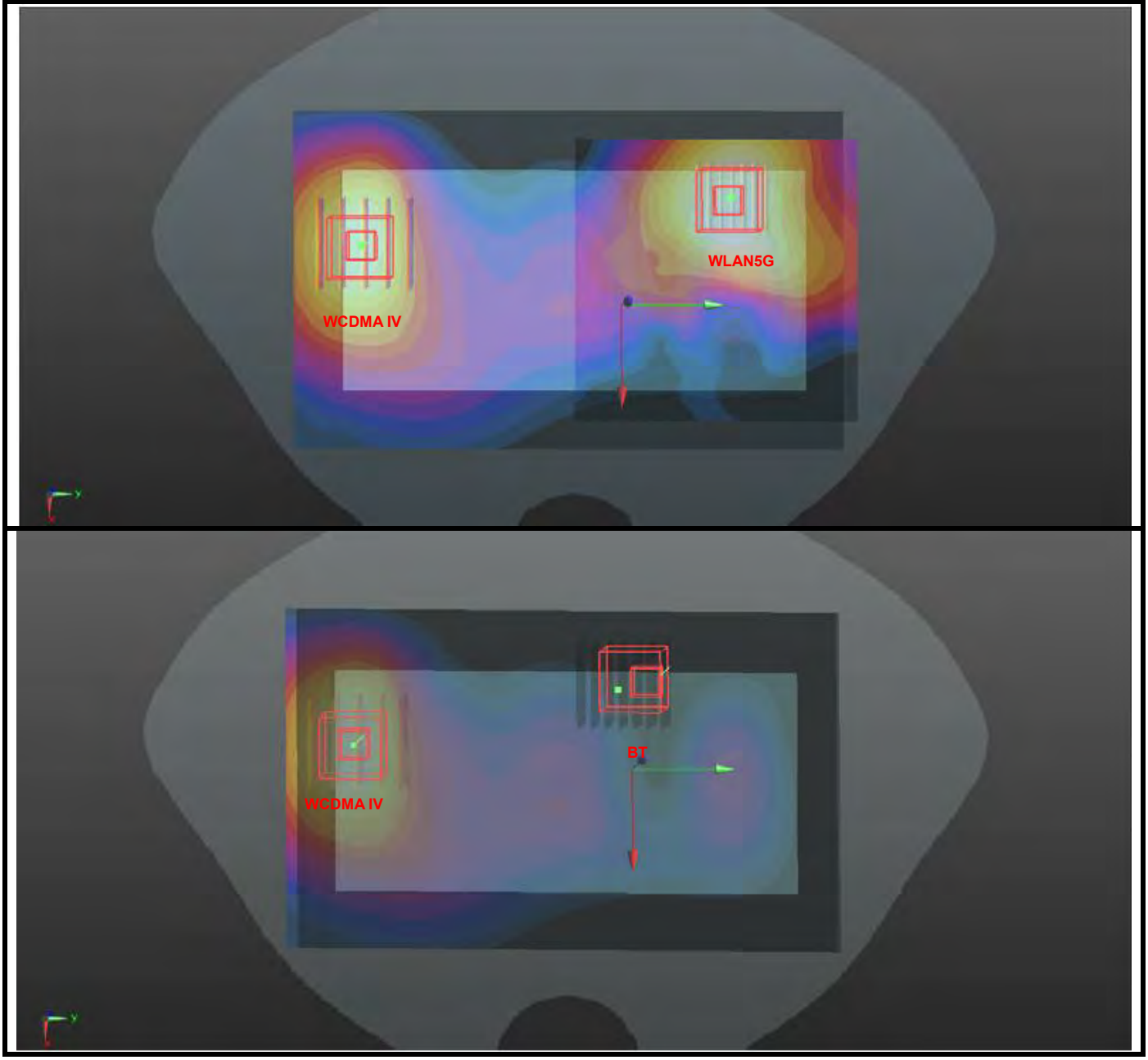
**<Body worn>**

| Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (m) X | SAR peak location (m) Y | SAR peak location (m) Z | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| WCDMA II | Rear Face | 1.01 | 10 | -0.029 | -0.076 | -0.203 | 132.2 | 1.80 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| WCDMA II | Rear Face | 1.01 | 10 | -0.029 | -0.076 | -0.203 | 111.9 | 1.03 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

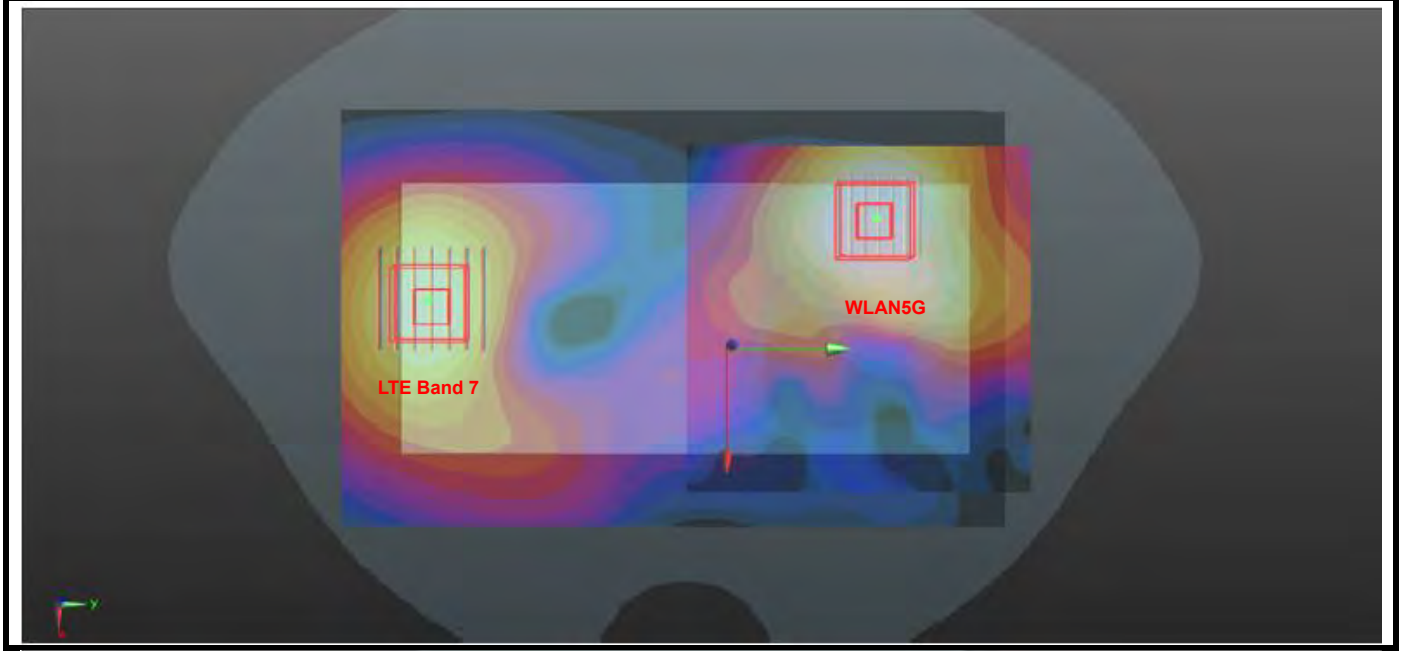


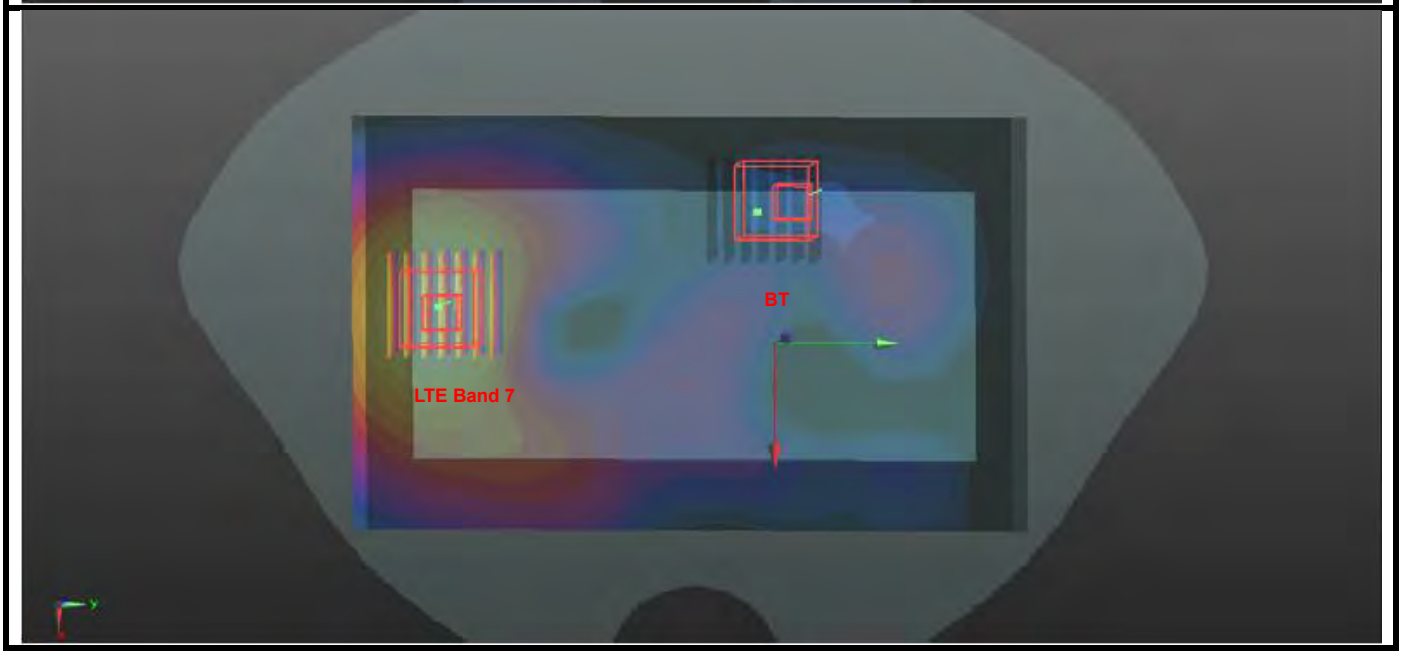



| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| WCDMA IV | Rear Face | 1.10 | 10 | -0.0305 | -0.0745 | -0.203 | 130.5 | 1.89 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| WCDMA IV | Rear Face | 1.10 | 10 | -0.0305 | -0.0745 | -0.203 | 110.1 | 1.12 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

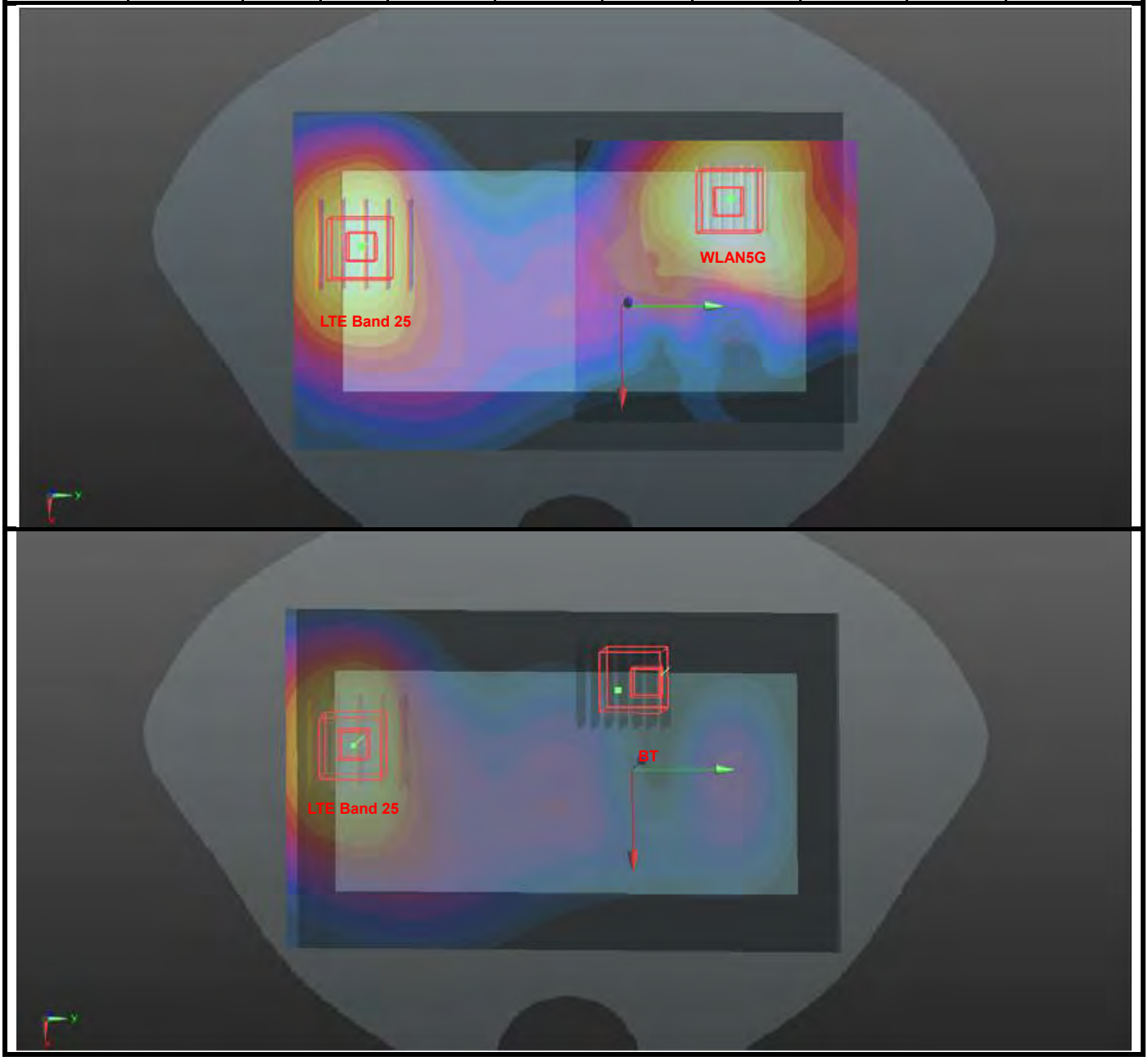


| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| LTE Band 7 | Rear Face | 0.97 | 10 | -0.0218 | -0.0748 | -0.203 | 132.1 | 1.76 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 7 | Rear Face | 0.97 | 10 | -0.0218 | -0.0748 | -0.203 | 112.6 | 0.99 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

