



<Full Power Mode>

<2.4GHz WLAN>

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 16.88 | 18.00 | 100 |
| | | 6 | 2437 | 19.91 | 20.00 | |
| | | 11 | 2462 | 17.98 | 19.00 | |
| | 802.11g 6Mbps | 1 | 2412 | 18.98 | 19.50 | 98.28 |
| | | 6 | 2437 | 19.18 | 19.50 | |
| | | 11 | 2462 | 18.92 | 19.50 | |
| | 802.11n-HT20 MCS0 | 1 | 2412 | 17.85 | 18.50 | 97.79 |
| | | 6 | 2437 | 18.05 | 18.50 | |
| | | 11 | 2462 | 18.08 | 18.50 | |
| | 802.11n-HT40 MCS0 | 3 | 2422 | 16.74 | 17.00 | 94.93 |
| | | 6 | 2437 | 16.75 | 17.00 | |
| | | 9 | 2452 | 16.82 | 17.00 | |

<5GHz WLAN>

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | 18.67 | 20.00 | 98.28 |
| | | 40 | 5200 | 19.02 | 20.00 | |
| | | 44 | 5220 | 19.04 | 20.00 | |
| | | 48 | 5240 | 19.06 | 20.00 | |
| | 802.11n-HT20 MCS0 | 36 | 5180 | 18.54 | 19.50 | 98.16 |
| | | 40 | 5200 | 18.95 | 19.50 | |
| | | 44 | 5220 | 19.01 | 19.50 | |
| | | 48 | 5240 | 19.08 | 19.50 | |
| | 802.11n-HT40 MCS0 | 38 | 5190 | 18.96 | 19.50 | 96.32 |
| | | 46 | 5230 | 19.11 | 19.50 | |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | 18.51 | 19.50 | 96.16 |
| | | 40 | 5200 | 18.97 | 19.50 | |
| | | 44 | 5220 | 19.01 | 19.50 | |
| | | 48 | 5240 | 19.02 | 19.50 | |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | 18.94 | 19.50 | 96.32 |
| | | 46 | 5230 | 19.09 | 19.50 | |
| | 802.11ac-VHT80 MCS0 | 42 | 5210 | 17.86 | 18.00 | 92.49 |

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | 18.81 | 20.00 | 98.28 |
| | | 56 | 5280 | 19.03 | 20.00 | |
| | | 60 | 5300 | 18.83 | 20.00 | |
| | | 64 | 5320 | 18.40 | 20.00 | |
| | 802.11n-HT20 MCS0 | 52 | 5260 | 18.62 | 19.50 | 98.16 |
| | | 56 | 5280 | 19.09 | 19.50 | |
| | | 60 | 5300 | 18.86 | 19.50 | |
| | | 64 | 5320 | 18.31 | 19.50 | |
| | 802.11n-HT40 MCS0 | 54 | 5270 | 18.75 | 19.50 | 96.32 |
| | | 62 | 5310 | 17.82 | 19.50 | |
| | 802.11ac-VHT20 MCS0 | 52 | 5260 | 18.67 | 19.50 | 96.16 |
| | | 56 | 5280 | 19.06 | 19.50 | |
| | | 60 | 5300 | 18.80 | 19.50 | |
| | | 64 | 5320 | 18.25 | 19.50 | |
| | 802.11ac-VHT40 MCS0 | 54 | 5270 | 18.65 | 19.50 | 96.32 |
| | | 62 | 5310 | 17.85 | 19.50 | |
| 802.11ac-VHT80 MCS0 | 58 | 5290 | 17.90 | 18.00 | 92.49 | |



| 5.5GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a 6Mbps | 100 | 5500 | 17.89 | 19.50 | 98.28 |
| | | 116 | 5580 | 18.13 | 19.50 | |
| | | 132 | 5660 | 18.14 | 19.50 | |
| | | 140 | 5700 | 17.93 | 19.50 | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | 18.09 | 19.50 | 98.16 |
| | | 116 | 5580 | 18.70 | 19.50 | |
| | | 132 | 5660 | 18.69 | 19.50 | |
| | | 140 | 5700 | 18.42 | 19.50 | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | 19.09 | 19.50 | 96.32 |
| 110 | | 5550 | 19.25 | 19.50 | | |
| 134 | | 5670 | 17.94 | 19.50 | | |
| 802.11ac-VHT20 MCS0 | 100 | 5500 | 18.20 | 19.50 | 96.16 | |
| | 116 | 5580 | 18.63 | 19.50 | | |
| | 132 | 5660 | 18.63 | 19.50 | | |
| | 140 | 5700 | 18.49 | 19.50 | | |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | 19.07 | 19.50 | 96.32 | |
| | 110 | 5550 | 19.21 | 19.50 | | |
| | 134 | 5670 | 17.91 | 19.50 | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 17.63 | 18.00 | 92.49 | |

| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a MCS0 | 149 | 5745 | 18.10 | 19.50 | 98.28 |
| | | 157 | 5785 | 18.50 | 19.50 | |
| | | 165 | 5825 | 18.91 | 19.50 | |
| | 802.11n-HT20 MCS0 | 149 | 5745 | 18.54 | 19.50 | 98.16 |
| | | 157 | 5785 | 18.79 | 19.50 | |
| | | 165 | 5825 | 19.18 | 19.50 | |
| | 802.11n-HT40 MCS0 | 151 | 5755 | 17.82 | 19.00 | 96.32 |
| | | 159 | 5795 | 18.78 | 19.00 | |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | 18.49 | 19.50 | 96.16 |
| 157 | | 5785 | 18.73 | 19.50 | | |
| 165 | | 5825 | 19.16 | 19.50 | | |
| 802.11ac-VHT40 MCS0 | 151 | 5755 | 17.81 | 19.00 | 96.32 | |
| | 159 | 5795 | 18.73 | 19.00 | | |
| 802.11ac-VHT80 MCS0 | 155 | 5775 | 18.01 | 19.00 | 92.49 | |



<Reduced Power Mode for Receiver On>

<2.4GHz WLAN>

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 16.88 | 18.00 | 100.00 |
| | | 6 | 2437 | 18.07 | 18.50 | |
| | | 11 | 2462 | 17.98 | 19.00 | |
| | 802.11g 6Mbps | 1 | 2412 | 15.45 | 17.00 | 98.28 |
| | | 6 | 2437 | 16.63 | 17.00 | |
| | | 11 | 2462 | 16.61 | 17.00 | |
| | 802.11n-HT20 MCS0 | 1 | 2412 | 15.32 | 17.00 | 97.79 |
| | | 6 | 2437 | 16.53 | 17.00 | |
| | | 11 | 2462 | 16.49 | 17.00 | |
| | 802.11n-HT40 MCS0 | 3 | 2422 | 15.71 | 17.00 | 94.93 |
| | | 6 | 2437 | 16.71 | 17.00 | |
| | | 9 | 2452 | 16.68 | 17.00 | |

<5GHz WLAN>

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | 16.49 | 17.50 | 98.28 |
| | | 40 | 5200 | 16.93 | 17.50 | |
| | | 44 | 5220 | 16.97 | 17.50 | |
| | | 48 | 5240 | 17.02 | 17.50 | |
| | 802.11n-HT20 MCS0 | 36 | 5180 | 16.30 | 17.00 | 98.16 |
| | | 40 | 5200 | 16.72 | 17.00 | |
| | | 44 | 5220 | 16.75 | 17.00 | |
| | | 48 | 5240 | 16.90 | 17.00 | |
| | 802.11n-HT40 MCS0 | 38 | 5190 | 17.37 | 17.50 | 96.32 |
| | | 46 | 5230 | 17.34 | 17.50 | |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | 16.40 | 17.00 | 98.16 |
| | | 40 | 5200 | 16.73 | 17.00 | |
| | | 44 | 5220 | 16.81 | 17.00 | |
| | | 48 | 5240 | 16.85 | 17.00 | |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | 17.34 | 17.50 | 96.32 |
| | | 46 | 5230 | 17.28 | 17.50 | |
| | 802.11ac-VHT80 MCS0 | 42 | 5210 | 16.06 | 17.00 | 92.49 |



| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | 16.76 | 17.50 | 98.28 |
| | | 56 | 5280 | 17.09 | 17.50 | |
| | | 60 | 5300 | 16.75 | 17.50 | |
| | | 64 | 5320 | 16.46 | 17.50 | |
| | 802.11n-HT20 MCS0 | 52 | 5260 | 16.41 | 17.00 | 98.16 |
| | | 56 | 5280 | 16.91 | 17.00 | |
| | | 60 | 5300 | 16.63 | 17.00 | |
| | | 64 | 5320 | 16.30 | 17.00 | |
| | 802.11n-HT40 MCS0 | 54 | 5270 | 16.88 | 17.00 | 96.32 |
| | | 62 | 5310 | 16.15 | 17.00 | |
| | 802.11ac-VHT20 MCS0 | 52 | 5260 | 16.55 | 17.00 | 98.16 |
| | | 56 | 5280 | 16.89 | 17.00 | |
| | | 60 | 5300 | 16.80 | 17.00 | |
| | | 64 | 5320 | 16.23 | 17.00 | |
| | 802.11ac-VHT40 MCS0 | 54 | 5270 | 16.88 | 17.00 | 96.32 |
| | | 62 | 5310 | 16.20 | 17.00 | |
| 802.11ac-VHT80 MCS0 | 58 | 5290 | 16.09 | 17.00 | 92.49 | |



| 5.5GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a 6Mbps | 100 | 5500 | 15.84 | 17.50 | 98.28 |
| | | 116 | 5580 | 15.92 | 17.50 | |
| | | 132 | 5660 | 15.57 | 17.50 | |
| | | 140 | 5700 | 15.73 | 17.50 | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | 16.13 | 17.50 | 98.16 |
| | | 116 | 5580 | 16.20 | 17.50 | |
| | | 132 | 5660 | 15.97 | 17.50 | |
| | | 140 | 5700 | 16.03 | 17.50 | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | 16.72 | 17.50 | 96.32 |
| 110 | | 5550 | 16.79 | 17.50 | | |
| 134 | | 5670 | 15.43 | 16.50 | | |
| 802.11ac-VHT20 MCS0 | 100 | 5500 | 16.22 | 17.50 | 98.16 | |
| | 116 | 5580 | 16.22 | 17.50 | | |
| | 132 | 5660 | 15.95 | 17.50 | | |
| | 140 | 5700 | 16.02 | 17.50 | | |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | 16.72 | 17.50 | 96.32 | |
| | 110 | 5550 | 16.77 | 17.50 | | |
| | 134 | 5670 | 15.45 | 17.00 | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 15.33 | 16.00 | 92.49 | |

| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a MCS0 | 149 | 5745 | 14.69 | 16.50 | 98.28 |
| | | 157 | 5785 | 15.35 | 16.50 | |
| | | 165 | 5825 | 15.56 | 16.50 | |
| | 802.11n-HT20 MCS0 | 149 | 5745 | 15.19 | 16.50 | 98.16 |
| | | 157 | 5785 | 15.61 | 16.50 | |
| | | 165 | 5825 | 15.94 | 16.50 | |
| | 802.11n-HT40 MCS0 | 151 | 5755 | 14.63 | 16.00 | 96.32 |
| | | 159 | 5795 | 15.55 | 16.00 | |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | 15.19 | 16.50 | 98.16 |
| 157 | | 5785 | 15.64 | 16.50 | | |
| 165 | | 5825 | 15.93 | 16.50 | | |
| 802.11ac-VHT40 MCS0 | 151 | 5755 | 14.61 | 16.00 | 96.32 | |
| | 159 | 5795 | 15.51 | 16.00 | | |
| 802.11ac-VHT80 MCS0 | 155 | 5775 | 14.82 | 16.00 | 92.49 | |



<Reduced Power Mode for P-Sensor On>

<5GHz WLAN>

| 5.5GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|-------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a 6Mbps | 100 | 5500 | 15.26 | 17.00 | 98.28 |
| | | 116 | 5580 | 15.30 | 17.00 | |
| | | 132 | 5660 | 14.72 | 16.50 | |
| | | 140 | 5700 | 15.07 | 17.00 | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | 15.76 | 17.00 | 98.16 |
| | | 116 | 5580 | 15.73 | 17.00 | |
| | | 132 | 5660 | 15.34 | 17.00 | |
| | | 140 | 5700 | 15.50 | 17.00 | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | 16.07 | 17.50 | 96.32 |
| 110 | | 5550 | 16.20 | 17.50 | | |
| 134 | | 5670 | 14.95 | 16.50 | | |
| 802.11ac-VHT20 MCS0 | 100 | 5500 | 15.74 | 17.00 | 98.16 | |
| | 116 | 5580 | 15.71 | 17.00 | | |
| | 132 | 5660 | 15.36 | 17.00 | | |
| | 140 | 5700 | 15.51 | 17.00 | | |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | 16.12 | 17.00 | 96.32 | |
| | 110 | 5550 | 16.18 | 17.00 | | |
| | 134 | 5670 | 14.92 | 16.50 | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 15.03 | 15.50 | 92.49 | |

| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| | 802.11a MCS0 | 149 | 5745 | 15.84 | 17.50 | 98.28 |
| | | 157 | 5785 | 16.30 | 17.50 | |
| | | 165 | 5825 | 16.63 | 17.50 | |
| | 802.11n-HT20 MCS0 | 149 | 5745 | 16.20 | 17.50 | 98.16 |
| | | 157 | 5785 | 16.74 | 17.50 | |
| | | 165 | 5825 | 17.10 | 17.50 | |
| | 802.11n-HT40 MCS0 | 151 | 5755 | 15.61 | 17.00 | 96.32 |
| | | 159 | 5795 | 16.69 | 17.00 | |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | 16.23 | 17.50 | 98.16 |
| 157 | | 5785 | 16.66 | 17.50 | | |
| 165 | | 5825 | 17.09 | 17.50 | | |
| 802.11ac-VHT40 MCS0 | 151 | 5755 | 15.62 | 17.00 | 96.32 | |
| | 159 | 5795 | 16.65 | 17.00 | | |
| 802.11ac-VHT80 MCS0 | 155 | 5775 | 15.91 | 17.00 | 92.49 | |