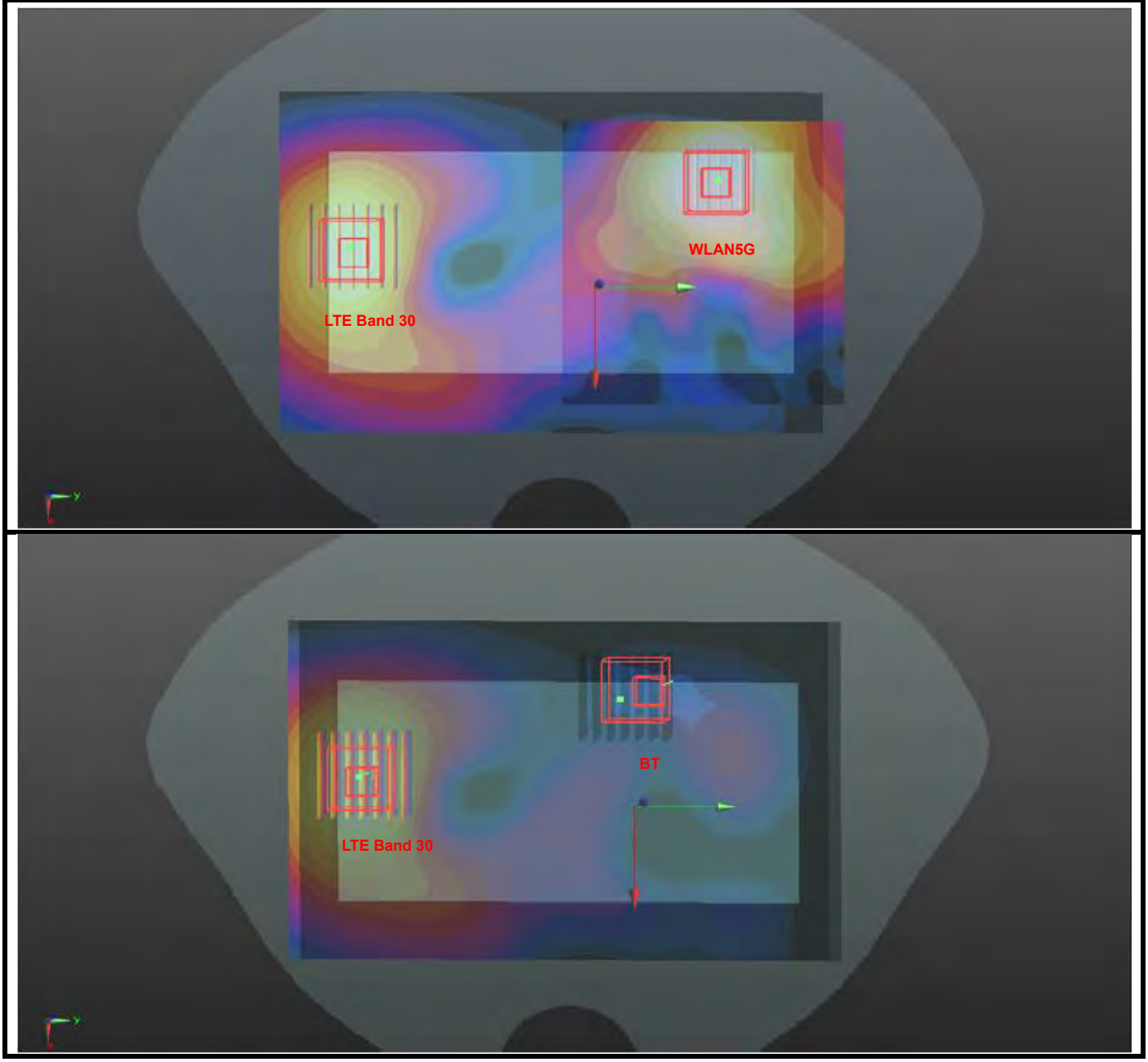


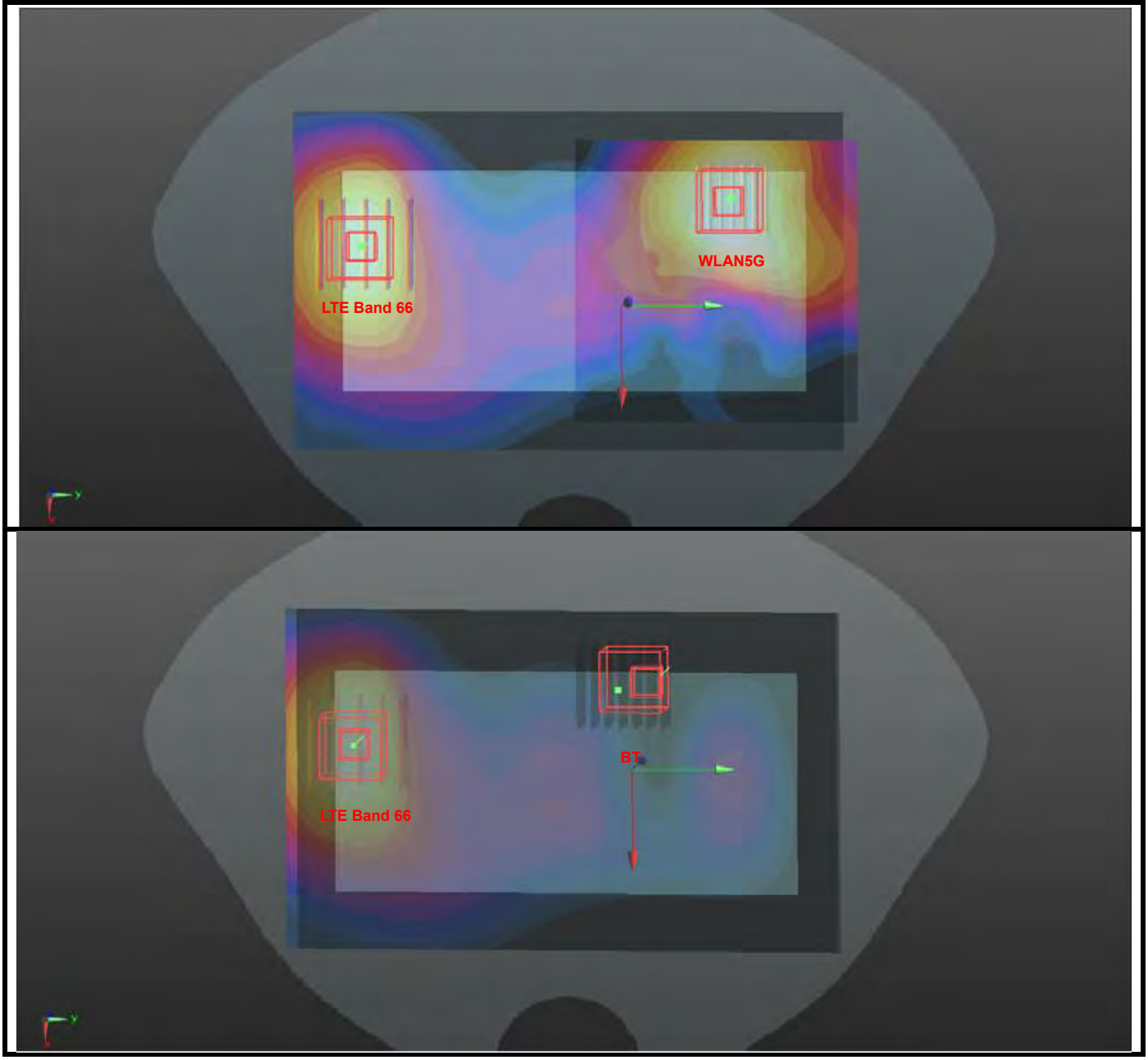
| Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | X | Y | Z | | | | |
| LTE Band 25 | Rear Face | 0.91 | 10 | -0.0316 | -0.066 | -0.207 | 121.9 | 1.70 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 25 | Rear Face | 0.91 | 10 | -0.0316 | -0.066 | -0.207 | 101.7 | 0.93 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |



| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| LTE Band 30 | Rear Face | 0.91 | 10 | -0.0266 | -0.066 | -0.207 | 122.5 | 1.70 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 30 | Rear Face | 0.91 | 10 | -0.0266 | -0.066 | -0.207 | 102.9 | 0.93 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

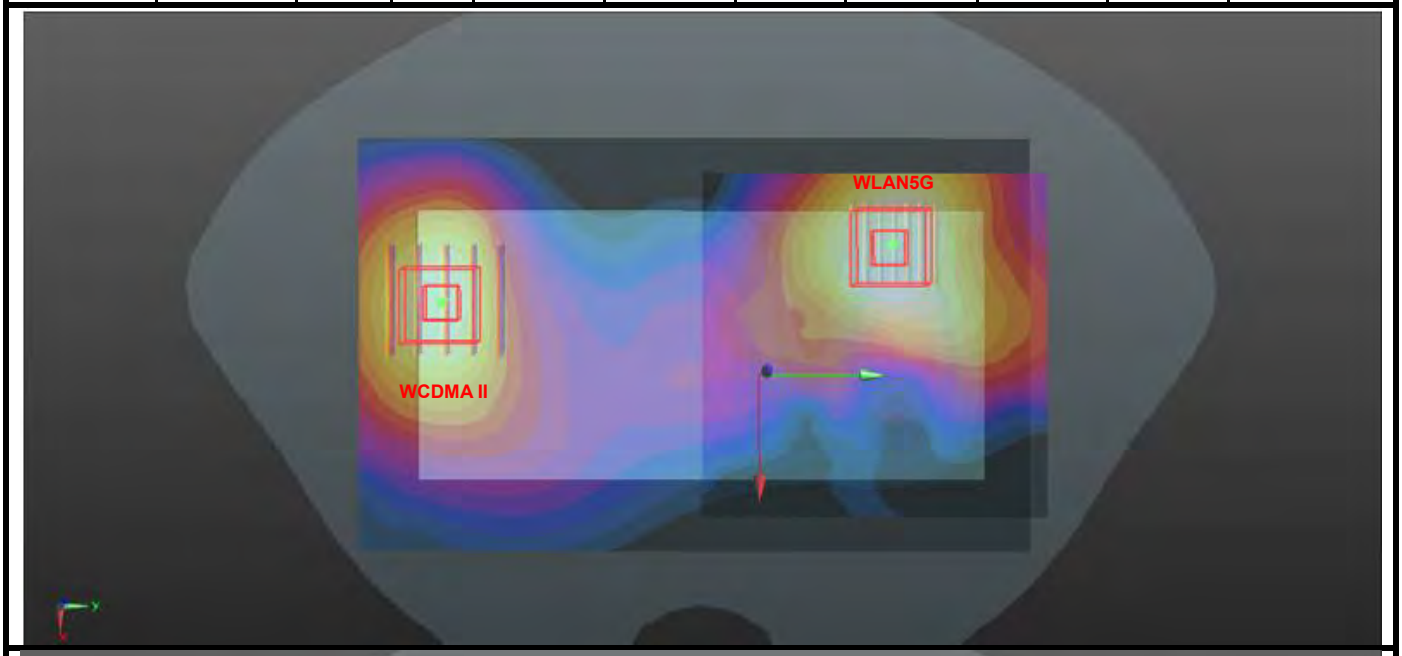


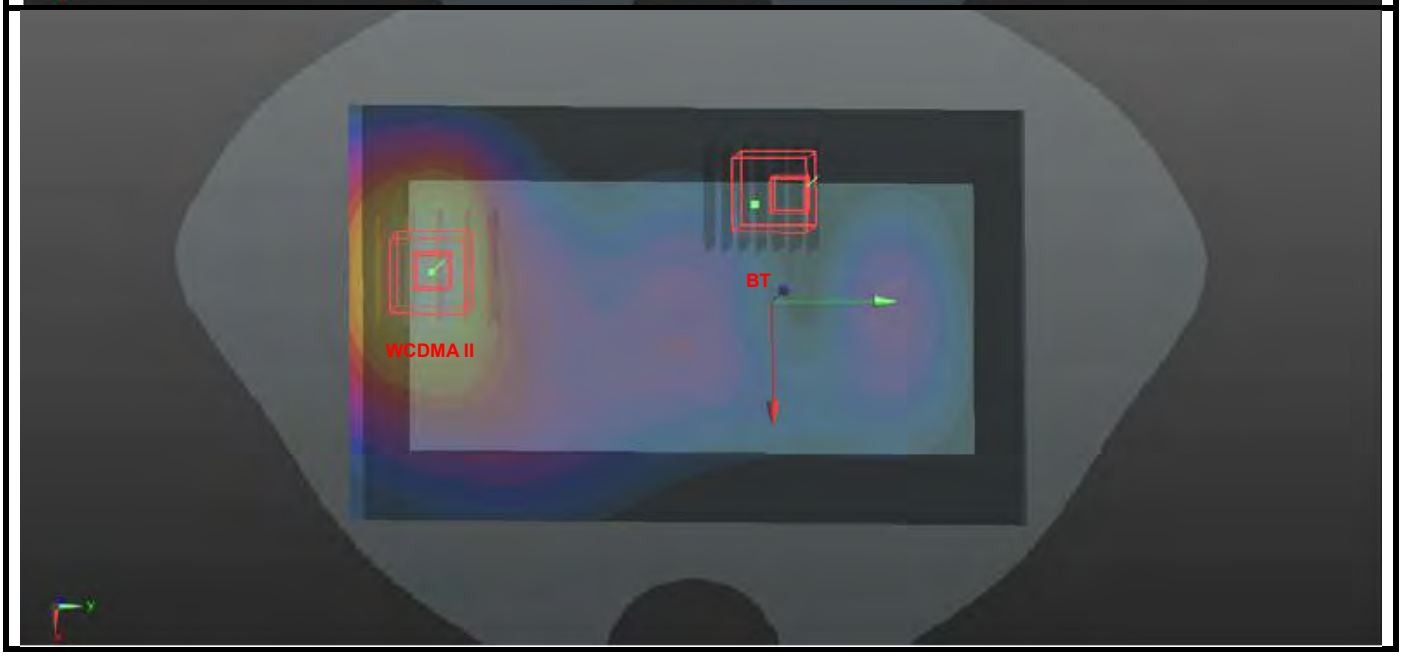
| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| LTE Band 66 | Rear Face | 1.17 | 10 | -0.0215 | -0.073 | -0.203 | 130.4 | 1.96 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 66 | Rear Face | 1.17 | 10 | -0.0215 | -0.073 | -0.203 | 111.0 | 1.19 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |



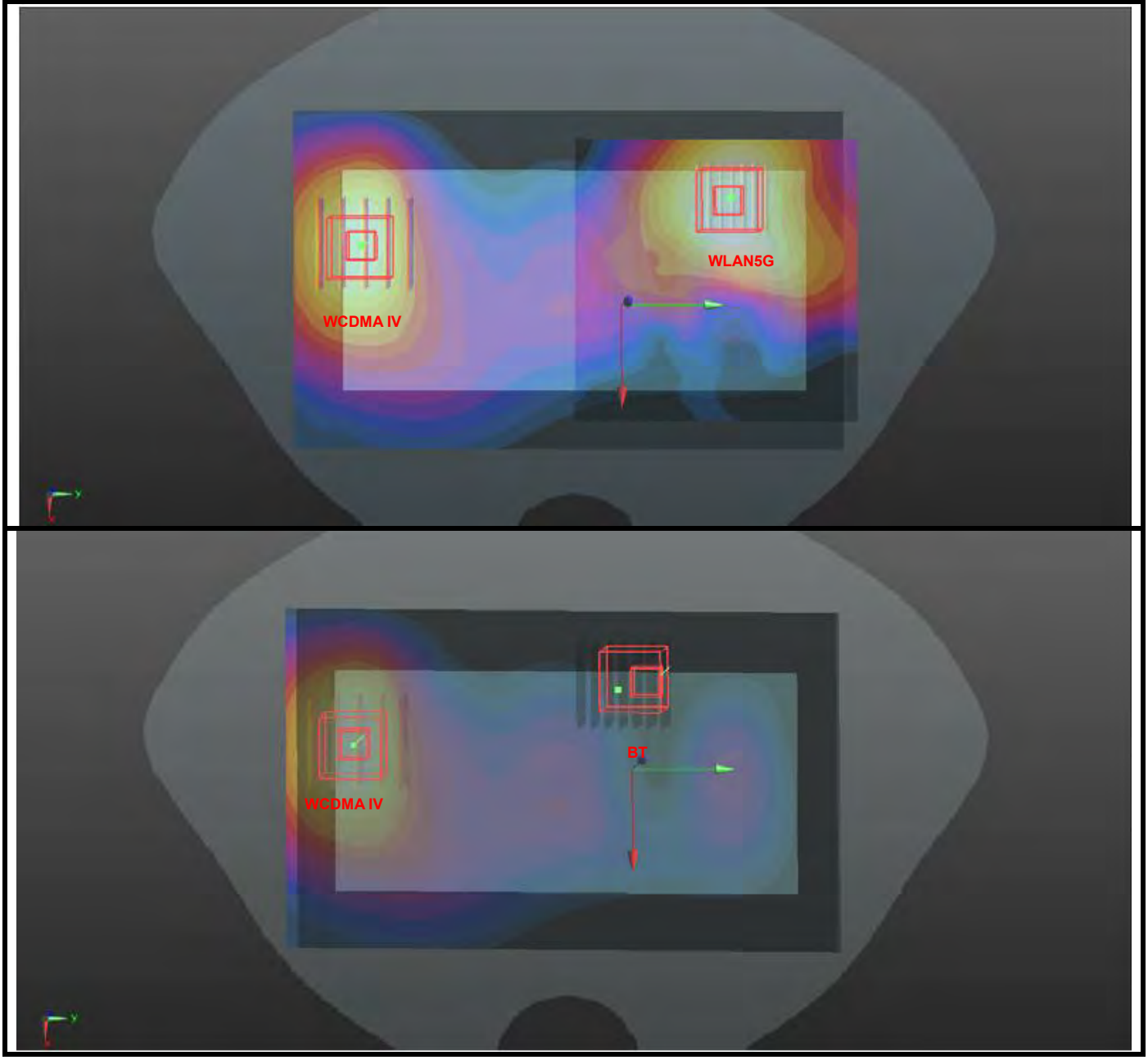
**<Hotspot>**

| Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | X | Y | Z | | | | |
| WCDMA II | Rear Face | 1.01 | 10 | -0.029 | -0.076 | -0.203 | 132.2 | 1.80 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| WCDMA II | Rear Face | 1.01 | 10 | -0.029 | -0.076 | -0.203 | 111.9 | 1.03 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

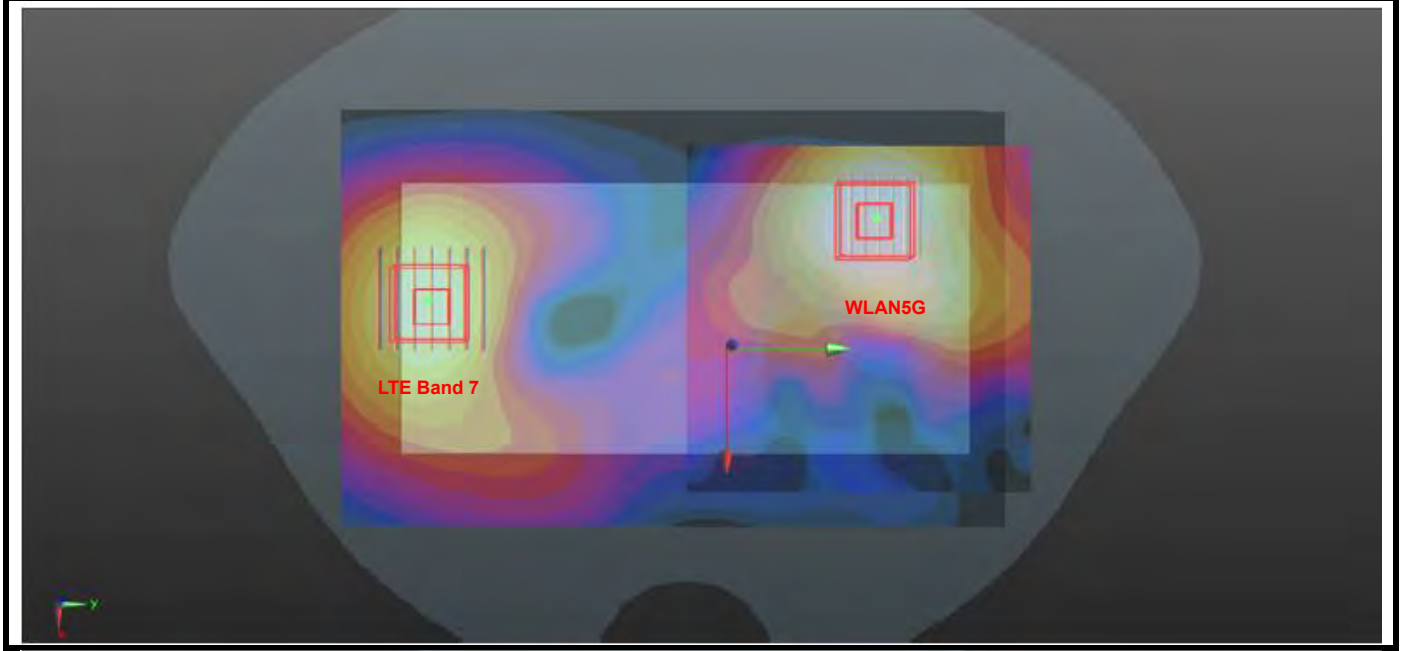


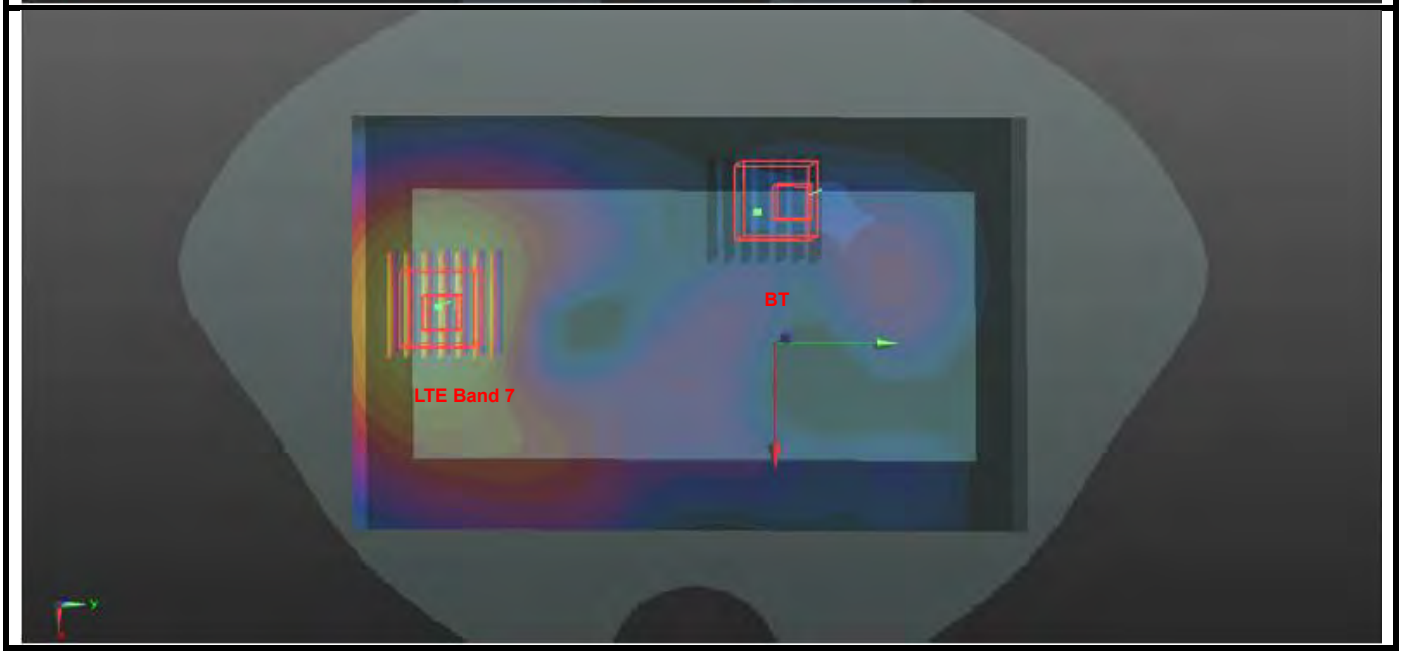



| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| WCDMA IV | Rear Face | 1.10 | 10 | -0.0305 | -0.0745 | -0.203 | 130.5 | 1.89 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| WCDMA IV | Rear Face | 1.10 | 10 | -0.0305 | -0.0745 | -0.203 | 110.1 | 1.12 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