<Reduced Power Mode for Hotspot On>

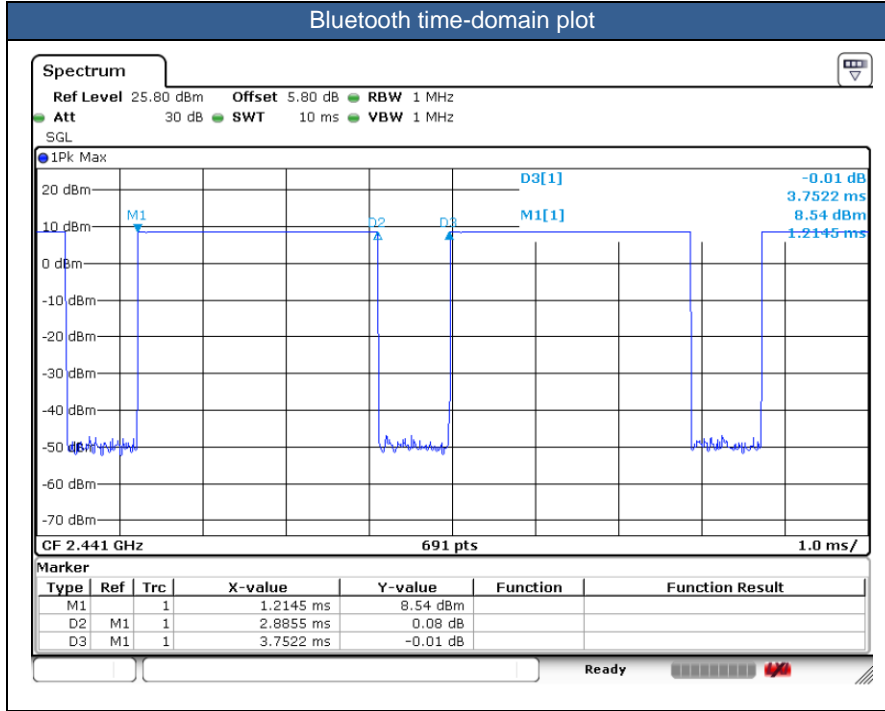
<5GHz WLAN>

| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | 802.11a MCS0 | 149 | 5745 | 15.84 | 17.50 | 98.28 |
| | | 157 | 5785 | 16.30 | 17.50 | |
| | | 165 | 5825 | 16.63 | 17.50 | |
| | 802.11n-HT20 MCS0 | 149 | 5745 | 16.20 | 17.50 | 98.16 |
| | | 157 | 5785 | 16.74 | 17.50 | |
| | | 165 | 5825 | 17.10 | 17.50 | |
| | 802.11n-HT40 MCS0 | 151 | 5755 | 15.61 | 17.00 | 96.32 |
| | | 159 | 5795 | 16.69 | 17.00 | |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | 16.23 | 17.50 | 98.16 |
| | | 157 | 5785 | 16.66 | 17.50 | |
| | | 165 | 5825 | 17.09 | 17.50 | |
| | 802.11ac-VHT40 MCS0 | 151 | 5755 | 15.62 | 17.00 | 96.32 |
| | | 159 | 5795 | 16.65 | 17.00 | |
| | 802.11ac-VHT80 MCS0 | 155 | 5775 | 15.91 | 17.00 | 92.49 |

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 76.90 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation

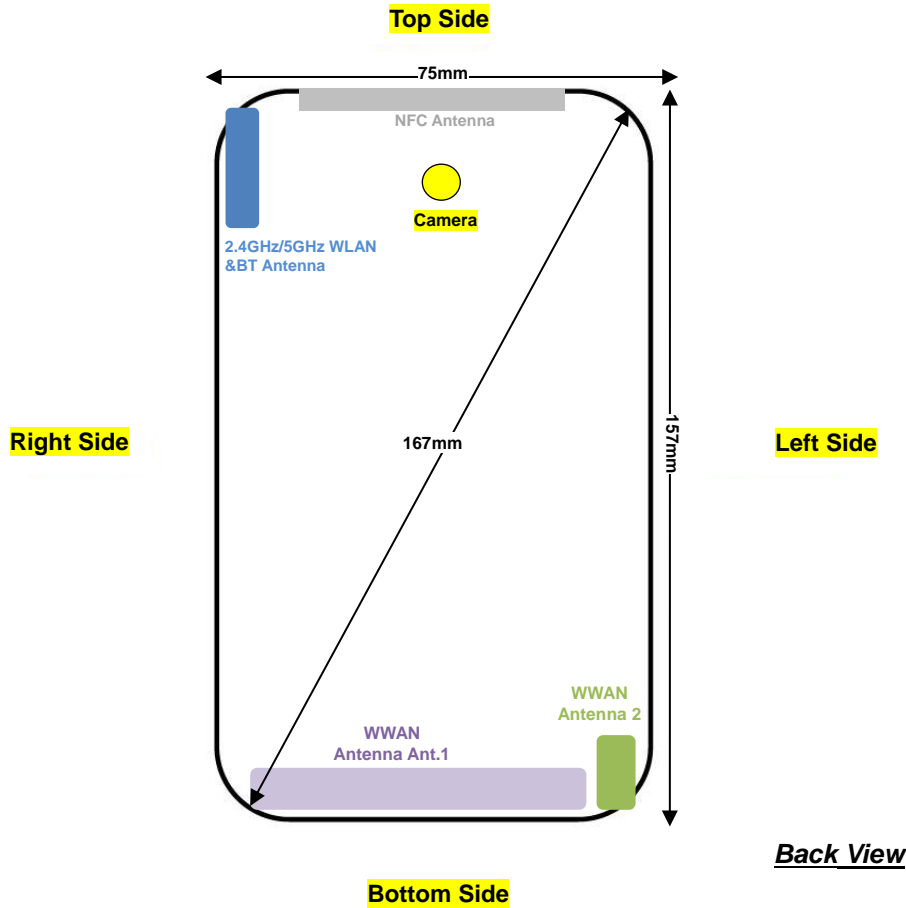


| Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---------------------|---------|-----------------|---------------------|
| | | | 1Mbps |
| BR/EDR | CH 00 | 2402 | 9.43 |
| | CH 39 | 2441 | 9.09 |
| | CH 78 | 2480 | 8.35 |
| Tune-up limit (dBm) | | | 10.00 |

| Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---------------------|---------|-----------------|---------------------|
| | | | GFSK |
| v4.2 LE | CH 00 | 2402 | 4.38 |
| | CH 19 | 2440 | 4.12 |
| | CH 39 | 2480 | 4.82 |
| Tune-up limit (dBm) | | | 6.00 |

| Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---------------------|---------|-----------------|---------------------|
| | | | GFSK |
| v5.0 LE | CH 00 | 2402 | 4.28 |
| | CH 19 | 2440 | 4.08 |
| | CH 39 | 2480 | 4.86 |
| Tune-up limit (dBm) | | | 6.00 |

14. Antenna Location



| Distance of the Antenna to the EUT surface/edge | | | | | | |
|---|--------|--------|----------|-------------|------------|-----------|
| Antennas | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Antenna 1 | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm | ≤ 25mm |
| WWAN Antenna 2 | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | >25mm | ≤ 25mm |
| 2.4GHz/5GHz WLAN & BT | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | >25mm |

| Positions for SAR tests; Hotspot mode | | | | | | |
|---------------------------------------|------|-------|----------|-------------|------------|-----------|
| Antennas | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Antenna 1 | Yes | Yes | No | Yes | Yes | Yes |
| WWAN Antenna 2 | Yes | Yes | No | Yes | No | Yes |
| 2.4GHz/5GHz WLAN & BT | Yes | Yes | Yes | No | Yes | No |

General Note:

- This device has two WWAN transmitter antennas. WWAN antenna 1 is located at the right side of bottom edge of the device and WWAN antenna 2 is located at the left side of bottom edge of the device which can refer to antenna location chapter. WWAN antenna 1 frequency bands include GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71, WWAN antenna 2 frequency bands include LTE B7 / B30 / B38 / B41.
- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) for power class 2 and 1:1.59 (62.9 %) for power class 3 were used perform testing and considering the theoretical duty cycle of 43.3% for power class 2 and 63.3% for power class 3 for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for power class 2 and 62.9% for power class 3 for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ for power class 2 and $63.3\%/62.9\% = 1.006$ for power class 3 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
4. Pre KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
5. When the phone is in talking mode and receiver worked, then power reduction will be implemented immediately at WLAN2.4/5.2/5.3/5.5/5.8GHz.
6. The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. When front or back body worn condition is detected, GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66 and WLAN5.5/5.8GHz reduced power will be active. (P-sensor can't work at detecting presence of the user's body at the four edges of the device.)
7. When hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41/ B66 and WLAN5.8GHz.
8. This device hotspot reduced power and P-sensor reduced power level are the same for GSM850, WCDMA B5, CDMA2000 BC0 / BC10, LTE B5 / B7 / B12 / B13 / B17 / B26 / B30 / LTE B38 / LTE B41 and WLAN5.8GHz. And for other bands are different.
9. For P-sensor reduced power level is higher than hotspot reduced power, so for front/back P-sensor SAR can represent conservatively for front/back hotspot SAR.
10. P-sensor can detect handheld state, GSM1900, WCDMA B2 / B4, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / LTE B41 (power class 2) / B66 for front/back/bottom sides of product specific 10g SAR condition reduced powers will be active.
11. This device has two WWAN transmitter antennas. WWAN antenna 1 is located at the right side of bottom edge of the device and WWAN antenna 2 is located at the left side of bottom edge of the device which can refer to antenna location chapter. WWAN antenna 1 frequency bands include GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71, WWAN antenna 2 frequency bands include LTE B7 / B30 / B38 / B41.
12. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN transmitter scaled to the maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B7 / B12



/ B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66, therefore product specific 10g SAR is necessary.

- b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
- c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

GSM Note:

- 1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 2 Tx slots for GSM850/GSM1900 are considered as the primary mode.
- 2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.
- 3. Power reduction which is triggered by hotspot mode/p-sensor on are implemented in GSM850/1900 band, for SAR testing EUT was set in reduced power mode and GPRS 2 Tx slots due to its highest frame-average power.

WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq 1/4$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $1/4$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

CDMA Note:

- 1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
- 2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
- 3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. This device supports HPUE for LTE band 41 with class 2 level, so HPUE SAR has been performed.
7. According to November 2017 TCB workshop, the following applied to intra-band contiguous UL CA only;
 - a. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC.
 - b. UL CA SAR is measured for each exposure condition in each frequency band using the highest SAR configuration tested in standalone LTE mode to establish the UL CA PCC. The SCC and subsequent CC must use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions.
 - c. When the SAR configuration tested in step b) has a maximum output power specification more than $\frac{1}{4}$ dB lower than the highest maximum output power conditions measured in the power measurements in step a) above and the reported SAR in step b) is larger than 1.2 W/kg, SAR measurement is also required for the configuration in step a)
 - d. All standalone SAR configurations with SAR > 1.2 W/kg must also be tested by applying the procedures in step b)
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band B17 / B2 / B5 / B38 / B4 SAR test was covered by B12 / B25 / B26 / B41 / B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. For head SAR testing, Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