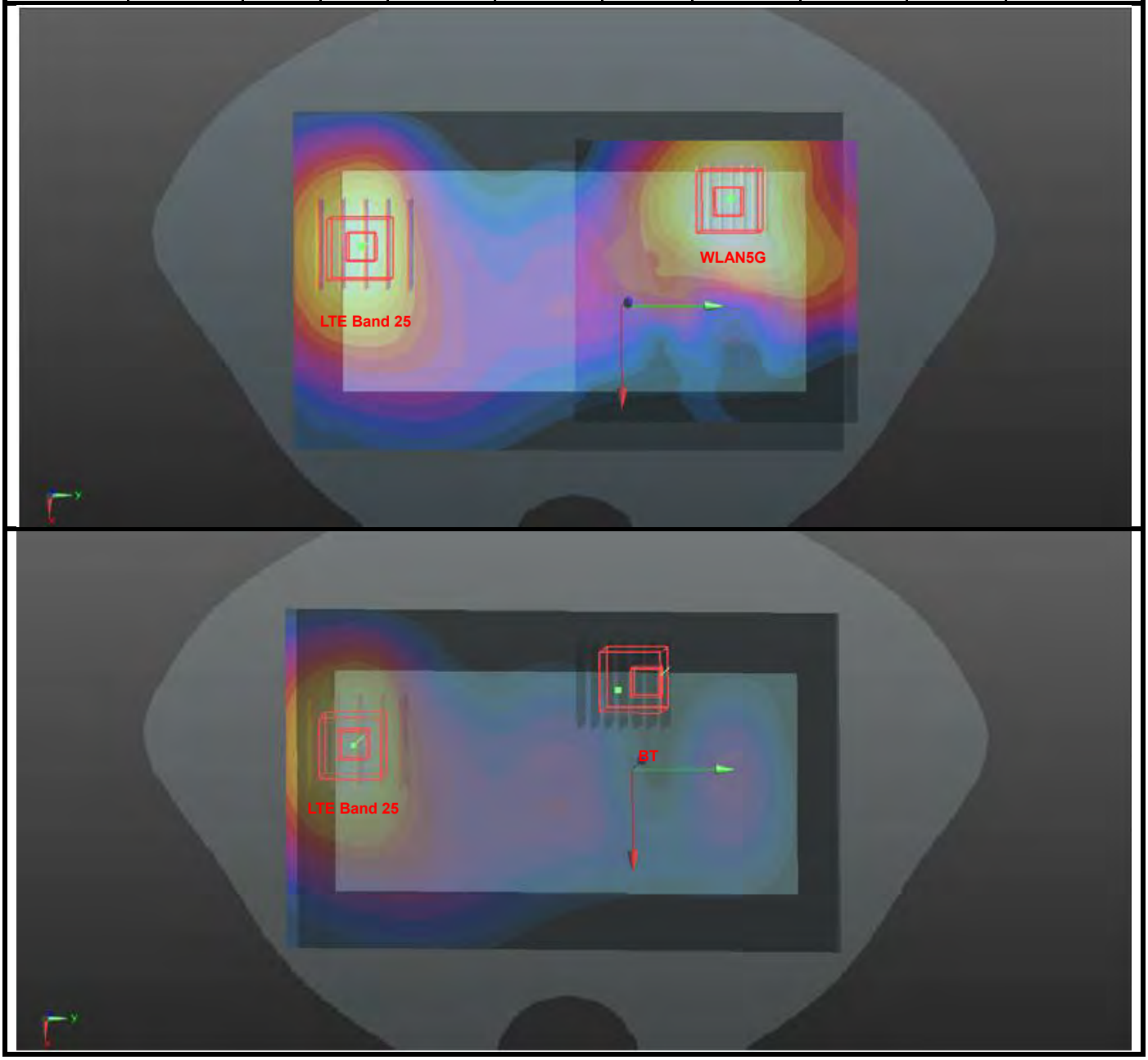


| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| LTE Band 7 | Rear Face | 0.97 | 10 | -0.0218 | -0.0748 | -0.203 | 132.1 | 1.76 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 7 | Rear Face | 0.97 | 10 | -0.0218 | -0.0748 | -0.203 | 112.6 | 0.99 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |

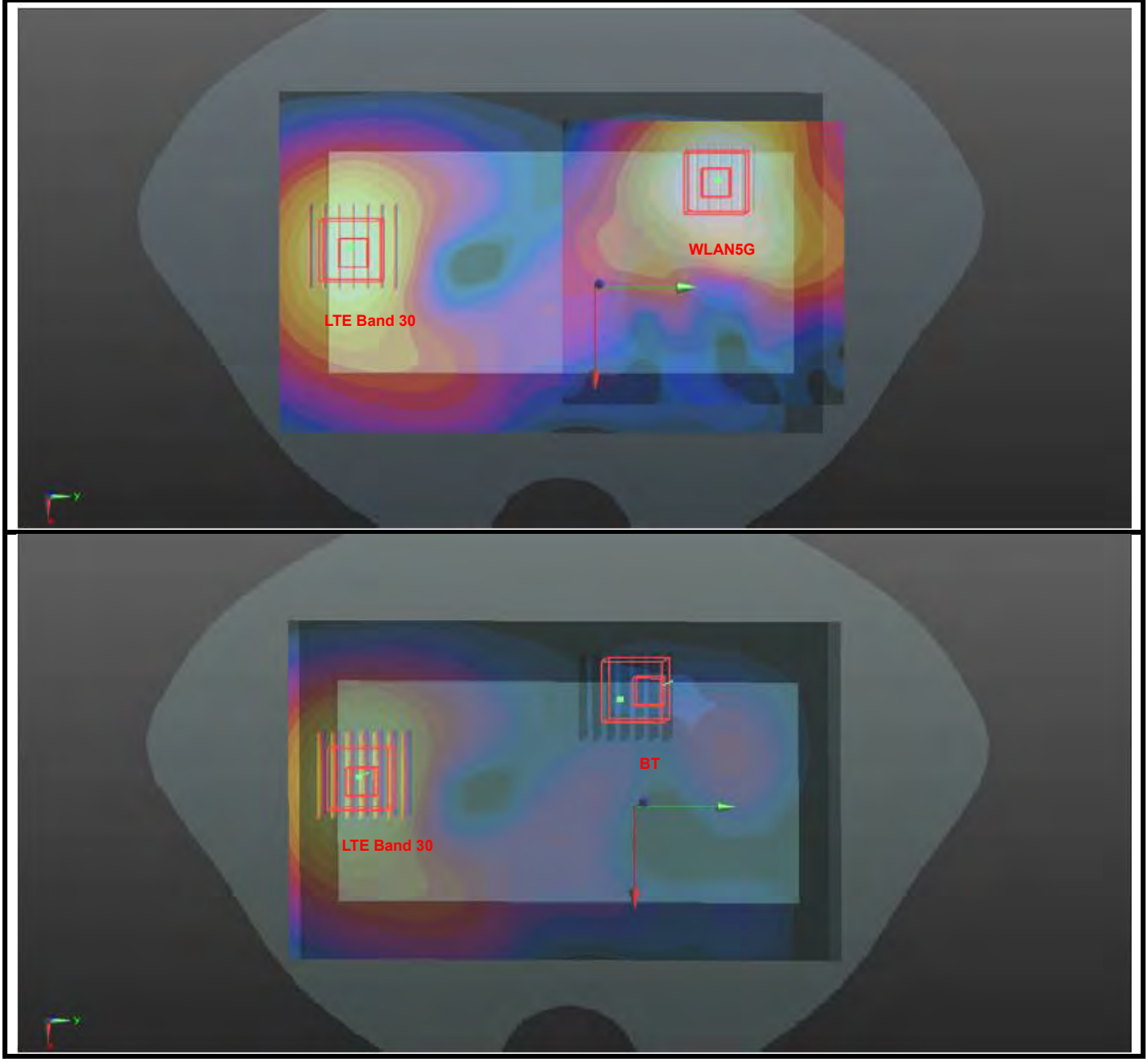


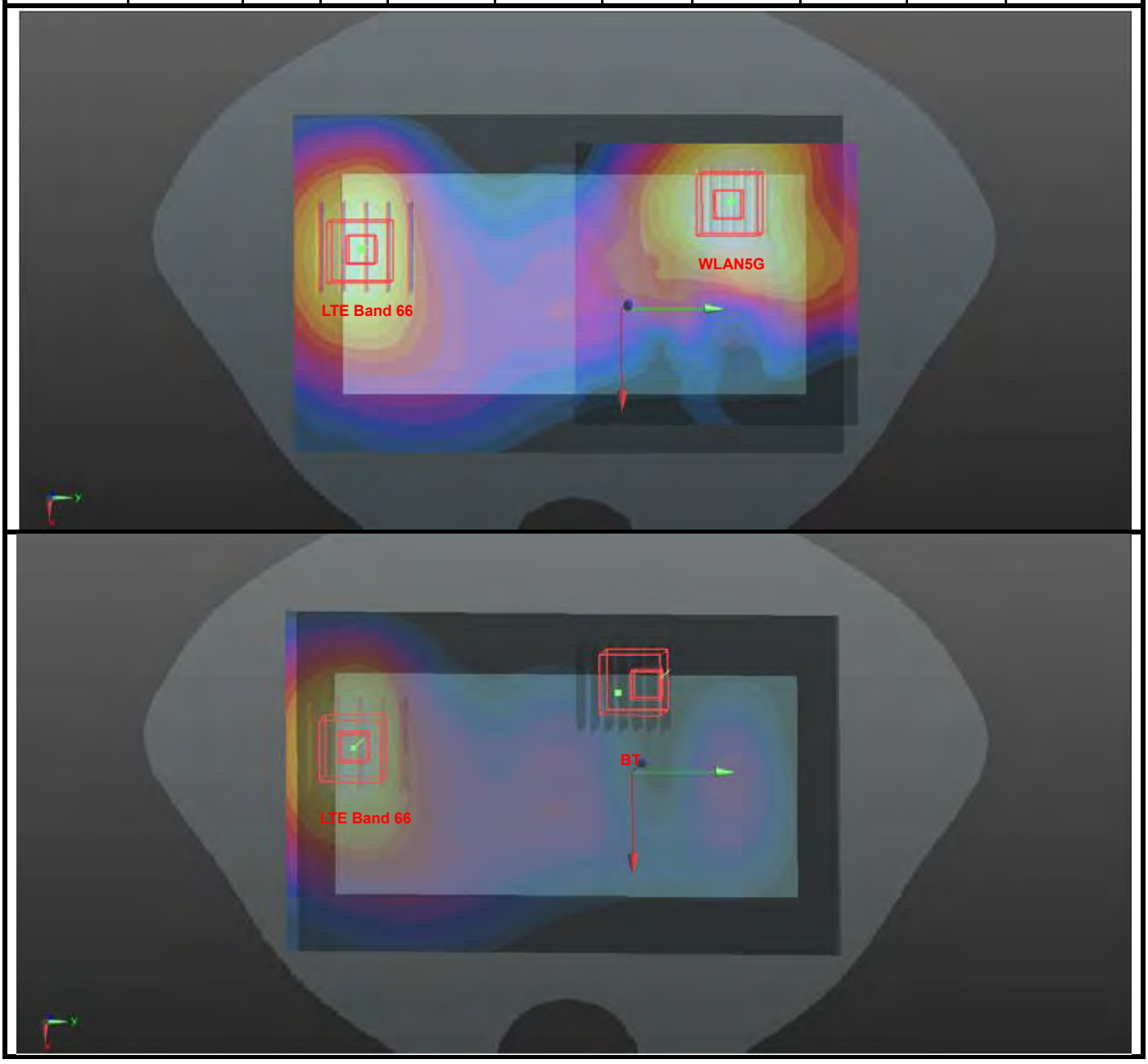
| Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | X | Y | Z | | | | |
| LTE Band 25 | Rear Face | 0.91 | 10 | -0.0316 | -0.066 | -0.207 | 121.9 | 1.70 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 25 | Rear Face | 0.91 | 10 | -0.0316 | -0.066 | -0.207 | 101.7 | 0.93 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |



| Band | Position | SAR (W/kg) | Gap | SAR peak location (m) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | X | Y | Z | | | | |
| LTE Band 30 | Rear Face | 0.91 | 10 | -0.0266 | -0.066 | -0.207 | 122.5 | 1.70 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 30 | Rear Face | 0.91 | 10 | -0.0266 | -0.066 | -0.207 | 102.9 | 0.93 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |



| Band | Position | SAR (W/kg) | Gap (mm) | SAR peak location (m) X | SAR peak location (m) Y | SAR peak location (m) Z | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|---|---|---|---|---|---|---|---|---|
| LTE Band 66 | Rear Face | 1.17 | 10 | -0.0215 | -0.073 | -0.203 | 130.4 | 1.96 | 0.02 | Not required |
| WLAN5G | | 0.79 | 10 | -0.046 | 0.055 | -0.207 | | | | |
| LTE Band 66 | Rear Face | 1.17 | 10 | -0.0215 | -0.073 | -0.203 | 111.0 | 1.19 | 0.01 | Not required |
| BT | | 0.02 | 10 | -0.0544 | 0.033 | -0.203 | | | | |




**Test Engineer :** Rikou Lu, and Dennis Ye

# 5. Calibration of Test Equipment

| Equipment | Manufacturer | Model | SN | Cal. Date | Cal. Interval |
|---|---|---|---|---|---|
| System Validation Dipole | SPEAG | D750V3 | 1067 | Sep. 16, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D835V2 | 4d139 | Sep. 17, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D1750V2 | 1071 | Sep. 18, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D1900V2 | 5d159 | Sep. 16, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D2300V2 | 1053 | Sep. 22, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D2450V2 | 893 | Sep. 18, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D2600V2 | 1110 | Sep. 16, 2021 | 1 Year |
| System Validation Dipole | SPEAG | D5GHzV2 | 1133 | Sep. 14, 2021 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1288 | Aug. 20, 2021 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 905 | Jun. 22, 2021 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | ES3DV3 | 3268 | Aug. 24, 2021 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 3873 | Aug. 25, 2021 | 1 Year |
| Radio Communication Analyzer | ANRITSU | MT8820C | 6201465426 | Feb. 25, 2021 | 1 Year |
| Wireless Communication Test Set | Agilent | E5515C | MY50260600 | Jun. 02, 2021 | 1 Year |
| ENA Series Network Analyzer | Agilent | E5071C | MY46214638 | Jun. 03, 2021 | 1 Year |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510355 | Jun. 03, 2021 | 1Year |
| MXG Analog Signal Generator | KEYSIGHT | N5183A | MY50143024 | Mar. 09, 2021 | 1 Year |
| Power Meter | Agilent | N1914A | MY52180044 | Mar. 02, 2021 | 1 Year |
| Power Sensor | Agilent | E9304A H18 | MY52050011 | Feb. 25, 2021 | 1 Year |
| Power Meter | ANRITSU | ML2495A | 1506002 | Apr. 07, 2021 | 1 Year |
| Power Sensor | ANRITSU | MA2411B | 1339353 | May. 07, 2021 | 1 Year |
| Temp. & Humi. Recorder | CLOCK | HTC-1 | 157248 | Jun. 02, 2021 | 1 Year |
| Electronic Thermometer | YONGFA | YF-160A | 120100323 | Jun. 02, 2021 | 1 Year |
| Coupler | Woken | 0110A056020-10 | COM27RW1A3 | Jun. 02, 2021 | 1 Year |

# 6. Measurement Uncertainty

| DASY5 Uncertainty Budget | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Error Description** | **Uncertainty Value (±%)** | **Probability** | **Divisor** | **(Ci) 1g** | **(Ci) 10g** | **Standard Uncertainty (1g) (±%)** | **Standard Uncertainty (10g) (±%)** | **(Vi) Veff** |
| **Measurement System** | | | | | | | | |
| Probe Calibration | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | ∞ |
| Axial Isotropy | 4.7 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| Hemispherical Isotropy | 9.6 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effects | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Linearity | 4.7 | R | 1.732 | 1 | 1 | 2.7 | 2.7 | ∞ |
| System Detection Limits | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Modulation Response | 3.2 | R | 1.732 | 1 | 1 | 1.8 | 1.8 | ∞ |
| Readout Electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Integration Time | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | ∞ |
| RF Ambient Noise | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| RF Ambient Reflections | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner | 0.4 | R | 1.732 | 1 | 1 | 0.2 | 0.2 | ∞ |
| Probe Positioning | 2.9 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Max. SAR Eval. | 2.0 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | ∞ |
| **Test Sample Related** | | | | | | | | |
| Device Positioning | 3.0 | N | 1 | 1 | 1 | 3.0 | 3.0 | 35 |
| Device Holder | 3.6 | N | 1 | 1 | 1 | 3.6 | 3.6 | 12 |
| Power Drift | 5.0 | R | 1.732 | 1 | 1 | 2.9 | 2.9 | ∞ |
| Power Scaling | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | ∞ |
| **Phantom and Setup** | | | | | | | | |
| Phantom Uncertainty | 6.1 | R | 1.732 | 1 | 1 | 3.5 | 3.5 | ∞ |
| SAR correction | 0.0 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 | ∞ |
| Liquid Conductivity Repeatability | 0.2 | N | 1 | 0.78 | 0.71 | 0.1 | 0.1 | 5 |
| Liquid Conductivity (target) | 5.0 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 | ∞ |
| Liquid Conductivity (mea.) | 2.5 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 | ∞ |
| Temp. unc. - Conductivity | 3.4 | R | 1.732 | 0.78 | 0.71 | 1.5 | 1.4 | ∞ |
| Liquid Permittivity Repeatability | 0.15 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 | 5 |
| Liquid Permittivity (target) | 5.0 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 | ∞ |
| Liquid Permittivity (mea.) | 2.5 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 | ∞ |
| Temp. unc. - Permittivity | 0.83 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | ∞ |
| **Combined Std. Uncertainty** | | | | | | 11.4% | 11.4% | 1013 |
| **Coverage Factor for 95 %** | | | | | | K=2 | K=2 | |
| **Expanded STD Uncertainty** | | | | | | 22.9% | 22.7% | |

**Uncertainty budget for frequency range 30 MHz to 3 GHz**

| DASY5 Uncertainty Budget | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Error Description** | **Uncertainty Value (±%)** | **Probability** | **Divisor** | **(Ci) 1g** | **(Ci) 10g** | **Standard Uncertainty (1g) (±%)** | **Standard Uncertainty (10g) (±%)** | **(Vi) Veff** |
| **Measurement System** | | | | | | | | |
| Probe Calibration | 6.55 | N | 1 | 1 | 1 | 6.5 | 6.5 | ∞ |
| Axial Isotropy | 4.7 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| Hemispherical Isotropy | 9.6 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effects | 2.0 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | ∞ |
| Linearity | 4.7 | R | 1.732 | 1 | 1 | 2.7 | 2.7 | ∞ |
| System Detection Limits | 1.0 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Modulation Response | 3.2 | R | 1.732 | 1 | 1 | 1.8 | 1.8 | ∞ |
| Readout Electronics | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Integration Time | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | ∞ |
| RF Ambient Noise | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| RF Ambient Reflections | 3.0 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner | 0.4 | R | 1.732 | 1 | 1 | 0.2 | 0.2 | ∞ |
| Probe Positioning | 6.7 | R | 1.732 | 1 | 1 | 3.9 | 3.9 | ∞ |
| Max. SAR Eval. | 4.0 | R | 1.732 | 1 | 1 | 2.3 | 2.3 | ∞ |
| **Test Sample Related** | | | | | | | | |
| Device Positioning | 3.0 | N | 1 | 1 | 1 | 3.0 | 3.0 | 35 |
| Device Holder | 3.6 | N | 1 | 1 | 1 | 3.6 | 3.6 | 12 |
| Power Drift | 5.0 | R | 1.732 | 1 | 1 | 2.9 | 2.9 | ∞ |
| Power Scaling | 0.0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | ∞ |
| **Phantom and Setup** | | | | | | | | |
| Phantom Uncertainty | 6.6 | R | 1.732 | 1 | 1 | 3.8 | 3.8 | ∞ |
| SAR correction | 0.0 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 | ∞ |
| Liquid Conductivity Repeatability | 0.2 | N | 1 | 0.78 | 0.71 | 0.1 | 0.1 | 5 |
| Liquid Conductivity (target) | 5.0 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 | ∞ |
| Liquid Conductivity (mea.) | 2.5 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 | ∞ |
| Temp. unc. - Conductivity | 3.4 | R | 1.732 | 0.78 | 0.71 | 1.5 | 1.4 | ∞ |
| Liquid Permittivity Repeatability | 0.15 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 | 5 |
| Liquid Permittivity (target) | 5.0 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 | ∞ |
| Liquid Permittivity (mea.) | 2.5 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 | ∞ |
| Temp. unc. - Permittivity | 0.83 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | ∞ |
| **Combined Std. Uncertainty** | | | | | | 12.5% | 12.5% | 1458 |
| **Coverage Factor for 95 %** | | | | | | K=2 | K=2 | |
| **Expanded STD Uncertainty** | | | | | | 25.0% | 24.9% | |

**Uncertainty budget for frequency range 3 GHz to 6 GHz**

# 7. Information on the Testing Laboratories

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Add: No. B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industry Park, Nanshan District, Shenzhen, Guangdong, China
Tel: 86-755-8869-6566
Fax: 86-755-8869-6577

**Email:** customerservice.sw@cn.bureauveritas.com
**Web Site:** www.bureauveritas.com

The road map of all our labs can be found in our web site also.

**---END---**

# Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

# System Check_HSL750_211022

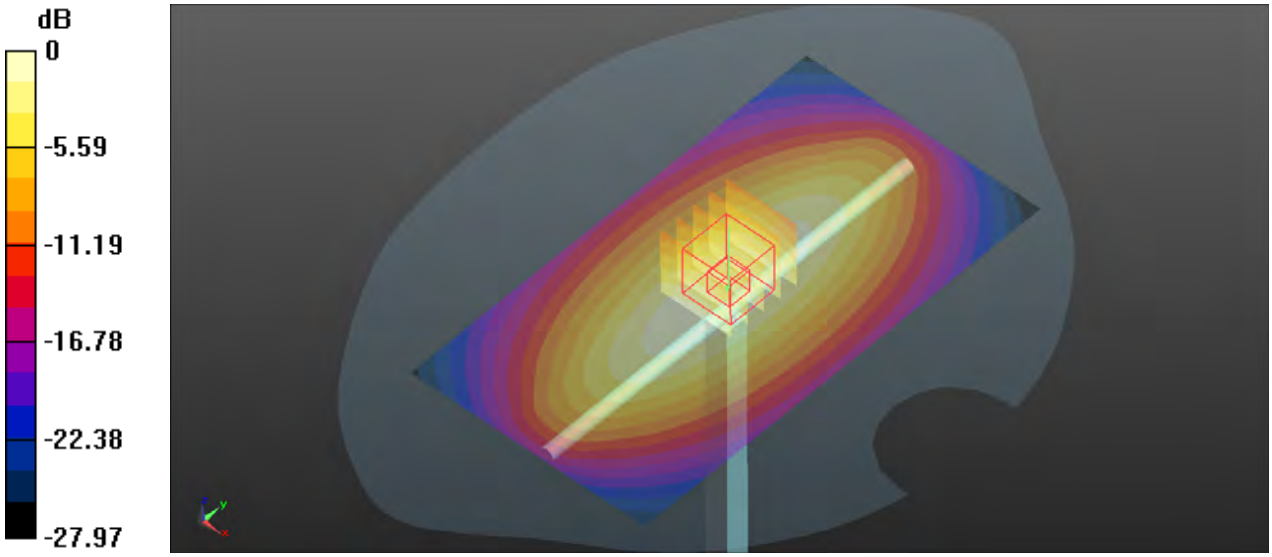
## DUT: Dipole:750 MHz;Type:D750V3

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL750_1022 Medium parameters used: f = 750 MHz; $\sigma$ = 0.885 S/m; $\varepsilon_r$ = 42.892; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.4℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(6.6, 6.6, 6.6); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (71x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.78 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.714 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 3.21 W/kg
**SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.38 W/kg**
Maximum value of SAR (measured) = 2.84 W/kg