15.1 Head SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | 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) |
|----------|---------|-----------------|---------------|------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 01 | GSM850 | GPRS 2 Tx slots | Right Cheek | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.09 | 0.286 | 0.358 |
| | GSM850 | GPRS 2 Tx slots | Right Tilted | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.02 | 0.152 | 0.190 |
| | GSM850 | GPRS 2 Tx slots | Left Cheek | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.08 | 0.205 | 0.256 |
| | GSM850 | GPRS 2 Tx slots | Left Tilted | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | -0.02 | 0.140 | 0.175 |
| | GSM850 | GPRS 2 Tx slots | Right Cheek | Full | 189 | 836.4 | 31.84 | 33.00 | 1.306 | 0.05 | 0.269 | 0.351 |
| | GSM850 | GPRS 2 Tx slots | Right Cheek | Full | 251 | 848.8 | 31.86 | 33.00 | 1.300 | 0.08 | 0.260 | 0.338 |
| | GSM1900 | GPRS 2 Tx slots | Right Cheek | Full | 661 | 1880 | 28.53 | 30.00 | 1.403 | -0.08 | 0.061 | 0.086 |
| | GSM1900 | GPRS 2 Tx slots | Right Tilted | Full | 661 | 1880 | 28.53 | 30.00 | 1.403 | -0.02 | 0.047 | 0.066 |
| 02 | GSM1900 | GPRS 2 Tx slots | Left Cheek | Full | 661 | 1880 | 28.53 | 30.00 | 1.403 | 0.09 | 0.080 | 0.113 |
| | GSM1900 | GPRS 2 Tx slots | Left Tilted | Full | 661 | 1880 | 28.53 | 30.00 | 1.403 | -0.03 | 0.052 | 0.073 |
| | GSM1900 | GPRS 2 Tx slots | Left Cheek | Full | 512 | 1850.2 | 28.29 | 30.00 | 1.483 | 0.05 | 0.072 | 0.107 |
| | GSM1900 | GPRS 2 Tx slots | Left Cheek | Full | 810 | 1909.8 | 28.53 | 30.00 | 1.403 | -0.09 | 0.066 | 0.092 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | 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) |
|----------|---------------|--------------|---------------|------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA Band V | RMC 12.2Kbps | Right Cheek | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | -0.01 | 0.260 | 0.263 |
| | WCDMA Band V | RMC 12.2Kbps | Right Tilted | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | -0.09 | 0.119 | 0.120 |
| | WCDMA Band V | RMC 12.2Kbps | Left Cheek | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | 0.01 | 0.172 | 0.174 |
| | WCDMA Band V | RMC 12.2Kbps | Left Tilted | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | -0.05 | 0.125 | 0.126 |
| | WCDMA Band V | RMC 12.2Kbps | Right Cheek | Full | 4182 | 836.4 | 23.90 | 24.00 | 1.023 | 0.02 | 0.193 | 0.197 |
| 03 | WCDMA Band V | RMC 12.2Kbps | Right Cheek | Full | 4233 | 846.6 | 23.88 | 24.00 | 1.028 | 0.14 | 0.282 | 0.290 |
| | WCDMA Band IV | RMC 12.2Kbps | Right Cheek | Full | 1513 | 1752.6 | 23.92 | 24.00 | 1.019 | -0.01 | 0.160 | 0.163 |
| | WCDMA Band IV | RMC 12.2Kbps | Right Tilted | Full | 1513 | 1752.6 | 23.92 | 24.00 | 1.019 | 0.01 | 0.093 | 0.095 |
| | WCDMA Band IV | RMC 12.2Kbps | Left Cheek | Full | 1513 | 1752.6 | 23.92 | 24.00 | 1.019 | -0.02 | 0.186 | 0.189 |
| | WCDMA Band IV | RMC 12.2Kbps | Left Tilted | Full | 1513 | 1752.6 | 23.92 | 24.00 | 1.019 | 0.02 | 0.104 | 0.106 |
| | WCDMA Band IV | RMC 12.2Kbps | Left Cheek | Full | 1312 | 1712.4 | 23.73 | 24.00 | 1.064 | 0.05 | 0.195 | 0.208 |
| 04 | WCDMA Band IV | RMC 12.2Kbps | Left Cheek | Full | 1413 | 1732.6 | 23.81 | 24.00 | 1.045 | -0.06 | 0.232 | 0.242 |
| | WCDMA Band II | RMC 12.2Kbps | Right Cheek | Full | 9262 | 1852.4 | 23.90 | 24.00 | 1.023 | -0.03 | 0.122 | 0.125 |
| | WCDMA Band II | RMC 12.2Kbps | Right Tilted | Full | 9262 | 1852.4 | 23.90 | 24.00 | 1.023 | 0.06 | 0.080 | 0.082 |
| 05 | WCDMA Band II | RMC 12.2Kbps | Left Cheek | Full | 9262 | 1852.4 | 23.90 | 24.00 | 1.023 | 0.02 | 0.134 | 0.137 |
| | WCDMA Band II | RMC 12.2Kbps | Left Tilted | Full | 9262 | 1852.4 | 23.90 | 24.00 | 1.023 | 0.1 | 0.087 | 0.089 |
| | WCDMA Band II | RMC 12.2Kbps | Left Cheek | Full | 9400 | 1880 | 23.82 | 24.00 | 1.042 | 0.08 | 0.131 | 0.137 |
| | WCDMA Band II | RMC 12.2Kbps | Left Cheek | Full | 9538 | 1907.6 | 23.84 | 24.00 | 1.038 | -0.02 | 0.108 | 0.112 |



<CDMA2000 SAR>

| Plot No. | Band | Mode | Test Position | 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) |
|----------|---------------|----------|---------------|------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | CDMA2000 BC10 | RC3 SO55 | Right Cheek | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | 0.06 | 0.287 | 0.305 |
| | CDMA2000 BC10 | RC3 SO55 | Right Tilted | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | -0.02 | 0.140 | 0.149 |
| | CDMA2000 BC10 | RC3 SO55 | Left Cheek | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | -0.11 | 0.183 | 0.195 |
| | CDMA2000 BC10 | RC3 SO55 | Left Tilted | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | 0.02 | 0.136 | 0.145 |
| | CDMA2000 BC10 | RC3 SO55 | Right Cheek | Full | 580 | 820.5 | 25.22 | 25.50 | 1.067 | 0.04 | 0.290 | 0.309 |
| 06 | CDMA2000 BC10 | RC3 SO55 | Right Cheek | Full | 684 | 823.1 | 25.18 | 25.50 | 1.076 | -0.01 | 0.302 | 0.325 |
| 07 | CDMA2000 BC0 | RC3 SO55 | Right Cheek | Full | 1013 | 824.7 | 25.07 | 25.50 | 1.104 | 0.05 | 0.287 | 0.317 |
| | CDMA2000 BC0 | RC3 SO55 | Right Tilted | Full | 1013 | 824.7 | 25.07 | 25.50 | 1.104 | 0.01 | 0.138 | 0.152 |
| | CDMA2000 BC0 | RC3 SO55 | Left Cheek | Full | 1013 | 824.7 | 25.07 | 25.50 | 1.104 | 0.05 | 0.176 | 0.194 |
| | CDMA2000 BC0 | RC3 SO55 | Left Tilted | Full | 1013 | 824.7 | 25.07 | 25.50 | 1.104 | -0.09 | 0.130 | 0.144 |
| | CDMA2000 BC0 | RC3 SO55 | Right Cheek | Full | 384 | 836.52 | 25.00 | 25.50 | 1.122 | 0.02 | 0.263 | 0.295 |
| | CDMA2000 BC0 | RC3 SO55 | Right Cheek | Full | 777 | 848.31 | 24.99 | 25.50 | 1.125 | -0.06 | 0.259 | 0.291 |
| | CDMA2000 BC1 | RC3 SO55 | Right Cheek | Full | 25 | 1851.25 | 24.99 | 25.50 | 1.125 | 0.08 | 0.101 | 0.114 |
| | CDMA2000 BC1 | RC3 SO55 | Right Tilted | Full | 25 | 1851.25 | 24.99 | 25.50 | 1.125 | -0.03 | 0.063 | 0.071 |
| 08 | CDMA2000 BC1 | RC3 SO55 | Left Cheek | Full | 25 | 1851.25 | 24.99 | 25.50 | 1.125 | 0.09 | 0.155 | 0.174 |
| | CDMA2000 BC1 | RC3 SO55 | Left Tilted | Full | 25 | 1851.25 | 24.99 | 25.50 | 1.125 | 0.06 | 0.099 | 0.112 |
| | CDMA2000 BC1 | RC3 SO55 | Left Cheek | Full | 600 | 1880 | 24.94 | 25.50 | 1.138 | 0.05 | 0.138 | 0.157 |
| | CDMA2000 BC1 | RC3 SO55 | Left Cheek | Full | 1175 | 1908.75 | 24.96 | 25.50 | 1.132 | -0.04 | 0.139 | 0.157 |



<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 09 | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Cheek | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.01 | 0.104 | 0.123 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Cheek | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | -0.05 | 0.071 | 0.083 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Tilted | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.05 | <0.001 | <0.001 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Tilted | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.01 | <0.001 | <0.001 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.09 | 0.078 | 0.092 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Cheek | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.05 | 0.051 | 0.060 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Tilted | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | -0.12 | <0.001 | <0.001 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Tilted | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.03 | <0.001 | <0.001 |
| 10 | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Cheek | Full | 23095 | 707.5 | 22.68 | 24.00 | 1.355 | 0.02 | 0.216 | 0.293 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Cheek | Full | 23095 | 707.5 | 21.82 | 23.00 | 1.312 | -0.02 | 0.120 | 0.157 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Tilted | Full | 23095 | 707.5 | 22.68 | 24.00 | 1.355 | 0.16 | 0.105 | 0.142 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Tilted | Full | 23095 | 707.5 | 21.82 | 23.00 | 1.312 | 0.03 | 0.058 | 0.077 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Cheek | Full | 23095 | 707.5 | 22.68 | 24.00 | 1.355 | 0.17 | 0.163 | 0.221 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Cheek | Full | 23095 | 707.5 | 21.82 | 23.00 | 1.312 | 0.02 | 0.092 | 0.120 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Tilted | Full | 23095 | 707.5 | 22.68 | 24.00 | 1.355 | 0.01 | 0.096 | 0.130 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Tilted | Full | 23095 | 707.5 | 21.82 | 23.00 | 1.312 | 0.13 | 0.053 | 0.069 |
| 11 | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Cheek | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | 0.05 | 0.232 | 0.302 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Cheek | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | 0.03 | 0.146 | 0.193 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Tilted | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | 0.04 | 0.106 | 0.138 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Tilted | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | 0.08 | 0.067 | 0.089 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Cheek | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | 0.11 | 0.151 | 0.197 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Cheek | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | -0.16 | 0.094 | 0.124 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Tilted | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | 0.07 | 0.083 | 0.108 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Tilted | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | 0.04 | 0.053 | 0.070 |
| 12 | LTE Band 26 | 15M | QPSK | 1 | 0 | Right Cheek | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.05 | 0.268 | 0.334 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Right Cheek | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.13 | 0.154 | 0.194 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Right Tilted | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.19 | 0.122 | 0.152 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Right Tilted | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | -0.14 | 0.066 | 0.083 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Left Cheek | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.03 | 0.172 | 0.214 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Left Cheek | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.04 | 0.097 | 0.123 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Left Tilted | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.15 | 0.089 | 0.111 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Left Tilted | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.19 | 0.051 | 0.064 |
| | LTE Band 5 | 10M | QPSK | 1 | 0 | Right Cheek | Full | 20476(PCC) + 20575(SCC) | 831.6(PCC) + 841.5(SCC) | 23.50 | 24.00 | 1.122 | -0.03 | 0.250 | 0.281 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Cheek | Full | 132572 | 1770 | 23.02 | 24.00 | 1.253 | 0.13 | 0.148 | 0.185 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Right Cheek | Full | 132572 | 1770 | 22.44 | 23.00 | 1.138 | 0.06 | 0.107 | 0.122 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Tilted | Full | 132572 | 1770 | 23.02 | 24.00 | 1.253 | -0.11 | 0.082 | 0.103 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Right Tilted | Full | 132572 | 1770 | 22.44 | 23.00 | 1.138 | -0.07 | 0.069 | 0.078 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 132572 | 1770 | 23.02 | 24.00 | 1.253 | 0.08 | 0.216 | 0.271 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Left Cheek | Full | 132572 | 1770 | 22.44 | 23.00 | 1.138 | 0.01 | 0.129 | 0.147 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Tilted | Full | 132572 | 1770 | 23.02 | 24.00 | 1.253 | 0.01 | 0.108 | 0.135 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Left Tilted | Full | 132572 | 1770 | 22.44 | 23.00 | 1.138 | 0.09 | 0.067 | 0.076 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 132072 | 1720 | 22.38 | 24.00 | 1.452 | 0.04 | 0.226 | 0.328 |
| 13 | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 132322 | 1745 | 22.79 | 24.00 | 1.321 | 0.04 | 0.251 | 0.332 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Cheek | Full | 26340 | 1880 | 23.41 | 24.00 | 1.146 | 0.09 | 0.093 | 0.106 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Cheek | Full | 26340 | 1880 | 22.15 | 23.00 | 1.216 | -0.03 | 0.064 | 0.078 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Tilted | Full | 26340 | 1880 | 23.41 | 24.00 | 1.146 | 0.09 | 0.056 | 0.064 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Tilted | Full | 26340 | 1880 | 22.15 | 23.00 | 1.216 | 0.07 | 0.040 | 0.048 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 26340 | 1880 | 23.41 | 24.00 | 1.146 | 0.19 | 0.142 | 0.163 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Cheek | Full | 26340 | 1880 | 22.15 | 23.00 | 1.216 | 0.15 | 0.096 | 0.116 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Tilted | Full | 26340 | 1880 | 23.41 | 24.00 | 1.146 | 0.06 | 0.096 | 0.110 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Tilted | Full | 26340 | 1880 | 22.15 | 23.00 | 1.216 | 0.02 | 0.064 | 0.078 |
| 14 | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 26140 | 1860 | 23.01 | 24.00 | 1.256 | 0.01 | 0.137 | 0.172 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 26590 | 1905 | 23.11 | 24.00 | 1.227 | -0.09 | 0.121 | 0.149 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Cheek | Full | 27710 | 2310 | 22.70 | 24.00 | 1.349 | 0.01 | 0.212 | 0.286 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Cheek | Full | 27710 | 2310 | 21.67 | 23.00 | 1.358 | -0.06 | 0.113 | 0.153 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Tilted | Full | 27710 | 2310 | 22.70 | 24.00 | 1.349 | -0.15 | 0.126 | 0.170 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Tilted | Full | 27710 | 2310 | 21.67 | 23.00 | 1.358 | 0.15 | 0.071 | 0.097 |
| 15 | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Cheek | Full | 27710 | 2310 | 22.70 | 24.00 | 1.349 | 0.07 | 0.242 | 0.326 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Cheek | Full | 27710 | 2310 | 21.67 | 23.00 | 1.358 | 0.09 | 0.136 | 0.185 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Tilted | Full | 27710 | 2310 | 22.70 | 24.00 | 1.349 | 0.04 | 0.111 | 0.150 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Tilted | Full | 27710 | 2310 | 21.67 | 23.00 | 1.358 | 0.08 | 0.063 | 0.086 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Right Cheek | Full | 21350 | 2560 | 22.82 | 24.00 | 1.312 | 0.08 | 0.143 | 0.188 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Right Cheek | Full | 21350 | 2560 | 21.79 | 23.00 | 1.321 | 0.02 | 0.114 | 0.151 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Right Tilted | Full | 21350 | 2560 | 22.82 | 24.00 | 1.312 | -0.09 | 0.096 | 0.126 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Right Tilted | Full | 21350 | 2560 | 21.79 | 23.00 | 1.321 | 0.03 | 0.087 | 0.115 |
| 16 | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 21350 | 2560 | 22.82 | 24.00 | 1.312 | 0.06 | 0.185 | 0.243 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Left Cheek | Full | 21350 | 2560 | 21.79 | 23.00 | 1.321 | 0.02 | 0.149 | 0.197 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Tilted | Full | 21350 | 2560 | 22.82 | 24.00 | 1.312 | 0.01 | 0.056 | 0.074 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Left Tilted | Full | 21350 | 2560 | 21.79 | 23.00 | 1.321 | -0.03 | 0.050 | 0.066 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 20850 | 2510 | 22.60 | 24.00 | 1.380 | 0.09 | 0.162 | 0.224 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 21100 | 2535 | 22.60 | 24.00 | 1.380 | -0.02 | 0.166 | 0.229 |