0 dB = 2.78 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/22

# System Check_HSL835_211022

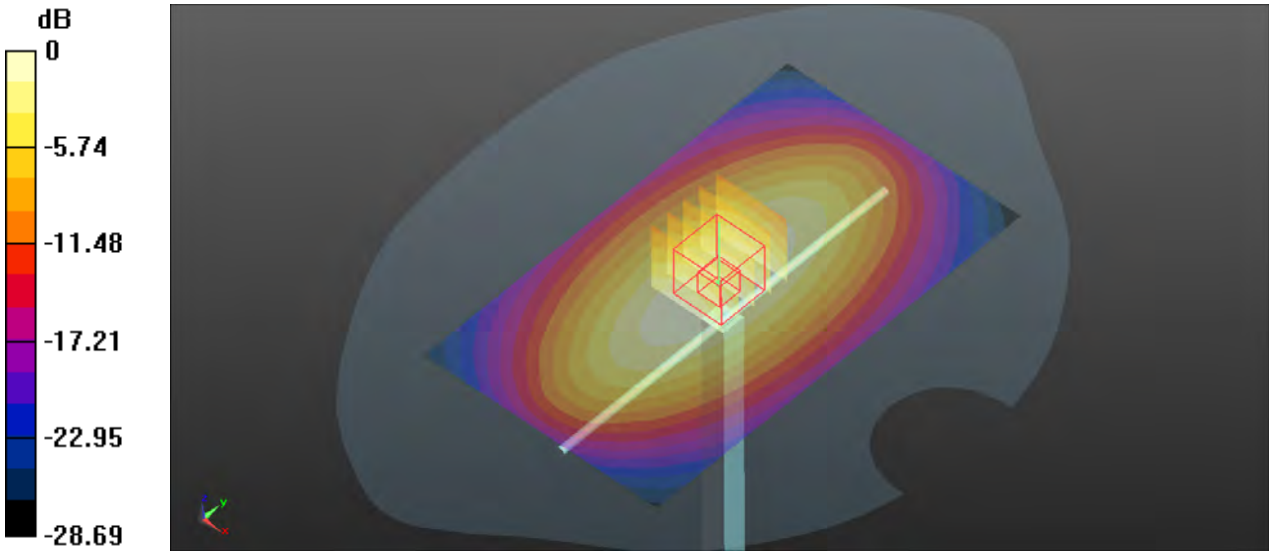
## DUT: Dipole:835 MHz;Type:D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL835_1022 Medium parameters used: f = 835 MHz; $\sigma$ = 0.917 S/m; $\varepsilon_r$ = 42.61; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.58 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.208 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.52 W/kg
**SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.61 W/kg**
Maximum value of SAR (measured) = 2.65 W/kg




0 dB = 2.58 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/23

# System Check_HSL1750_211023

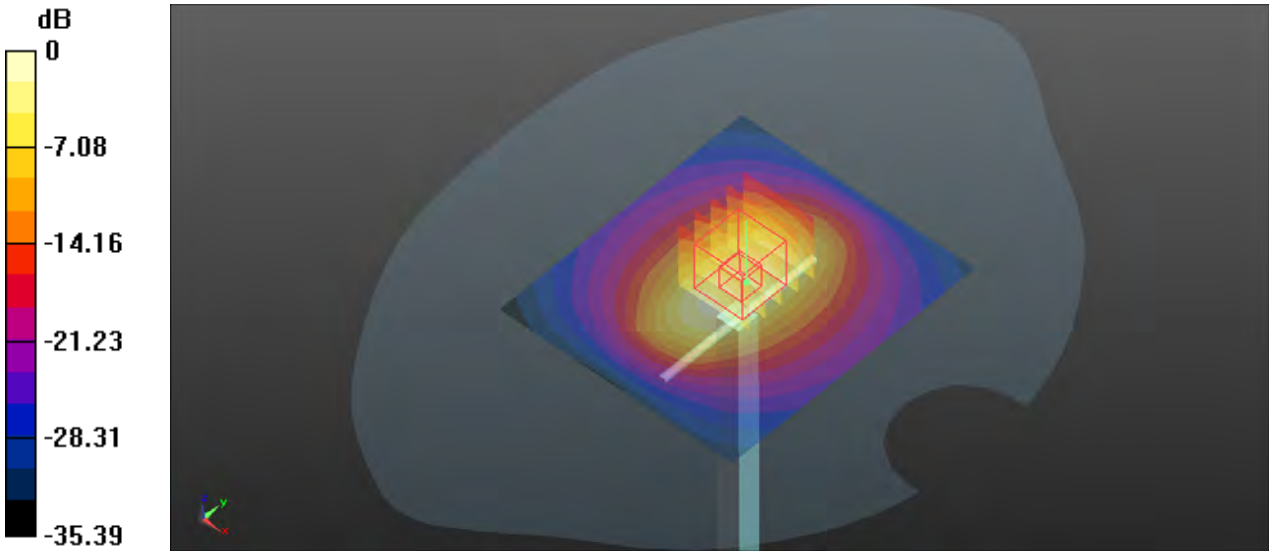
## DUT: Dipole:1750 MHz;Type:D1750V2

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: HSL1750_1023 Medium parameters used: f = 1750 MHz; $\sigma$ = 1.334 S/m; $\varepsilon_r$ = 40.106; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.1℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(5.43, 5.43, 5.43); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.2 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 119.8 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 16.9 W/kg
**SAR(1 g) = 9.3 W/kg; SAR(10 g) = 4.93 W/kg**
Maximum value of SAR (measured) = 14.3 W/kg




0 dB = 15.2 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/25

# System Check_HSL1900_211025

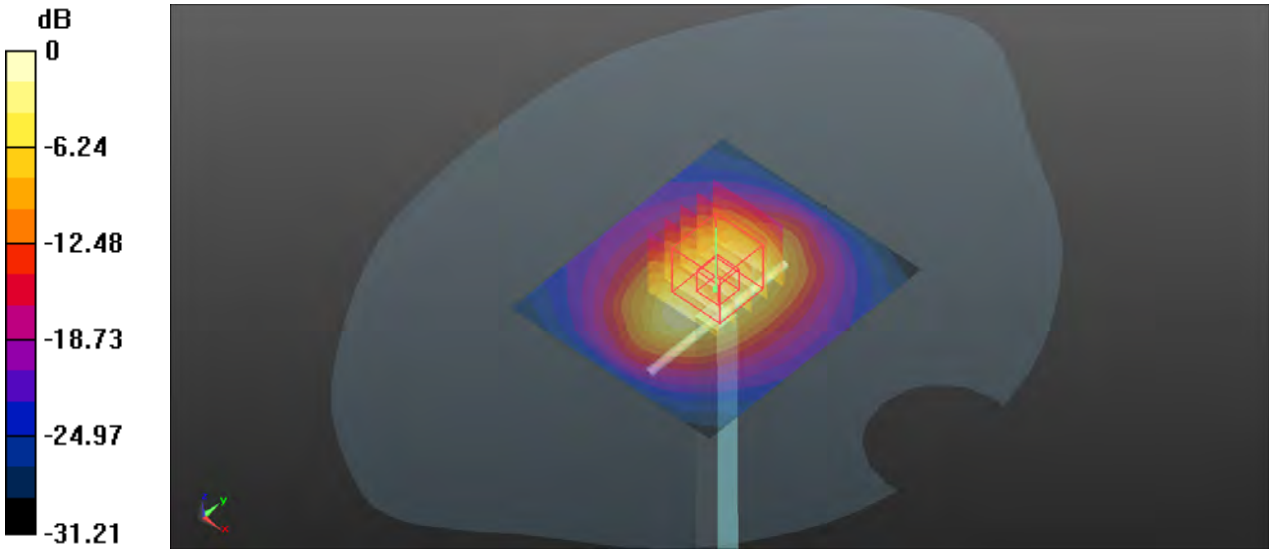
## DUT: Dipole:1900MHz;Type:D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_1025 Medium parameters used: f = 1900 MHz; $\sigma$ = 1.422 S/m; $\varepsilon_r$ = 39.97; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.4℃； Liquid Temperature：22.8℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 16.8 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 101.9 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 18.2 W/kg
**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.24 W/kg**
Maximum value of SAR (measured) = 15.7 W/kg




0 dB = 16.8 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/26

## System Check_HSL2300_211026

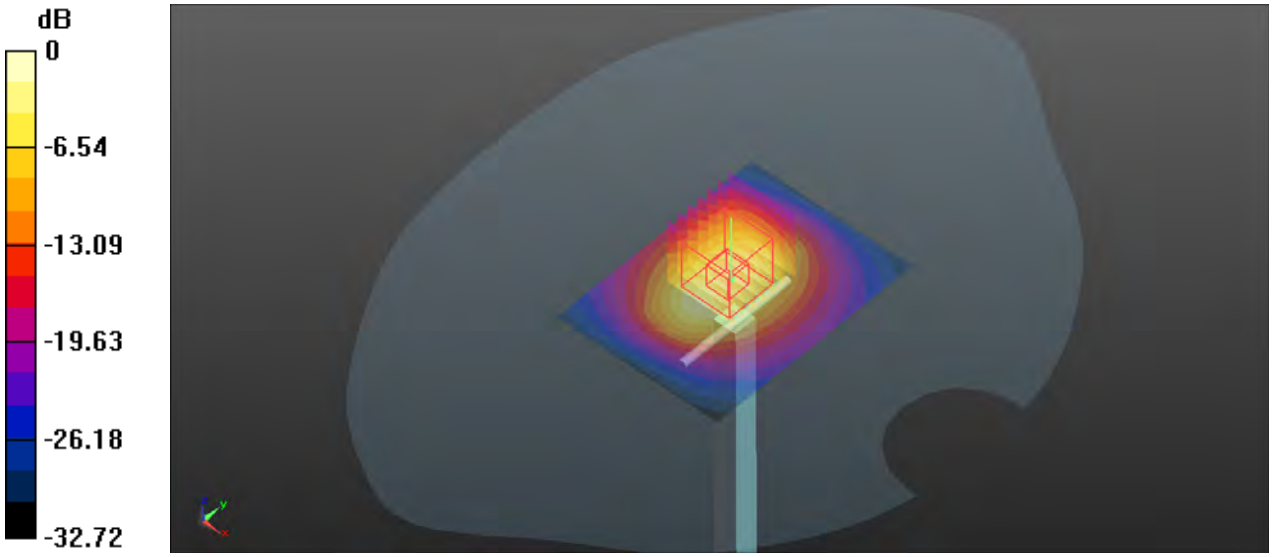
### DUT: Dipole:2300 MHz;Type:D2300V2

Communication System: CW; Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: HSL2300_1026 Medium parameters used: f = 2300 MHz; $\sigma$ = 1.679 S/m; $\varepsilon_r$ = 39.707; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.7℃； Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(4.86, 4.86, 4.86); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.0 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.955 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 22.2 W/kg
**SAR(1 g) = 11.41 W/kg; SAR(10 g) = 5.28 W/kg**
Maximum value of SAR (measured) = 18.1 W/kg




0 dB = 19.0 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/26

## System Check_HSL2450_211026

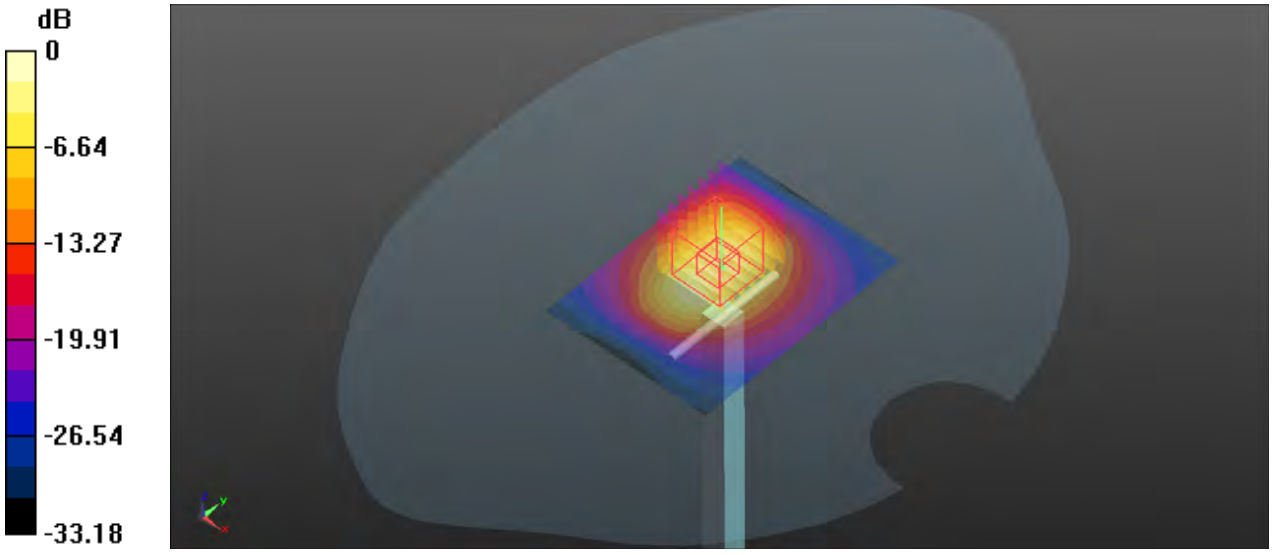
### DUT: Dipole:2450 MHz;Type:D2450V2

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL2450_1026 Medium parameters used: f = 2450 MHz; $\sigma$ = 1.781 S/m; $\varepsilon_r$ = 39.343; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.2℃； Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(4.56, 4.56, 4.56); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.8 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.184 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 26.1 W/kg
**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.77 W/kg**
Maximum value of SAR (measured) = 20.8 W/kg