<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Power Mode | Power Class | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|------------|-------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Right Cheek | Full | 3 | 40185 | 2549.5 | 23.50 | 24.00 | 1.122 | 62.9 | 1.006 | 0.06 | 0.084 | 0.095 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Right Cheek | Full | 3 | 40185 | 2549.5 | 21.51 | 23.00 | 1.409 | 62.9 | 1.006 | 0.05 | 0.057 | 0.081 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Right Tilted | Full | 3 | 40185 | 2549.5 | 23.50 | 24.00 | 1.122 | 62.9 | 1.006 | 0.03 | 0.059 | 0.067 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Right Tilted | Full | 3 | 40185 | 2549.5 | 21.51 | 23.00 | 1.409 | 62.9 | 1.006 | -0.06 | 0.044 | 0.062 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 40185 | 2549.5 | 23.50 | 24.00 | 1.122 | 62.9 | 1.006 | 0.06 | 0.115 | 0.130 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Left Cheek | Full | 3 | 40185 | 2549.5 | 21.51 | 23.00 | 1.409 | 62.9 | 1.006 | 0.02 | 0.073 | 0.103 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Tilted | Full | 3 | 40185 | 2549.5 | 23.50 | 24.00 | 1.122 | 62.9 | 1.006 | -0.05 | 0.035 | 0.039 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Left Tilted | Full | 3 | 40185 | 2549.5 | 21.51 | 23.00 | 1.409 | 62.9 | 1.006 | 0.02 | 0.028 | 0.039 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 39750 | 2506 | 23.43 | 24.00 | 1.140 | 62.9 | 1.006 | 0.07 | 0.099 | 0.114 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 40620 | 2593 | 23.46 | 24.00 | 1.132 | 62.9 | 1.006 | -0.03 | 0.109 | 0.124 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 41055 | 2636.5 | 23.35 | 24.00 | 1.161 | 62.9 | 1.006 | 0.06 | 0.115 | 0.134 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 41490 | 2680 | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | 0.14 | 0.130 | 0.151 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 3 | 41490(PCC) + 41292(SCC) | 2680(PCC) + 2660.2(SCC) | 23.47 | 24.00 | 1.130 | 62.9 | 1.006 | 0.07 | 0.119 | 0.135 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 2 | 40185 | 2549.5 | 26.58 | 27.50 | 1.236 | 42.9 | 1.009 | -0.08 | 0.179 | 0.223 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 2 | 39750 | 2506 | 26.27 | 27.50 | 1.327 | 42.9 | 1.009 | 0.03 | 0.160 | 0.214 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 2 | 40620 | 2593 | 26.52 | 27.50 | 1.253 | 42.9 | 1.009 | -0.07 | 0.174 | 0.220 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 2 | 41055 | 2636.5 | 26.53 | 27.50 | 1.250 | 42.9 | 1.009 | -0.02 | 0.194 | 0.245 |
| 17 | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Cheek | Full | 2 | 41490 | 2680 | 26.52 | 27.50 | 1.253 | 42.9 | 1.009 | 0.11 | 0.198 | 0.250 |

<WLAN 2.4GHz SAR>

| Plot No. | Band | Mode | Test Position | 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 | Right Cheek | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | | 0.348 | | |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | | 0.240 | | |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | 0.13 | 1.527 | 0.857 | 0.946 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | 0.15 | 0.795 | 0.429 | 0.474 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | Receiver on | 1 | 2412 | 16.88 | 18.00 | 1.294 | 100 | 1.000 | -0.09 | | 0.513 | 0.664 |
| 18 | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | Receiver on | 11 | 2462 | 17.98 | 19.00 | 1.265 | 100 | 1.000 | -0.17 | | 0.793 | 1.003 |



<WLAN 5GHz SAR>

| Plot No. | Band | Mode | Test Position | 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) |
|----------|-------------|-------------------|---------------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------|------------------------|------------------------|
| | WLAN5.3GHz | 802.11a 6Mbps | Right Cheek | Receiver on | 56 | 5280 | 17.09 | 17.50 | 1.099 | 98.28 | 1.018 | | 0.652 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Right Tilted | Receiver on | 56 | 5280 | 17.09 | 17.50 | 1.099 | 98.28 | 1.018 | | 0.531 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 56 | 5280 | 17.09 | 17.50 | 1.099 | 98.28 | 1.018 | -0.02 | 1.723 | 0.726 | 0.812 |
| | WLAN5.3GHz | 802.11a 6Mbps | Left Tilted | Receiver on | 56 | 5280 | 17.09 | 17.50 | 1.099 | 98.28 | 1.018 | -0.03 | 1.005 | 0.465 | 0.520 |
| | WLAN5.3GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 52 | 5260 | 16.76 | 17.50 | 1.186 | 98.28 | 1.018 | -0.01 | | 0.736 | 0.888 |
| 19 | WLAN5.3GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 64 | 5320 | 16.46 | 17.50 | 1.271 | 98.28 | 1.018 | 0.07 | | 0.861 | 1.114 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Cheek | Receiver on | 110 | 5550 | 16.79 | 17.50 | 1.178 | 96.32 | 1.038 | | 0.602 | | |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Right Tilted | Receiver on | 110 | 5550 | 16.79 | 17.50 | 1.178 | 96.32 | 1.038 | | 0.529 | | |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek | Receiver on | 110 | 5550 | 16.79 | 17.50 | 1.178 | 96.32 | 1.038 | 0.02 | 2.219 | 0.836 | 1.022 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Tilted | Receiver on | 110 | 5550 | 16.79 | 17.50 | 1.178 | 96.32 | 1.038 | 0.09 | 1.584 | 0.615 | 0.752 |
| 20 | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek | Receiver on | 102 | 5510 | 16.72 | 17.50 | 1.196 | 96.32 | 1.038 | -0.09 | | 0.917 | 1.138 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Left Cheek | Receiver on | 134 | 5670 | 15.43 | 16.50 | 1.279 | 96.32 | 1.038 | 0.16 | | 0.650 | 0.863 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Right Cheek | Receiver on | 165 | 5825 | 15.56 | 16.50 | 1.242 | 98.28 | 1.018 | | 0.456 | | |
| | WLAN 5.8GHz | 802.11a 6Mbps | Right Tilted | Receiver on | 165 | 5825 | 15.56 | 16.50 | 1.242 | 98.28 | 1.018 | | 0.461 | | |
| | WLAN 5.8GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 165 | 5825 | 15.56 | 16.50 | 1.242 | 98.28 | 1.018 | -0.06 | 1.173 | 0.663 | 0.838 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Left Tilted | Receiver on | 165 | 5825 | 15.56 | 16.50 | 1.242 | 98.28 | 1.018 | -0.05 | 1.028 | 0.354 | 0.447 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 157 | 5785 | 15.35 | 16.50 | 1.305 | 98.28 | 1.018 | 0.04 | | 0.591 | 0.785 |
| 21 | WLAN 5.8GHz | 802.11a 6Mbps | Left Cheek | Receiver on | 149 | 5745 | 14.69 | 16.50 | 1.519 | 98.28 | 1.018 | -0.17 | | 0.547 | 0.846 |

<Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | 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) |
|----------|-----------|-------|---------------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | Bluetooth | 1Mbps | Right Cheek | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.16 | 0.019 | 0.024 |
| | Bluetooth | 1Mbps | Right Tilted | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | -0.01 | 0.021 | 0.026 |
| | Bluetooth | 1Mbps | Left Cheek | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.04 | 0.056 | 0.069 |
| | Bluetooth | 1Mbps | Left Tilted | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | -0.05 | 0.031 | 0.038 |
| | Bluetooth | 1Mbps | Left Cheek | Full | 39 | 2441 | 9.09 | 10.00 | 1.233 | 76.9 | 1.083 | -0.03 | 0.058 | 0.078 |
| 22 | Bluetooth | 1Mbps | Left Cheek | Full | 78 | 2480 | 8.35 | 10.00 | 1.462 | 76.9 | 1.083 | -0.06 | 0.061 | 0.096 |



15.2 Hotspot SAR

<GSM 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 | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-----------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | GSM850 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | -0.06 | 0.922 | 1.066 |
| | GSM850 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 189 | 836.4 | 29.35 | 30.00 | 1.161 | 0.09 | 0.703 | 0.816 |
| | GSM850 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 251 | 848.8 | 29.28 | 30.00 | 1.180 | 0.18 | 0.739 | 0.872 |
| 23 | GSM850 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | 0.05 | 1.240 | 1.434 |
| | GSM850 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 189 | 836.4 | 29.35 | 30.00 | 1.161 | -0.04 | 1.140 | 1.324 |
| | GSM850 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 251 | 848.8 | 29.28 | 30.00 | 1.180 | 0.04 | 1.150 | 1.357 |
| | GSM850 | GPRS 2 Tx slots | Left Side | 5 | Hotspot On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | -0.08 | 0.105 | 0.121 |
| | GSM850 | GPRS 2 Tx slots | Right Side | 5 | Hotspot On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | -0.02 | 0.330 | 0.382 |
| | GSM850 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | 0.09 | 0.717 | 0.829 |
| | GSM850 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 189 | 836.4 | 29.35 | 30.00 | 1.161 | 0.08 | 0.732 | 0.850 |
| | GSM850 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 251 | 848.8 | 29.28 | 30.00 | 1.180 | 0.06 | 0.696 | 0.822 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 661 | 1880 | 25.19 | 26.00 | 1.205 | -0.17 | 0.744 | 0.897 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 512 | 1850.2 | 25.15 | 26.00 | 1.216 | 0.05 | 0.782 | 0.951 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | Hotspot On | 810 | 1909.8 | 25.14 | 26.00 | 1.219 | 0.01 | 0.693 | 0.845 |
| 24 | GSM1900 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 661 | 1880 | 25.19 | 26.00 | 1.205 | 0.09 | 1.130 | 1.362 |
| | GSM1900 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 512 | 1850.2 | 25.15 | 26.00 | 1.216 | 0.07 | 0.955 | 1.161 |
| | GSM1900 | GPRS 2 Tx slots | Back | 5 | Hotspot On | 810 | 1909.8 | 25.14 | 26.00 | 1.219 | 0.04 | 0.721 | 0.879 |
| | GSM1900 | GPRS 2 Tx slots | Left Side | 5 | Hotspot On | 661 | 1880 | 23.18 | 24.50 | 1.355 | 0.09 | 0.053 | 0.071 |
| | GSM1900 | GPRS 2 Tx slots | Right Side | 5 | Hotspot On | 661 | 1880 | 23.18 | 24.50 | 1.355 | 0.07 | 0.038 | 0.051 |
| | GSM1900 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 661 | 1880 | 23.18 | 24.50 | 1.355 | 0.01 | 0.836 | 1.133 |
| | GSM1900 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 512 | 1850.2 | 23.15 | 24.50 | 1.365 | 0.02 | 0.942 | 1.285 |
| | GSM1900 | GPRS 2 Tx slots | Bottom Side | 5 | Hotspot On | 810 | 1909.8 | 23.14 | 24.50 | 1.368 | 0.04 | 0.818 | 1.119 |