0 dB = 21.8 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/27

## System Check_HSL2600_211027

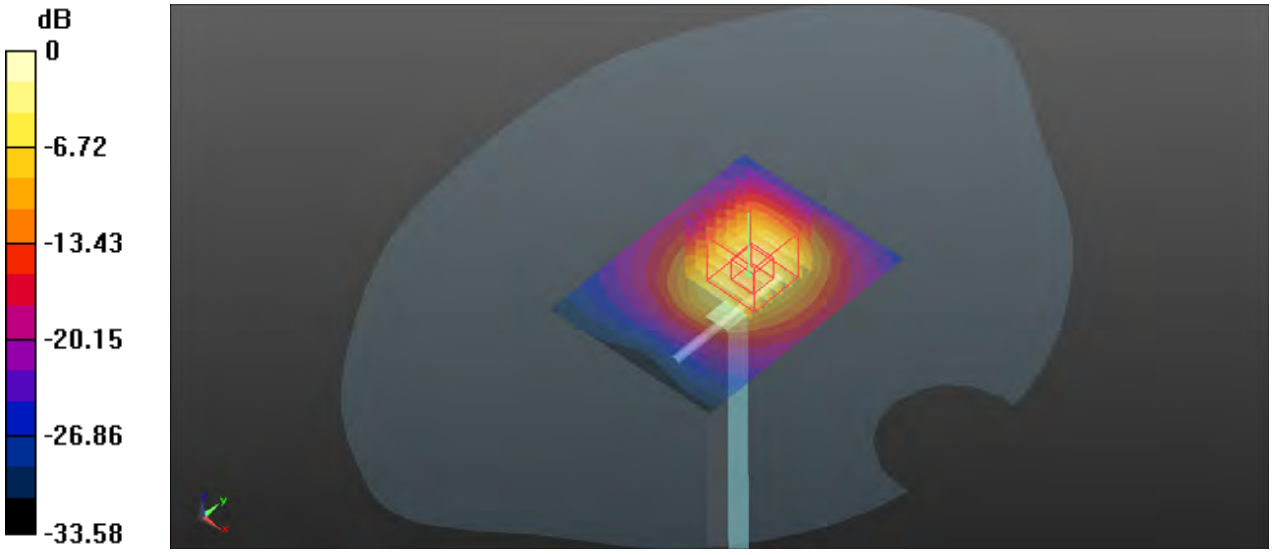
### DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_1027 Medium parameters used: f = 2600 MHz; $\sigma$ = 1.898 S/m; $\varepsilon_r$ = 39.175; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.8℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(4.42, 4.42, 4.42); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 16.5 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 78.777 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 27.9 W/kg
**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.21 W/kg**
Maximum value of SAR (measured) = 15.5 W/kg




0 dB = 16.5 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/28

# System Check_HSL5250_211028

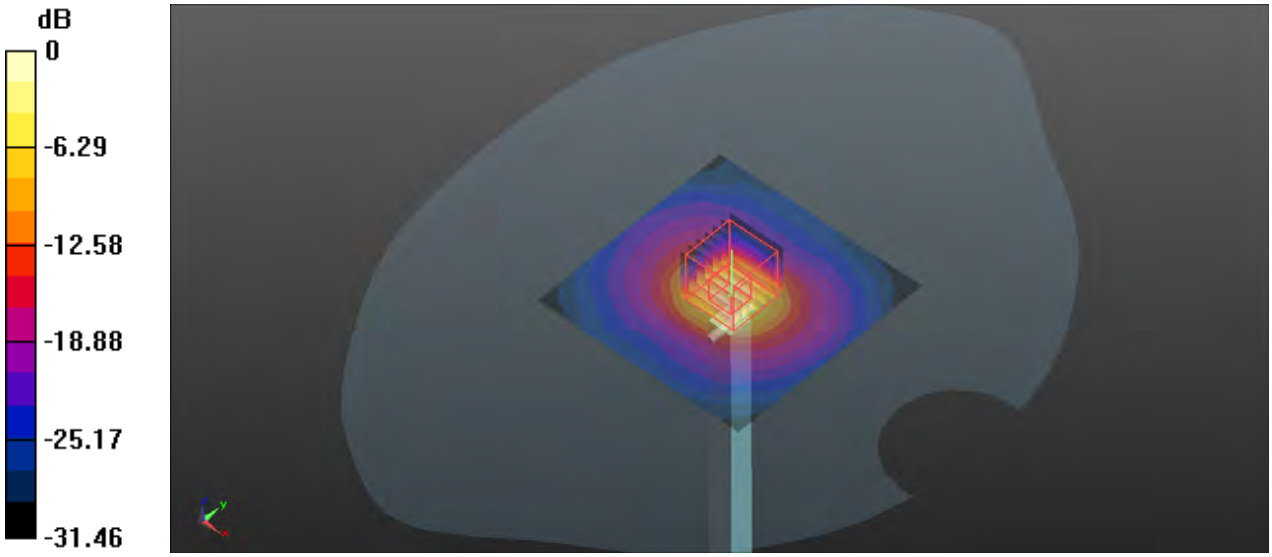
## DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: HSL5G_1028 Medium parameters used: f = 5250 MHz; $\sigma$ = 4.742 S/m; $\varepsilon_r$ = 36.254; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.6℃； Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2021/6/22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 17.7 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 62.239 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 27.4 W/kg
**SAR(1 g) = 7.11 W/kg; SAR(10 g) = 2.06 W/kg**
Maximum value of SAR (measured) = 17.5 W/kg




0 dB = 17.7 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/29

# System Check_HSL5800_211029

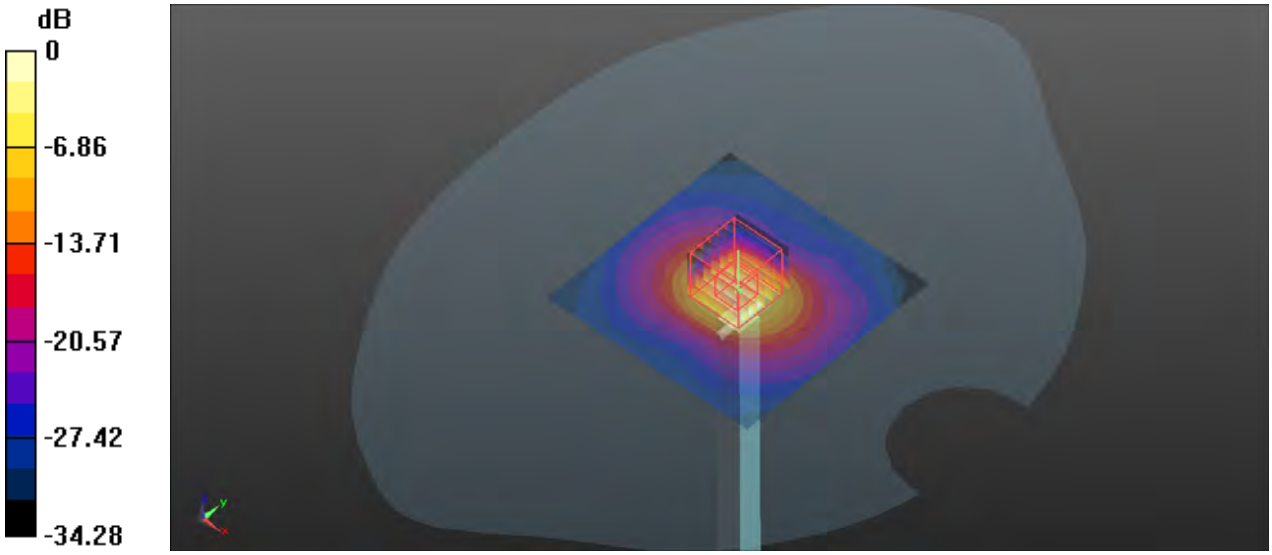
## DUT: Dipole 5GHzV2;Type:D5GHzV2

Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium: HSL5G_1029 Medium parameters used: f = 5800 MHz; $\sigma$ = 5.314 S/m; $\varepsilon_r$ = 35.451; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.4℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2021/6/22
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 17.7 W/kg

**Pin=100mW/Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.159 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 32.3 W/kg
**SAR(1 g) = 7.24 W/kg; SAR(10 g) = 2.08 W/kg**
Maximum value of SAR (measured) = 18.8 W/kg




0 dB = 17.7 W/kg

# Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/22

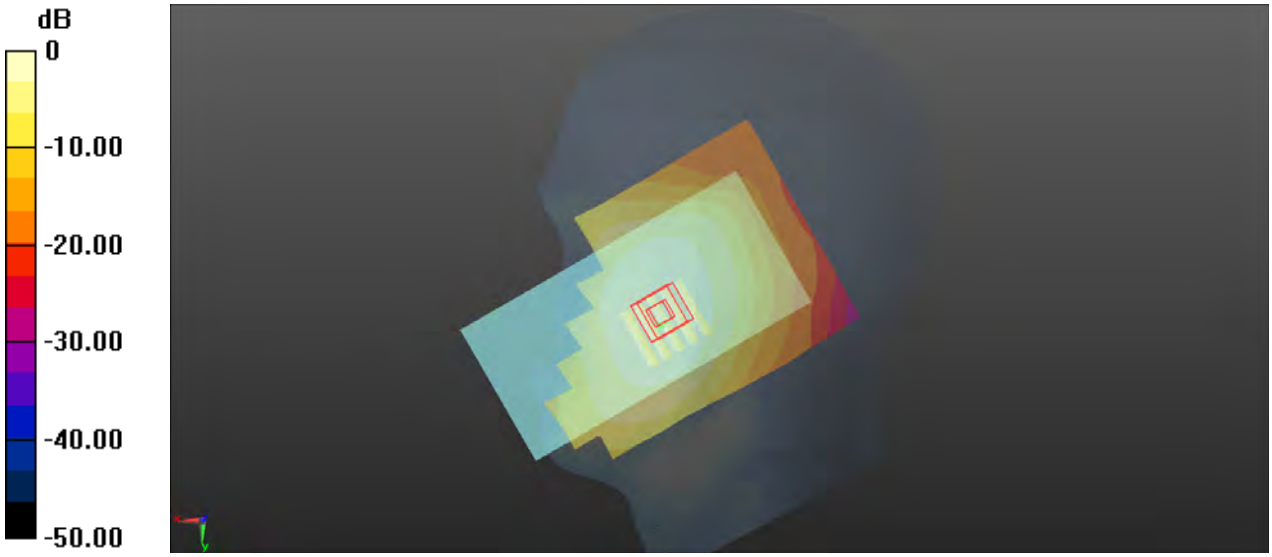
## P01 GSM850_GPRS10_Right Cheek_Ch128

Communication System: GPRS10; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium: HSL835_1022 Medium parameters used: f = 824.2 MHz; $\sigma$ = 0.913 S/m; $\varepsilon_r$ = 42.644; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.451 W/kg

**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.497 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.525 W/kg
**SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.330 W/kg**
Maximum value of SAR (measured) = 0.445 W/kg




0 dB = 0.451 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/25

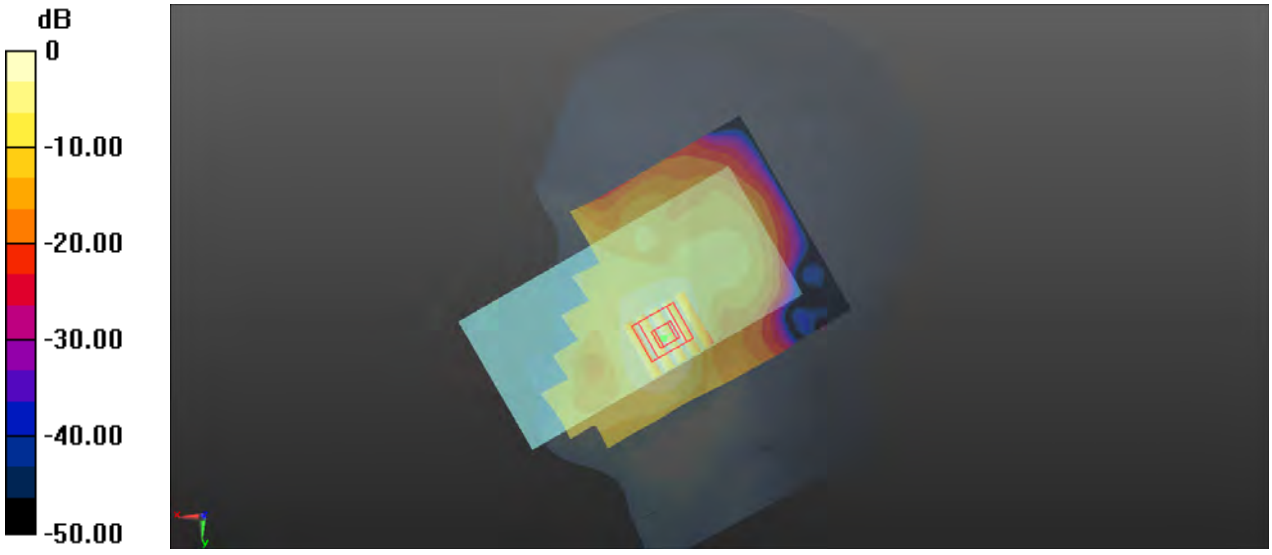
# P02 GSM1900_GPRS11_Right Cheek_Ch810

Communication System: GPRS11; Frequency: 1909.8 MHz;Duty Cycle: 1:2.77
Medium: HSL1900_1025 Medium parameters used: f = 1910 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 39.978; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.4℃； Liquid Temperature：22.8℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.126 W/kg

**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.535 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.167 W/kg
**SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.061 W/kg**
Maximum value of SAR (measured) = 0.112 W/kg




0 dB = 0.126 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/25

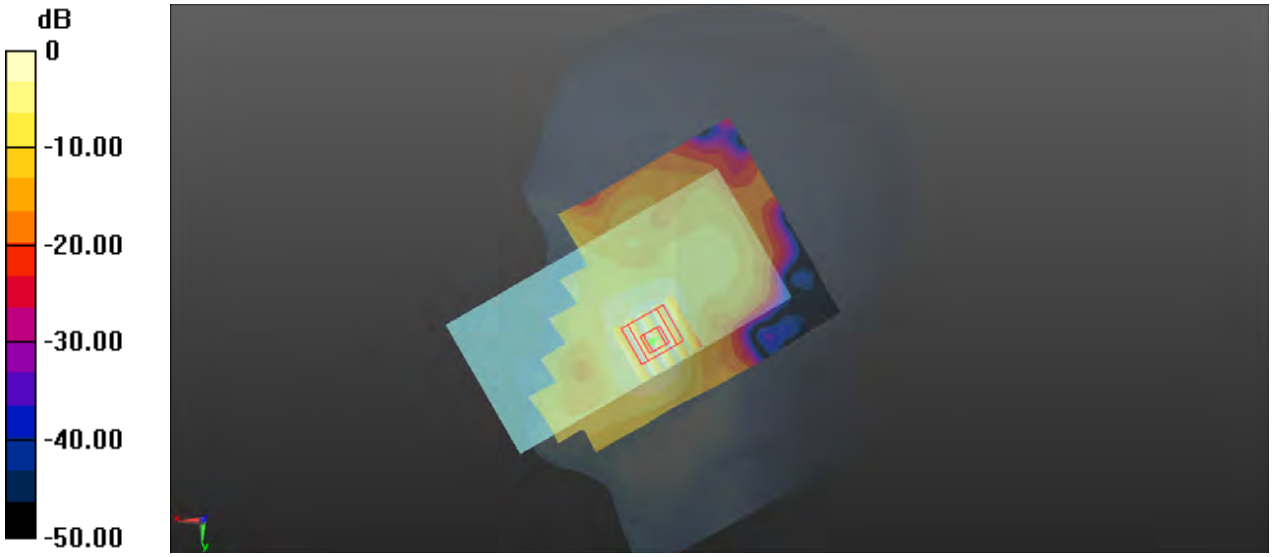
## P03 WCDMA II_RMC12.2K_Right Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: HSL1900_1025 Medium parameters used: f = 1908 MHz; $\sigma$ = 1.428 S/m; $\varepsilon_r$ = 39.979; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.4℃； Liquid Temperature：22.8℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.141 W/kg

**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.834 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.186 W/kg
**SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.069 W/kg**
Maximum value of SAR (measured) = 0.126 W/kg




0 dB = 0.141 W/kg

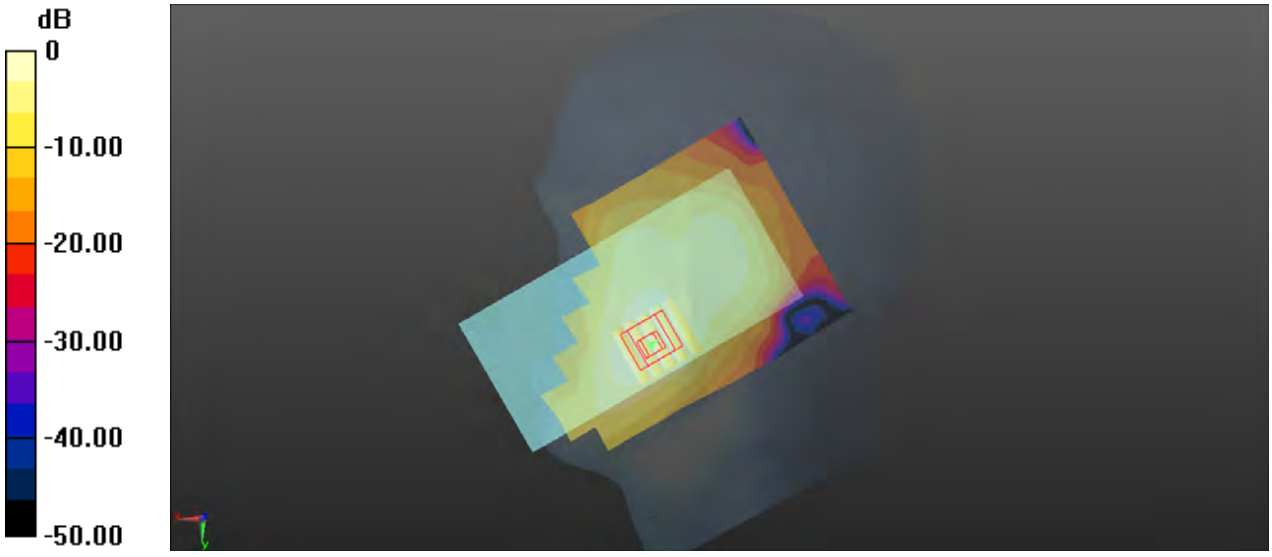
# P04 WCDMA IV_RMC12.2K_Right Cheek_Ch1312

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: HSL1750_1023 Medium parameters used: f = 1712.4 MHz; $\sigma$ = 1.324 S/m; $\varepsilon_r$ = 40.223; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.1℃； Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(5.43, 5.43, 5.43); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.174 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.329 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.252 W/kg
**SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.102 W/kg**
Maximum value of SAR (measured) = 0.179 W/kg




0 dB = 0.174 W/kg

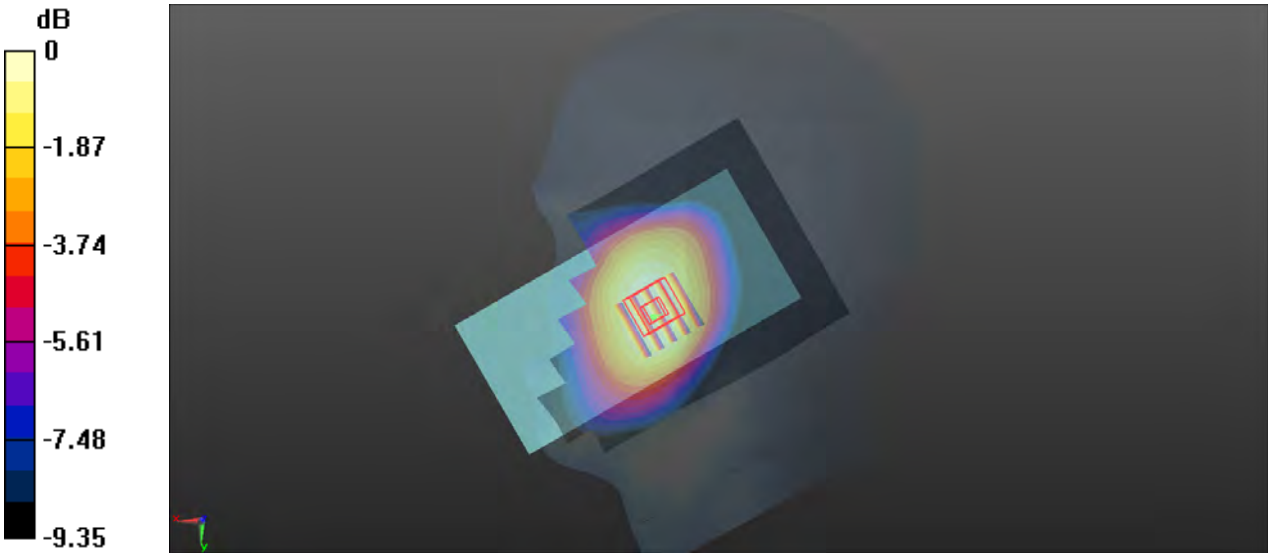
# P05 WCDMA V_RMC12.2K_Right Cheek_Ch4132

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL835_1022 Medium parameters used: f = 826.4 MHz; $\sigma$ = 0.914 S/m; $\varepsilon_r$ = 42.636; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.346 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.002 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.396 W/kg
**SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.246 W/kg**
Maximum value of SAR (measured) = 0.336 W/kg




0 dB = 0.336 W/kg

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2021/10/22

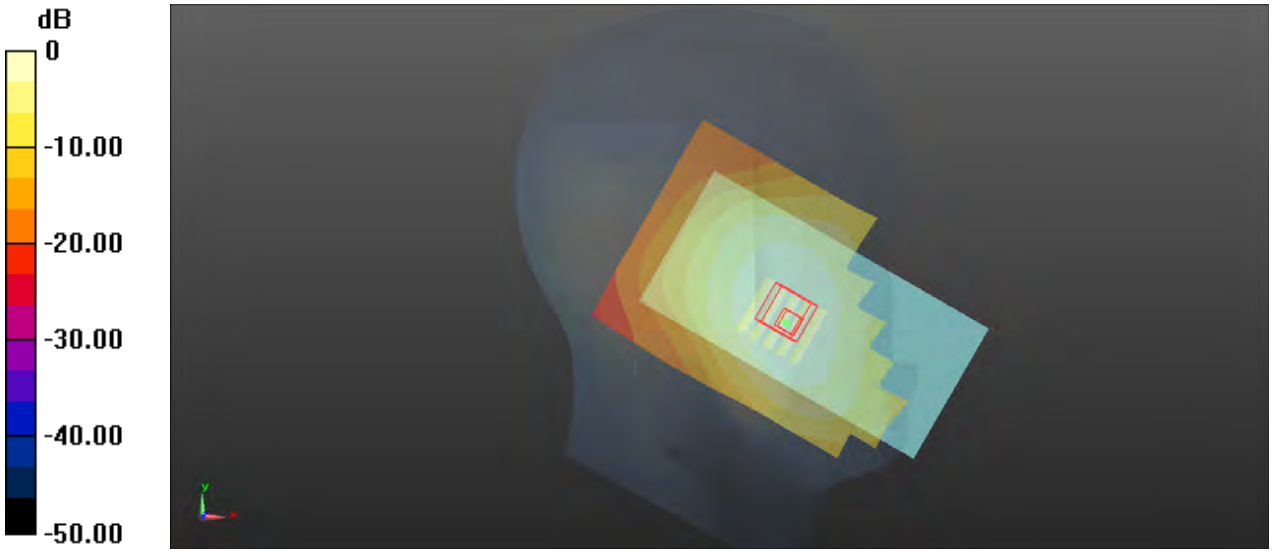
## P06 LTE 5_QPSK10M_Left Cheek_Ch20525_1RB_OS49

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL835_1022 Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.918 S/m; $\varepsilon_r$ = 42.606; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1781
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**- Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.341 W/kg

**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.559 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.403 W/kg
**SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.245 W/kg**
Maximum value of SAR (measured) = 0.339 W/kg




0 dB = 0.341 W/kg