<WCDMA 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 | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|--------------|---------------|----------|------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA Band V | RMC 12.2Kbps | Front | 5 | Hotspot On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | -0.04 | 0.723 | 0.731 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Hotspot On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | 0.06 | 1.200 | 1.214 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Hotspot On | 4182 | 836.4 | 20.90 | 21.00 | 1.023 | 0.03 | 1.270 | 1.300 |
| 25 | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Hotspot On | 4233 | 846.6 | 20.91 | 21.00 | 1.021 | 0.06 | 1.370 | 1.399 |
| | WCDMA Band V | RMC 12.2Kbps | Left Side | 5 | Hotspot On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | 0.06 | 0.099 | 0.100 |
| | WCDMA Band V | RMC 12.2Kbps | Right Side | 5 | Hotspot On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | 0.03 | 0.325 | 0.329 |
| | WCDMA Band V | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | 0.07 | 0.616 | 0.623 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | Hotspot On | 1513 | 1752.6 | 16.49 | 16.50 | 1.002 | 0 | 1.040 | 1.042 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | Hotspot On | 1312 | 1712.4 | 16.42 | 16.50 | 1.019 | 0.16 | 1.050 | 1.070 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | Hotspot On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | 0.04 | 1.050 | 1.060 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Hotspot On | 1513 | 1752.6 | 16.49 | 16.50 | 1.002 | 0.05 | 1.210 | 1.213 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Hotspot On | 1312 | 1712.4 | 16.42 | 16.50 | 1.019 | 0.08 | 1.340 | 1.365 |
| 26 | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Hotspot On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | 0.12 | 1.370 | 1.383 |
| | WCDMA Band IV | RMC 12.2Kbps | Left Side | 5 | Hotspot On | 1513 | 1752.6 | 15.38 | 15.50 | 1.028 | 0.09 | 0.111 | 0.114 |
| | WCDMA Band IV | RMC 12.2Kbps | Right Side | 5 | Hotspot On | 1513 | 1752.6 | 15.38 | 15.50 | 1.028 | 0.09 | 0.078 | 0.080 |
| | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 1513 | 1752.6 | 15.38 | 15.50 | 1.028 | 0.03 | 1.200 | 1.234 |
| | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 1312 | 1712.4 | 15.27 | 15.50 | 1.054 | -0.06 | 1.120 | 1.181 |
| | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 1413 | 1732.6 | 15.30 | 15.50 | 1.047 | 0.04 | 1.260 | 1.319 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | Hotspot On | 9262 | 1852.4 | 17.81 | 18.00 | 1.045 | 0.16 | 0.786 | 0.821 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | Hotspot On | 9400 | 1880 | 17.80 | 18.00 | 1.047 | 0.02 | 0.810 | 0.848 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | Hotspot On | 9538 | 1907.6 | 17.79 | 18.00 | 1.050 | 0.07 | 0.718 | 0.754 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 5 | Hotspot On | 9262 | 1852.4 | 17.81 | 18.00 | 1.045 | 0.07 | 1.090 | 1.139 |
| 27 | WCDMA Band II | RMC 12.2Kbps | Back | 5 | Hotspot On | 9400 | 1880 | 17.80 | 18.00 | 1.047 | 0.06 | 1.170 | 1.225 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 5 | Hotspot On | 9538 | 1907.6 | 17.79 | 18.00 | 1.050 | -0.07 | 1.040 | 1.092 |
| | WCDMA Band II | RMC 12.2Kbps | Left Side | 5 | Hotspot On | 9262 | 1852.4 | 15.93 | 16.00 | 1.016 | 0.01 | 0.056 | 0.057 |
| | WCDMA Band II | RMC 12.2Kbps | Right Side | 5 | Hotspot On | 9262 | 1852.4 | 15.93 | 16.00 | 1.016 | 0.18 | 0.057 | 0.058 |
| | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 9262 | 1852.4 | 15.93 | 16.00 | 1.016 | 0.08 | 1.010 | 1.026 |
| | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 9400 | 1880 | 15.89 | 16.00 | 1.026 | 0.07 | 1.140 | 1.169 |
| | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 5 | Hotspot On | 9538 | 1907.6 | 15.88 | 16.00 | 1.028 | 0.09 | 0.956 | 0.983 |



<CDMA2000 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 | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------------|---------------|----------|------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | CDMA2000 BC10 | RTAP 153.6Kbps | Front | 5 | Hotspot On | 476 | 817.9 | 21.71 | 22.00 | 1.069 | -0.13 | 0.647 | 0.692 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 476 | 817.9 | 21.71 | 22.00 | 1.069 | 0.01 | 0.998 | 1.067 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 580 | 820.5 | 21.70 | 22.00 | 1.072 | 0.04 | 1.000 | 1.072 |
| 28 | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 684 | 823.1 | 21.65 | 22.00 | 1.084 | 0.07 | 1.040 | 1.127 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Left Side | 5 | Hotspot On | 476 | 817.9 | 21.71 | 22.00 | 1.069 | 0.03 | 0.088 | 0.094 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Right Side | 5 | Hotspot On | 476 | 817.9 | 21.71 | 22.00 | 1.069 | 0.03 | 0.279 | 0.298 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Bottom Side | 5 | Hotspot On | 476 | 817.9 | 21.71 | 22.00 | 1.069 | 0.03 | 0.579 | 0.619 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Front | 5 | Hotspot On | 1013 | 824.7 | 21.56 | 22.00 | 1.107 | 0.08 | 0.647 | 0.716 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 1013 | 824.7 | 21.56 | 22.00 | 1.107 | 0.08 | 1.010 | 1.118 |
| 29 | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 384 | 836.52 | 21.51 | 22.00 | 1.119 | 0.03 | 1.070 | 1.198 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 777 | 848.31 | 21.50 | 22.00 | 1.122 | 0.1 | 1.060 | 1.189 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Left Side | 5 | Hotspot On | 1013 | 824.7 | 21.56 | 22.00 | 1.107 | -0.01 | 0.090 | 0.100 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Right Side | 5 | Hotspot On | 1013 | 824.7 | 21.56 | 22.00 | 1.107 | 0 | 0.285 | 0.315 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Bottom Side | 5 | Hotspot On | 1013 | 824.7 | 21.56 | 22.00 | 1.107 | -0.03 | 0.581 | 0.643 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 5 | Hotspot On | 600 | 1880 | 19.30 | 19.50 | 1.047 | 0.07 | 0.939 | 0.983 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 5 | Hotspot On | 25 | 1851.25 | 19.24 | 19.50 | 1.062 | 0.05 | 0.882 | 0.936 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 5 | Hotspot On | 1175 | 1908.75 | 19.12 | 19.50 | 1.091 | 0.15 | 0.875 | 0.955 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 600 | 1880 | 19.30 | 19.50 | 1.047 | 0.03 | 1.300 | 1.361 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 25 | 1851.25 | 19.24 | 19.50 | 1.062 | -0.02 | 1.240 | 1.317 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 5 | Hotspot On | 1175 | 1908.75 | 19.12 | 19.50 | 1.091 | 0.11 | 1.220 | 1.332 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Left Side | 5 | Hotspot On | 600 | 1880 | 17.70 | 18.00 | 1.072 | 0.06 | 0.072 | 0.077 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Right Side | 5 | Hotspot On | 600 | 1880 | 17.70 | 18.00 | 1.072 | 0.09 | 0.058 | 0.062 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 5 | Hotspot On | 600 | 1880 | 17.70 | 18.00 | 1.072 | 0.08 | 1.300 | 1.393 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 5 | Hotspot On | 25 | 1851.25 | 17.64 | 18.00 | 1.086 | 0.03 | 1.270 | 1.380 |
| 30 | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 5 | Hotspot On | 1175 | 1908.75 | 17.64 | 18.00 | 1.086 | 0.06 | 1.320 | 1.434 |



<FDD LTE SAR>

| Plot 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 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Front | 5 | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.03 | 0.450 | 0.532 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Front | 5 | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.02 | 0.320 | 0.373 |
| 31 | LTE Band 71 | 20M | QPSK | 1 | 0 | Back | 5 | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.09 | 0.759 | 0.898 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Back | 5 | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | -0.03 | 0.523 | 0.610 |
| | LTE Band 71 | 20M | QPSK | 100 | 0 | Back | 5 | Full | 133322 | 683 | 22.27 | 23.00 | 1.183 | -0.12 | 0.541 | 0.640 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Side | 5 | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.05 | 0.157 | 0.186 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Side | 5 | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.08 | 0.116 | 0.135 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Side | 5 | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.01 | 0.293 | 0.347 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Side | 5 | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.12 | 0.172 | 0.201 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.03 | 0.573 | 0.678 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | -0.02 | 0.368 | 0.429 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.18 | 0.595 | 0.732 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Front | 5 | Hotspot On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | -0.04 | 0.515 | 0.612 |
| 32 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.04 | 0.907 | 1.116 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 5 | Hotspot On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | 0.01 | 0.851 | 1.011 |
| | LTE Band 12 | 10M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 23095 | 707.5 | 21.21 | 22.00 | 1.199 | 0.04 | 0.841 | 1.009 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | 0.03 | 0.154 | 0.189 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Side | 5 | Hotspot On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | -0.11 | 0.140 | 0.166 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Side | 5 | Hotspot On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.03 | 0.309 | 0.380 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Side | 5 | Hotspot On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | -0.12 | 0.277 | 0.329 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.01 | 0.465 | 0.572 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Bottom Side | 5 | Hotspot On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | -0.08 | 0.420 | 0.499 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.01 | 0.681 | 0.813 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 5 | Hotspot On | 23230 | 782 | 21.26 | 22.00 | 1.186 | -0.17 | 0.663 | 0.786 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 23230 | 782 | 21.24 | 22.00 | 1.191 | 0.01 | 0.658 | 0.784 |
| 33 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 23230 | 782 | 21.23 | 22.00 | 1.194 | 0.04 | 1.040 | 1.242 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 5 | Hotspot On | 23230 | 782 | 21.26 | 22.00 | 1.186 | -0.06 | 1.030 | 1.221 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 23230 | 782 | 21.24 | 22.00 | 1.191 | -0.09 | 1.040 | 1.239 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.09 | 0.173 | 0.207 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Side | 5 | Hotspot On | 23230 | 782 | 21.26 | 22.00 | 1.186 | -0.04 | 0.170 | 0.202 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Side | 5 | Hotspot On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.11 | 0.316 | 0.377 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Side | 5 | Hotspot On | 23230 | 782 | 21.26 | 22.00 | 1.186 | 0.03 | 0.320 | 0.379 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.16 | 0.516 | 0.616 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Bottom Side | 5 | Hotspot On | 23230 | 782 | 21.26 | 22.00 | 1.186 | 0.08 | 0.511 | 0.606 |



FCC SAR Test Report

Report No. : FA8D2801

| Plot 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 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|------------|-------------------------|-------------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | 0.07 | 0.667 | 0.793 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Front | 5 | Hotspot On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | 0.15 | 0.696 | 0.814 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Front | 5 | Hotspot On | 26865 | 831.5 | 20.31 | 21.00 | 1.172 | -0.09 | 0.648 | 0.760 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | 0.17 | 0.987 | 1.173 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Back | 5 | Hotspot On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | 0.04 | 1.130 | 1.322 |
| 34 | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5 | Hotspot On | 26865 | 831.5 | 20.31 | 21.00 | 1.172 | 0.08 | 1.180 | 1.383 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | -0.12 | 0.080 | 0.094 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Left Side | 5 | Hotspot On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | -0.08 | 0.081 | 0.094 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Right Side | 5 | Hotspot On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | -0.13 | 0.274 | 0.326 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Right Side | 5 | Hotspot On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | 0.03 | 0.275 | 0.322 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | 0.02 | 0.538 | 0.639 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Bottom Side | 5 | Hotspot On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | -0.12 | 0.550 | 0.643 |
| | LTE Band 5 | 10M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 20476(PCC) + 20575(SCC) | 831.6(PCC) + 841.5(SCC) | 20.89 | 21.00 | 1.026 | -0.19 | 0.950 | 0.974 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 132572 | 1770 | 16.26 | 16.50 | 1.057 | 0.16 | 0.903 | 0.954 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 132072 | 1720 | 16.25 | 16.50 | 1.059 | 0.15 | 0.939 | 0.995 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 132322 | 1745 | 16.13 | 16.50 | 1.089 | 0.01 | 0.892 | 0.971 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | Hotspot On | 132572 | 1770 | 16.22 | 16.50 | 1.067 | 0.16 | 0.875 | 0.933 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | Hotspot On | 132072 | 1720 | 16.20 | 16.50 | 1.072 | 0.13 | 0.893 | 0.957 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | Hotspot On | 132322 | 1745 | 16.05 | 16.50 | 1.109 | -0.08 | 0.839 | 0.931 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Front | 5 | Hotspot On | 132572 | 1770 | 16.12 | 16.50 | 1.091 | -0.07 | 0.899 | 0.981 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 132572 | 1770 | 16.26 | 16.50 | 1.057 | -0.09 | 1.190 | 1.258 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 132072 | 1720 | 16.25 | 16.50 | 1.059 | -0.03 | 1.160 | 1.229 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 132322 | 1745 | 16.13 | 16.50 | 1.089 | -0.12 | 1.160 | 1.263 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | Hotspot On | 132572 | 1770 | 16.22 | 16.50 | 1.067 | 0.02 | 1.140 | 1.216 |
| 35 | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | Hotspot On | 132072 | 1720 | 16.20 | 16.50 | 1.072 | 0.04 | 1.240 | 1.329 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | Hotspot On | 132322 | 1745 | 16.05 | 16.50 | 1.109 | -0.06 | 1.150 | 1.276 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Back | 5 | Hotspot On | 132572 | 1770 | 16.12 | 16.50 | 1.091 | 0.07 | 1.190 | 1.299 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 132572 | 1770 | 15.14 | 15.50 | 1.086 | 0.02 | 0.076 | 0.082 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Left Side | 5 | Hotspot On | 132572 | 1770 | 15.10 | 15.50 | 1.096 | 0.07 | 0.074 | 0.081 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Side | 5 | Hotspot On | 132572 | 1770 | 15.14 | 15.50 | 1.086 | 0.03 | 0.078 | 0.084 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Right Side | 5 | Hotspot On | 132572 | 1770 | 15.10 | 15.50 | 1.096 | 0.04 | 0.073 | 0.080 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 132572 | 1770 | 15.14 | 15.50 | 1.086 | 0.02 | 1.020 | 1.108 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 132072 | 1720 | 15.13 | 15.50 | 1.089 | 0.02 | 1.030 | 1.122 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 132322 | 1745 | 14.98 | 15.50 | 1.127 | 0.04 | 1.010 | 1.138 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 5 | Hotspot On | 132572 | 1770 | 15.10 | 15.50 | 1.096 | 0.07 | 1.030 | 1.129 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 5 | Hotspot On | 132072 | 1720 | 15.08 | 15.50 | 1.102 | 0.07 | 0.965 | 1.063 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 5 | Hotspot On | 132322 | 1745 | 14.93 | 15.50 | 1.140 | 0.03 | 0.988 | 1.127 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Bottom Side | 5 | Hotspot On | 132572 | 1770 | 14.98 | 15.50 | 1.127 | 0.09 | 1.070 | 1.206 |



| Plot 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 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 26340 | 1880 | 17.84 | 18.00 | 1.038 | 0.15 | 0.950 | 0.986 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 26140 | 1860 | 17.71 | 18.00 | 1.069 | 0.19 | 0.878 | 0.939 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 26590 | 1905 | 17.57 | 18.00 | 1.104 | 0.03 | 0.843 | 0.931 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 26340 | 1880 | 17.70 | 18.00 | 1.072 | 0.17 | 0.894 | 0.958 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 26140 | 1860 | 17.54 | 18.00 | 1.112 | 0.03 | 0.824 | 0.916 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 26590 | 1905 | 17.53 | 18.00 | 1.114 | 0.01 | 0.850 | 0.947 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Front | 5 | Hotspot On | 26340 | 1880 | 17.59 | 18.00 | 1.099 | 0.14 | 0.087 | 0.096 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 26340 | 1880 | 17.84 | 18.00 | 1.038 | -0.07 | 1.250 | 1.297 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 26140 | 1860 | 17.71 | 18.00 | 1.069 | 0.05 | 1.210 | 1.294 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 26590 | 1905 | 17.57 | 18.00 | 1.104 | 0.01 | 1.150 | 1.270 |
| 36 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 26340 | 1880 | 17.70 | 18.00 | 1.072 | 0.15 | 1.240 | 1.329 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 26140 | 1860 | 17.54 | 18.00 | 1.112 | -0.03 | 1.150 | 1.278 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 26590 | 1905 | 17.53 | 18.00 | 1.114 | 0.09 | 1.170 | 1.304 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 5 | Hotspot On | 26340 | 1880 | 17.59 | 18.00 | 1.099 | 0.05 | 1.170 | 1.286 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 26340 | 1880 | 16.43 | 16.50 | 1.016 | -0.02 | 0.061 | 0.062 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Side | 5 | Hotspot On | 26340 | 1880 | 16.24 | 16.50 | 1.062 | -0.05 | 0.060 | 0.064 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Side | 5 | Hotspot On | 26340 | 1880 | 16.43 | 16.50 | 1.016 | -0.02 | 0.040 | 0.040 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Side | 5 | Hotspot On | 26340 | 1880 | 16.24 | 16.50 | 1.062 | -0.01 | 0.038 | 0.040 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26340 | 1880 | 16.43 | 16.50 | 1.016 | -0.03 | 1.290 | 1.311 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26140 | 1860 | 16.31 | 16.50 | 1.045 | 0.01 | 1.160 | 1.212 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 26590 | 1905 | 16.14 | 16.50 | 1.086 | 0.03 | 1.150 | 1.249 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Hotspot On | 26340 | 1880 | 16.24 | 16.50 | 1.062 | -0.03 | 1.200 | 1.274 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Hotspot On | 26140 | 1860 | 16.10 | 16.50 | 1.096 | -0.01 | 1.100 | 1.206 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Hotspot On | 26590 | 1905 | 16.13 | 16.50 | 1.089 | 0.05 | 1.170 | 1.274 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Bottom Side | 5 | Hotspot On | 26340 | 1880 | 16.23 | 16.50 | 1.064 | -0.03 | 1.180 | 1.256 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.01 | 0.349 | 0.402 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | -0.18 | 0.360 | 0.414 |
| 37 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.13 | 0.954 | 1.098 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.02 | 0.940 | 1.082 |
| | LTE Band 30 | 10M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 27710 | 2310 | 16.40 | 17.00 | 1.148 | -0.02 | 0.926 | 1.063 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.04 | 0.368 | 0.423 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Side | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.02 | 0.378 | 0.435 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.05 | 0.557 | 0.641 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Bottom Side | 5 | Hotspot On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | -0.02 | 0.558 | 0.642 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.06 | 0.591 | 0.647 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | 0.07 | 0.496 | 0.539 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.08 | 1.160 | 1.269 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 20850 | 2510 | 19.51 | 20.00 | 1.119 | 0.07 | 1.090 | 1.220 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 21100 | 2535 | 19.52 | 20.00 | 1.117 | -0.09 | 1.120 | 1.251 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | -0.13 | 1.140 | 1.239 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 20850 | 2510 | 19.60 | 20.00 | 1.096 | 0.18 | 1.140 | 1.250 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 21100 | 2535 | 19.52 | 20.00 | 1.117 | 0.08 | 1.120 | 1.251 |
| 38 | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 5 | Hotspot On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | -0.15 | 1.180 | 1.291 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.11 | 0.487 | 0.533 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Left Side | 5 | Hotspot On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | 0.02 | 0.485 | 0.527 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.04 | 0.388 | 0.424 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Hotspot On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | 0.02 | 0.405 | 0.440 |



<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Mode | Power Class | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|------------|-------------|-------------------------------|---------------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | Hotspot On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | -0.1 | 0.471 | 0.527 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 5 | Hotspot On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | -0.01 | 0.415 | 0.470 |
| 39 | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.13 | 1.250 | 1.398 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 39750 | 2506 | 21.85 | 22.50 | 1.161 | 62.9 | 1.006 | -0.14 | 1.070 | 1.250 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 40620 | 2593 | 22.03 | 22.50 | 1.114 | 62.9 | 1.006 | 0.02 | 1.150 | 1.289 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 41055 | 2636.5 | 21.95 | 22.50 | 1.135 | 62.9 | 1.006 | -0.1 | 1.130 | 1.290 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 41490 | 2680 | 22.00 | 22.50 | 1.122 | 62.9 | 1.006 | -0.02 | 1.110 | 1.253 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | 0.06 | 0.992 | 1.122 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 3 | 39750 | 2506 | 21.35 | 22.00 | 1.161 | 62.9 | 1.006 | 0.02 | 1.040 | 1.215 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 3 | 40620 | 2593 | 21.44 | 22.00 | 1.138 | 62.9 | 1.006 | 0.12 | 1.110 | 1.270 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 3 | 41055 | 2636.5 | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.07 | 1.100 | 1.247 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 3 | 41490 | 2680 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | -0.03 | 1.130 | 1.278 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Back | 5 | Hotspot On | 3 | 40185 | 2549.5 | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.02 | 1.090 | 1.236 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Left Side | 5 | Hotspot On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.14 | 0.513 | 0.574 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Left Side | 5 | Hotspot On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | 0.05 | 0.428 | 0.484 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Bottom Side | 5 | Hotspot On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.05 | 0.424 | 0.474 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Bottom Side | 5 | Hotspot On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | 0.01 | 0.381 | 0.431 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 39750(PCC) + 39948(SCC) | 2506(PCC) + 2525.8(SCC) | 21.76 | 22.50 | 1.186 | 62.9 | 1.006 | 0.08 | 1.110 | 1.324 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 40185(PCC) + 39987(SCC) | 2549.5(PCC) + 2529.7(SCC) | 22.01 | 22.50 | 1.119 | 62.9 | 1.006 | 0.09 | 1.200 | 1.351 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 40620(PCC) + 40422(SCC) | 2593(PCC) + 2573.2(SCC) | 22.18 | 22.50 | 1.076 | 62.9 | 1.006 | 0.04 | 1.230 | 1.332 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 41055(PCC) + 40857(SCC) | 2636.5(PCC) + 2616.7(SCC) | 21.98 | 22.50 | 1.127 | 62.9 | 1.006 | 0.03 | 1.180 | 1.338 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 3 | 41490(PCC) + 41292(SCC) | 2680(PCC) + 2660.2(SCC) | 22.05 | 22.50 | 1.109 | 62.9 | 1.006 | 0.04 | 1.180 | 1.317 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 2 | 40185 | 2549.5 | 22.03 | 22.50 | 1.114 | 42.9 | 1.009 | -0.18 | 0.737 | 0.829 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 2 | 39750 | 2506 | 21.82 | 22.50 | 1.169 | 42.9 | 1.009 | 0.04 | 0.726 | 0.857 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 2 | 40620 | 2593 | 22.02 | 22.50 | 1.117 | 42.9 | 1.009 | -0.09 | 0.762 | 0.859 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 2 | 41055 | 2636.5 | 21.92 | 22.50 | 1.143 | 42.9 | 1.009 | -0.06 | 0.739 | 0.852 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Hotspot On | 2 | 41490 | 2680 | 22.01 | 22.50 | 1.119 | 42.9 | 1.009 | -0.05 | 0.803 | 0.907 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 2 | 40185 | 2549.5 | 22.10 | 22.50 | 1.096 | 42.9 | 1.009 | -0.08 | 0.786 | 0.870 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 2 | 39750 | 2506 | 21.86 | 22.50 | 1.159 | 42.9 | 1.009 | -0.06 | 0.783 | 0.915 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 2 | 40620 | 2593 | 22.06 | 22.50 | 1.107 | 42.9 | 1.009 | 0.08 | 0.826 | 0.922 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 2 | 41055 | 2636.5 | 22.02 | 22.50 | 1.117 | 42.9 | 1.009 | -0.01 | 0.766 | 0.863 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | Hotspot On | 2 | 41490 | 2680 | 22.09 | 22.50 | 1.099 | 42.9 | 1.009 | -0.16 | 0.776 | 0.861 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Back | 5 | Hotspot On | 2 | 40185 | 2549.5 | 22.09 | 22.50 | 1.099 | 42.9 | 1.009 | 0.02 | 0.779 | 0.864 |

<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 | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | 0.01 | 0.639 | 0.383 | 0.391 |
| 40 | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | 0.18 | 1.071 | 0.711 | 0.726 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Side | 5 | Full | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | -0.05 | 0.768 | 0.411 | 0.420 |
| | WLAN2.4GHz | 802.11b 1Mbps | Top Side | 5 | Full | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | | 0.399 | | |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 1 | 2412 | 16.88 | 18.00 | 1.294 | 100 | 1.000 | 0 | | 0.269 | 0.348 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | Full | 11 | 2462 | 17.98 | 19.00 | 1.265 | 100 | 1.000 | 0.04 | | 0.435 | 0.550 |

<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 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|---------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------|------------------------|------------------------|
| | WLAN5.2GHz | 802.11a 6Mbps | Front | 5 | Full | 48 | 5240 | 19.06 | 20.00 | 1.242 | 98.28 | 1.018 | 0.01 | 1.230 | 0.380 | 0.480 |
| | WLAN5.2GHz | 802.11a 6Mbps | Back | 5 | Full | 48 | 5240 | 19.06 | 20.00 | 1.242 | 98.28 | 1.018 | -0.04 | 1.964 | 0.832 | 1.052 |
| | WLAN5.2GHz | 802.11a 6Mbps | Right Side | 5 | Full | 48 | 5240 | 19.06 | 20.00 | 1.242 | 98.28 | 1.018 | | 0.232 | | |
| | WLAN5.2GHz | 802.11a 6Mbps | Top Side | 5 | Full | 48 | 5240 | 19.06 | 20.00 | 1.242 | 98.28 | 1.018 | | 0.452 | | |
| 41 | WLAN5.2GHz | 802.11a 6Mbps | Back | 5 | Full | 36 | 5180 | 18.67 | 20.00 | 1.358 | 98.28 | 1.018 | 0.05 | | 0.804 | 1.112 |
| | WLAN5.2GHz | 802.11a 6Mbps | Back | 5 | Full | 44 | 5220 | 19.04 | 20.00 | 1.247 | 98.28 | 1.018 | -0.19 | | 0.831 | 1.055 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Front | 5 | Hotspot On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | -0.01 | 0.691 | 0.244 | 0.303 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | Hotspot On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | -0.05 | 1.605 | 0.683 | 0.850 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Right Side | 5 | Hotspot On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | | 0.236 | | |
| | WLAN 5.8GHz | 802.11a 6Mbps | Top Side | 5 | Hotspot On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | | 0.343 | | |
| 42 | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | Hotspot On | 149 | 5745 | 15.84 | 17.50 | 1.466 | 98.28 | 1.018 | 0.02 | | 0.603 | 0.900 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | Hotspot On | 157 | 5785 | 16.30 | 17.50 | 1.318 | 98.28 | 1.018 | 0.03 | 1.233 | 0.590 | 0.792 |

<Bluetooth 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) |
|----------|-----------|-------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | Bluetooth | 1Mbps | Front | 5 | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.08 | 0.035 | 0.044 |
| | Bluetooth | 1Mbps | Back | 5 | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | -0.08 | 0.038 | 0.047 |
| | Bluetooth | 1Mbps | Right Side | 5 | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.16 | 0.030 | 0.037 |
| | Bluetooth | 1Mbps | Top Side | 5 | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.05 | 0.014 | 0.017 |
| | Bluetooth | 1Mbps | Back | 5 | Full | 39 | 2441 | 9.09 | 10.00 | 1.233 | 76.9 | 1.083 | 0.05 | 0.046 | 0.061 |
| 43 | Bluetooth | 1Mbps | Back | 5 | Full | 78 | 2480 | 8.35 | 10.00 | 1.462 | 76.9 | 1.083 | -0.06 | 0.047 | 0.075 |



15.3 Body Worn Accessory SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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) |
|----------|---------|-----------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | GSM850 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | -0.06 | 0.922 | 1.066 |
| | GSM850 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 189 | 836.4 | 29.35 | 30.00 | 1.161 | 0.09 | 0.703 | 0.816 |
| | GSM850 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 251 | 848.8 | 29.28 | 30.00 | 1.180 | 0.18 | 0.739 | 0.872 |
| 44 | GSM850 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | 0.05 | 1.240 | 1.434 |
| | GSM850 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 189 | 836.4 | 29.35 | 30.00 | 1.161 | -0.04 | 1.140 | 1.324 |
| | GSM850 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 251 | 848.8 | 29.28 | 30.00 | 1.180 | 0.04 | 1.150 | 1.357 |
| | GSM850 | GPRS 2 Tx slots | Back | 5 | Headset | P-Sensor On | 128 | 824.2 | 29.37 | 30.00 | 1.156 | 0.01 | 0.391 | 0.452 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 661 | 1880 | 25.19 | 26.00 | 1.205 | -0.17 | 0.744 | 0.897 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 512 | 1850.2 | 25.15 | 26.00 | 1.216 | 0.05 | 0.782 | 0.951 |
| | GSM1900 | GPRS 2 Tx slots | Front | 5 | - | P-Sensor On | 810 | 1909.8 | 25.14 | 26.00 | 1.219 | 0.01 | 0.693 | 0.845 |
| 45 | GSM1900 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 661 | 1880 | 25.19 | 26.00 | 1.205 | 0.09 | 1.130 | 1.362 |
| | GSM1900 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 512 | 1850.2 | 25.15 | 26.00 | 1.216 | 0.07 | 0.955 | 1.161 |
| | GSM1900 | GPRS 2 Tx slots | Back | 5 | - | P-Sensor On | 810 | 1909.8 | 25.14 | 26.00 | 1.219 | 0.04 | 0.721 | 0.879 |
| | GSM1900 | GPRS 2 Tx slots | Back | 5 | Headset | P-Sensor On | 661 | 1880 | 25.19 | 26.00 | 1.205 | -0.05 | 0.589 | 0.710 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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) |
|----------|---------------|--------------|---------------|----------|---------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA Band V | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | -0.04 | 0.723 | 0.731 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | 0.06 | 1.200 | 1.214 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 4182 | 836.4 | 20.90 | 21.00 | 1.023 | 0.03 | 1.270 | 1.300 |
| 46 | WCDMA Band V | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 4233 | 846.6 | 20.91 | 21.00 | 1.021 | 0.06 | 1.370 | 1.399 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 4233 | 846.6 | 20.91 | 21.00 | 1.021 | -0.12 | 0.965 | 0.985 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 4132 | 826.4 | 20.95 | 21.00 | 1.012 | -0.01 | 0.898 | 0.908 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 4182 | 836.4 | 20.90 | 21.00 | 1.023 | -0.02 | 0.967 | 0.990 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 1513 | 1752.6 | 16.49 | 16.50 | 1.002 | 0 | 1.040 | 1.042 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 1312 | 1712.4 | 16.42 | 16.50 | 1.019 | 0.16 | 1.050 | 1.070 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | 0.04 | 1.050 | 1.060 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 1513 | 1752.6 | 16.49 | 16.50 | 1.002 | 0.05 | 1.210 | 1.213 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 1312 | 1712.4 | 16.42 | 16.50 | 1.019 | 0.08 | 1.340 | 1.365 |
| 47 | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | 0.12 | 1.370 | 1.383 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | -0.02 | 0.794 | 0.801 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 1312 | 1712.4 | 16.42 | 16.50 | 1.019 | -0.04 | 0.724 | 0.737 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 1513 | 1752.6 | 16.49 | 16.50 | 1.002 | -0.06 | 0.806 | 0.808 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 9262 | 1852.4 | 17.81 | 18.00 | 1.045 | 0.16 | 0.786 | 0.821 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 9400 | 1880 | 17.80 | 18.00 | 1.047 | 0.02 | 0.810 | 0.848 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 5 | - | P-Sensor On | 9538 | 1907.6 | 17.79 | 18.00 | 1.050 | 0.07 | 0.718 | 0.754 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 9262 | 1852.4 | 17.81 | 18.00 | 1.045 | 0.07 | 1.090 | 1.139 |
| 48 | WCDMA Band II | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 9400 | 1880 | 17.80 | 18.00 | 1.047 | 0.06 | 1.170 | 1.225 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 5 | - | P-Sensor On | 9538 | 1907.6 | 17.79 | 18.00 | 1.050 | -0.07 | 1.040 | 1.092 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 5 | Headset | P-Sensor On | 9400 | 1880 | 17.80 | 18.00 | 1.047 | -0.06 | 0.651 | 0.682 |



<CDMA2000 SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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) |
|----------|---------------|------------------|---------------|----------|---------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 476 | 817.9 | 21.73 | 22.00 | 1.064 | -0.03 | 0.728 | 0.775 |
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 476 | 817.9 | 21.73 | 22.00 | 1.064 | 0.01 | 1.050 | 1.117 |
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 580 | 820.5 | 21.72 | 22.00 | 1.067 | -0.02 | 1.100 | 1.173 |
| 49 | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 684 | 823.1 | 21.72 | 22.00 | 1.067 | -0.01 | 1.130 | 1.205 |
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 684 | 823.1 | 21.72 | 22.00 | 1.067 | -0.01 | 0.838 | 0.894 |
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 476 | 817.9 | 21.73 | 22.00 | 1.064 | -0.03 | 0.793 | 0.844 |
| | CDMA2000 BC10 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 580 | 820.5 | 21.72 | 22.00 | 1.067 | -0.03 | 0.811 | 0.865 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 1013 | 824.7 | 21.57 | 22.00 | 1.104 | -0.01 | 0.759 | 0.838 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 384 | 836.52 | 21.56 | 22.00 | 1.107 | -0.07 | 0.662 | 0.733 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 777 | 848.31 | 21.49 | 22.00 | 1.125 | -0.04 | 0.666 | 0.749 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 1013 | 824.7 | 21.57 | 22.00 | 1.104 | -0.04 | 1.050 | 1.159 |
| 50 | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 384 | 836.52 | 21.56 | 22.00 | 1.107 | 0.02 | 1.100 | 1.217 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 777 | 848.31 | 21.49 | 22.00 | 1.125 | 0.01 | 0.990 | 1.113 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 384 | 836.52 | 21.56 | 22.00 | 1.107 | -0.03 | 0.811 | 0.897 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 777 | 848.31 | 21.49 | 22.00 | 1.125 | -0.03 | 0.771 | 0.867 |
| | CDMA2000 BC0 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 1013 | 824.7 | 21.57 | 22.00 | 1.104 | -0.03 | 0.806 | 0.890 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 600 | 1880 | 19.33 | 19.50 | 1.040 | -0.07 | 0.875 | 0.910 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 25 | 1851.25 | 19.23 | 19.50 | 1.064 | 0.03 | 0.871 | 0.927 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Front | 5 | - | P-Sensor On | 1175 | 1908.75 | 19.08 | 19.50 | 1.102 | 0.02 | 0.842 | 0.927 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 600 | 1880 | 19.33 | 19.50 | 1.040 | 0.06 | 1.300 | 1.352 |
| 51 | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 25 | 1851.25 | 19.23 | 19.50 | 1.064 | -0.09 | 1.290 | 1.373 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | - | P-Sensor On | 1175 | 1908.75 | 19.08 | 19.50 | 1.102 | -0.02 | 1.220 | 1.344 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 25 | 1851.25 | 19.23 | 19.50 | 1.064 | 0.03 | 0.787 | 0.837 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 600 | 1880 | 19.33 | 19.50 | 1.040 | 0.03 | 0.711 | 0.739 |
| | CDMA2000 BC1 | RC3 SO32 (F+SCH) | Back | 5 | Headset | P-Sensor On | 1175 | 1908.75 | 19.08 | 19.50 | 1.102 | 0.08 | 0.678 | 0.747 |



<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Headset | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|---------|-------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Front | 5 | - | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.03 | 0.450 | 0.532 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Front | 5 | - | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | 0.02 | 0.320 | 0.373 |
| 52 | LTE Band 71 | 20M | QPSK | 1 | 0 | Back | 5 | - | Full | 133322 | 683 | 23.27 | 24.00 | 1.183 | 0.09 | 0.759 | 0.898 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Back | 5 | - | Full | 133322 | 683 | 22.33 | 23.00 | 1.167 | -0.03 | 0.523 | 0.610 |
| | LTE Band 71 | 20M | QPSK | 100 | 0 | Back | 5 | - | Full | 133322 | 683 | 22.27 | 23.00 | 1.183 | -0.12 | 0.541 | 0.640 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.18 | 0.595 | 0.732 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Front | 5 | - | P-Sensor On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | -0.04 | 0.515 | 0.612 |
| 53 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 23095 | 707.5 | 21.10 | 22.00 | 1.230 | -0.04 | 0.907 | 1.116 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 5 | - | P-Sensor On | 23095 | 707.5 | 21.25 | 22.00 | 1.189 | 0.01 | 0.851 | 1.011 |
| | LTE Band 12 | 10M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 23095 | 707.5 | 21.21 | 22.00 | 1.199 | 0.04 | 0.841 | 1.009 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.01 | 0.681 | 0.813 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 5 | - | P-Sensor On | 23230 | 782 | 21.26 | 22.00 | 1.186 | -0.17 | 0.663 | 0.786 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 23230 | 782 | 21.24 | 22.00 | 1.191 | 0.01 | 0.658 | 0.784 |
| 54 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 23230 | 782 | 21.23 | 22.00 | 1.194 | 0.04 | 1.040 | 1.242 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 5 | - | P-Sensor On | 23230 | 782 | 21.26 | 22.00 | 1.186 | -0.06 | 1.030 | 1.221 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 23230 | 782 | 21.24 | 22.00 | 1.191 | -0.09 | 1.040 | 1.239 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 23230 | 782 | 21.23 | 22.00 | 1.194 | -0.02 | 1.000 | 1.194 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | 0.07 | 0.667 | 0.793 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Front | 5 | - | P-Sensor On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | 0.15 | 0.696 | 0.814 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Front | 5 | - | P-Sensor On | 26865 | 831.5 | 20.31 | 21.00 | 1.172 | -0.09 | 0.648 | 0.760 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 26865 | 831.5 | 20.25 | 21.00 | 1.189 | 0.17 | 0.987 | 1.173 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Back | 5 | - | P-Sensor On | 26865 | 831.5 | 20.32 | 21.00 | 1.169 | 0.04 | 1.130 | 1.322 |
| 55 | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5 | - | P-Sensor On | 26865 | 831.5 | 20.31 | 21.00 | 1.172 | 0.08 | 1.180 | 1.383 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5 | Headset | P-Sensor On | 26865 | 831.5 | 20.31 | 21.00 | 1.172 | -0.01 | 1.070 | 1.254 |
| | LTE Band 5 | 10M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 20476(PCC) + 20575(SCC) | 831.6(PCC) + 841.5(SCC) | 20.89 | 21.00 | 1.026 | -0.19 | 0.950 | 0.974 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 132572 | 1770 | 16.26 | 16.50 | 1.057 | 0.16 | 0.903 | 0.954 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 132072 | 1720 | 16.25 | 16.50 | 1.059 | 0.15 | 0.939 | 0.995 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 132322 | 1745 | 16.13 | 16.50 | 1.089 | 0.01 | 0.892 | 0.971 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | - | P-Sensor On | 132572 | 1770 | 16.22 | 16.50 | 1.067 | 0.16 | 0.875 | 0.933 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | - | P-Sensor On | 132072 | 1720 | 16.20 | 16.50 | 1.072 | 0.13 | 0.893 | 0.957 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 5 | - | P-Sensor On | 132322 | 1745 | 16.05 | 16.50 | 1.109 | -0.08 | 0.839 | 0.931 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Front | 5 | - | P-Sensor On | 132572 | 1770 | 16.12 | 16.50 | 1.091 | -0.07 | 0.899 | 0.981 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 132572 | 1770 | 16.26 | 16.50 | 1.057 | -0.09 | 1.190 | 1.258 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 132072 | 1720 | 16.25 | 16.50 | 1.059 | -0.03 | 1.160 | 1.229 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 132322 | 1745 | 16.13 | 16.50 | 1.089 | -0.12 | 1.160 | 1.263 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | - | P-Sensor On | 132572 | 1770 | 16.22 | 16.50 | 1.067 | 0.02 | 1.140 | 1.216 |
| 56 | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | - | P-Sensor On | 132072 | 1720 | 16.20 | 16.50 | 1.072 | 0.04 | 1.240 | 1.329 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | - | P-Sensor On | 132322 | 1745 | 16.05 | 16.50 | 1.109 | -0.06 | 1.150 | 1.276 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Back | 5 | - | P-Sensor On | 132572 | 1770 | 16.12 | 16.50 | 1.091 | 0.07 | 1.190 | 1.299 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 5 | Headset | P-Sensor On | 132072 | 1720 | 16.22 | 16.50 | 1.067 | -0.01 | 0.556 | 0.593 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Headset | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|---------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 26340 | 1880 | 17.84 | 18.00 | 1.038 | 0.15 | 0.950 | 0.986 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 26140 | 1860 | 17.71 | 18.00 | 1.069 | 0.19 | 0.878 | 0.939 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 26590 | 1905 | 17.57 | 18.00 | 1.104 | 0.03 | 0.843 | 0.931 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 26340 | 1880 | 17.70 | 18.00 | 1.072 | 0.17 | 0.894 | 0.958 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 26140 | 1860 | 17.54 | 18.00 | 1.112 | 0.03 | 0.824 | 0.916 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 26590 | 1905 | 17.53 | 18.00 | 1.114 | 0.01 | 0.850 | 0.947 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Front | 5 | - | P-Sensor On | 26340 | 1880 | 17.59 | 18.00 | 1.099 | 0.14 | 0.870 | 0.956 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 26340 | 1880 | 17.84 | 18.00 | 1.038 | -0.07 | 1.250 | 1.297 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 26140 | 1860 | 17.71 | 18.00 | 1.069 | 0.05 | 1.210 | 1.294 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 26590 | 1905 | 17.57 | 18.00 | 1.104 | 0.01 | 1.150 | 1.270 |
| 57 | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 26340 | 1880 | 17.70 | 18.00 | 1.072 | 0.15 | 1.240 | 1.329 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 26140 | 1860 | 17.54 | 18.00 | 1.112 | -0.03 | 1.150 | 1.278 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 26590 | 1905 | 17.53 | 18.00 | 1.114 | 0.09 | 1.170 | 1.304 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 5 | - | P-Sensor On | 26340 | 1880 | 17.59 | 18.00 | 1.099 | 0.05 | 1.170 | 1.286 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5 | Headset | P-Sensor On | 26340 | 1880 | 17.70 | 18.00 | 1.072 | 0.12 | 0.669 | 0.717 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.01 | 0.349 | 0.402 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5 | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | -0.18 | 0.360 | 0.414 |
| 58 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.13 | 0.954 | 1.098 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5 | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | 0.02 | 0.940 | 1.082 |
| | LTE Band 30 | 10M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 27710 | 2310 | 16.40 | 17.00 | 1.148 | -0.02 | 0.926 | 1.063 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.06 | 0.591 | 0.647 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | 0.07 | 0.496 | 0.539 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0.08 | 1.160 | 1.269 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 20850 | 2510 | 19.51 | 20.00 | 1.119 | 0.07 | 1.090 | 1.220 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 21100 | 2535 | 19.52 | 20.00 | 1.117 | -0.09 | 1.120 | 1.251 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 21350 | 2560 | 19.64 | 20.00 | 1.086 | -0.13 | 1.140 | 1.239 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 20850 | 2510 | 19.60 | 20.00 | 1.096 | 0.18 | 1.140 | 1.250 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 21100 | 2535 | 19.52 | 20.00 | 1.117 | 0.08 | 1.120 | 1.251 |
| | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 5 | - | P-Sensor On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | -0.15 | 1.180 | 1.291 |
| | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 5 | Headset | P-Sensor On | 21350 | 2560 | 19.61 | 20.00 | 1.094 | 0 | 1.130 | 1.236 |
| | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 5 | Headset | P-Sensor On | 20850 | 2510 | 19.58 | 20.00 | 1.102 | 0.02 | 1.170 | 1.289 |
| 59 | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 5 | Headset | P-Sensor On | 21100 | 2535 | 19.52 | 20.00 | 1.117 | 0.01 | 1.160 | 1.296 |



<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Headset | Power Mode | Power Class | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|---------|-------------|-------------|-------------------------------|---------------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Front | 5 | - | P-Sensor On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | -0.1 | 0.471 | 0.527 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Front | 5 | - | P-Sensor On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | -0.01 | 0.415 | 0.470 |
| 60 | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.13 | 1.250 | 1.398 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 39750 | 2506 | 21.85 | 22.50 | 1.161 | 62.9 | 1.006 | -0.14 | 1.070 | 1.250 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 40620 | 2593 | 22.03 | 22.50 | 1.114 | 62.9 | 1.006 | 0.02 | 1.150 | 1.289 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 41055 | 2636.5 | 21.95 | 22.50 | 1.135 | 62.9 | 1.006 | -0.1 | 1.130 | 1.290 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 41490 | 2680 | 22.00 | 22.50 | 1.122 | 62.9 | 1.006 | -0.02 | 1.110 | 1.253 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 3 | 40185 | 2549.5 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | 0.06 | 0.992 | 1.122 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 3 | 39750 | 2506 | 21.35 | 22.00 | 1.161 | 62.9 | 1.006 | 0.02 | 1.040 | 1.215 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 3 | 40620 | 2593 | 21.44 | 22.00 | 1.138 | 62.9 | 1.006 | 0.12 | 1.110 | 1.270 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 3 | 41055 | 2636.5 | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.07 | 1.100 | 1.247 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 3 | 41490 | 2680 | 21.49 | 22.00 | 1.125 | 62.9 | 1.006 | -0.03 | 1.130 | 1.278 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Back | 5 | - | P-Sensor On | 3 | 40185 | 2549.5 | 21.48 | 22.00 | 1.127 | 62.9 | 1.006 | 0.02 | 1.090 | 1.236 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 3 | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.16 | 1.200 | 1.342 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 3 | 39750 | 2506 | 21.85 | 22.50 | 1.161 | 62.9 | 1.006 | -0.19 | 1.160 | 1.355 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 3 | 40620 | 2593 | 22.03 | 22.50 | 1.114 | 62.9 | 1.006 | -0.04 | 1.200 | 1.345 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 3 | 41055 | 2636.5 | 21.95 | 22.50 | 1.135 | 62.9 | 1.006 | -0.11 | 1.200 | 1.370 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | Headset | P-Sensor On | 3 | 41490 | 2680 | 22.00 | 22.50 | 1.122 | 62.9 | 1.006 | 0.06 | 1.150 | 1.298 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 39750(PCC) + 39948(SCC) | 2506(PCC) + 2525.8(SCC) | 21.76 | 22.50 | 1.186 | 62.9 | 1.006 | 0.08 | 1.110 | 1.324 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 40185(PCC) + 39987(SCC) | 2549.5(PCC) + 2529.7(SCC) | 22.01 | 22.50 | 1.119 | 62.9 | 1.006 | 0.09 | 1.200 | 1.351 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 40620(PCC) + 40422(SCC) | 2593(PCC) + 2573.2(SCC) | 22.18 | 22.50 | 1.076 | 62.9 | 1.006 | 0.04 | 1.230 | 1.332 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 41055(PCC) + 40857(SCC) | 2636.5(PCC) + 2616.7(SCC) | 21.98 | 22.50 | 1.127 | 62.9 | 1.006 | 0.03 | 1.180 | 1.338 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 3 | 41490(PCC) + 41292(SCC) | 2680(PCC) + 2660.2(SCC) | 22.05 | 22.50 | 1.109 | 62.9 | 1.006 | 0.04 | 1.180 | 1.317 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 2 | 40185 | 2549.5 | 22.03 | 22.50 | 1.114 | 42.9 | 1.009 | -0.18 | 0.737 | 0.829 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 2 | 39750 | 2506 | 21.82 | 22.50 | 1.169 | 42.9 | 1.009 | 0.04 | 0.726 | 0.857 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 2 | 40620 | 2593 | 22.02 | 22.50 | 1.117 | 42.9 | 1.009 | -0.09 | 0.762 | 0.859 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 2 | 41055 | 2636.5 | 21.92 | 22.50 | 1.143 | 42.9 | 1.009 | -0.06 | 0.739 | 0.852 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 5 | - | P-Sensor On | 2 | 41490 | 2680 | 22.01 | 22.50 | 1.119 | 42.9 | 1.009 | -0.05 | 0.803 | 0.907 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 40185 | 2549.5 | 22.10 | 22.50 | 1.096 | 42.9 | 1.009 | -0.08 | 0.786 | 0.870 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 39790 | 2510 | 21.85 | 22.50 | 1.161 | 42.9 | 1.009 | 0.01 | 0.779 | 0.913 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 39750 | 2506 | 21.86 | 22.50 | 1.159 | 42.9 | 1.009 | -0.06 | 0.783 | 0.915 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 40620 | 2593 | 22.06 | 22.50 | 1.107 | 42.9 | 1.009 | 0.08 | 0.826 | 0.922 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 41055 | 2636.5 | 22.02 | 22.50 | 1.117 | 42.9 | 1.009 | -0.01 | 0.766 | 0.863 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 5 | - | P-Sensor On | 2 | 41490 | 2680 | 22.09 | 22.50 | 1.099 | 42.9 | 1.009 | -0.16 | 0.776 | 0.861 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Back | 5 | - | P-Sensor On | 2 | 40185 | 2549.5 | 22.09 | 22.50 | 1.099 | 42.9 | 1.009 | 0.02 | 0.779 | 0.864 |



<WLAN 2.4GHz SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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 | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | 0.01 | 0.639 | 0.383 | 0.391 |
| 61 | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | - | Full | 6 | 2437 | 19.91 | 20.00 | 1.021 | 100 | 1.000 | 0.18 | 1.071 | 0.711 | 0.726 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | - | Full | 1 | 2412 | 16.88 | 18.00 | 1.294 | 100 | 1.000 | 0 | | 0.269 | 0.348 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5 | - | Full | 11 | 2462 | 17.98 | 19.00 | 1.265 | 100 | 1.000 | 0.04 | | 0.435 | 0.550 |

<WLAN 5GHz SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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) |
|----------|-------------|-------------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------|------------------------|------------------------|
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 5 | - | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | 0.01 | 1.013 | 0.360 | 0.458 |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 5 | - | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | -0.02 | 1.764 | 0.797 | 1.014 |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 5 | - | Full | 52 | 5260 | 18.81 | 20.00 | 1.315 | 98.28 | 1.018 | -0.04 | | 0.620 | 0.830 |
| 62 | WLAN5.3GHz | 802.11a 6Mbps | Back | 5 | - | Full | 64 | 5320 | 18.40 | 20.00 | 1.445 | 98.28 | 1.018 | 0.01 | | 0.712 | 1.048 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Front | 5 | - | P-Sensor On | 110 | 5550 | 16.20 | 17.50 | 1.349 | 96.32 | 1.038 | -0.03 | 0.835 | 0.328 | 0.459 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back | 5 | - | P-Sensor On | 110 | 5550 | 16.20 | 17.50 | 1.349 | 96.32 | 1.038 | 0.01 | 1.483 | 0.766 | 1.073 |
| 63 | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back | 5 | - | P-Sensor On | 102 | 5510 | 16.07 | 17.50 | 1.390 | 96.32 | 1.038 | 0.01 | | 0.804 | 1.160 |
| | WLAN5.5GHz | 802.11n-HT40 MCS0 | Back | 5 | - | P-Sensor On | 134 | 5670 | 14.95 | 16.50 | 1.429 | 96.32 | 1.038 | 0.03 | | 0.569 | 0.844 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Front | 5 | - | P-Sensor On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | -0.01 | 0.691 | 0.244 | 0.303 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | - | P-Sensor On | 165 | 5825 | 16.63 | 17.50 | 1.222 | 98.28 | 1.018 | -0.05 | 1.605 | 0.683 | 0.850 |
| 64 | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | - | P-Sensor On | 149 | 5745 | 15.84 | 17.50 | 1.466 | 98.28 | 1.018 | 0.02 | | 0.603 | 0.900 |
| | WLAN 5.8GHz | 802.11a 6Mbps | Back | 5 | - | P-Sensor On | 157 | 5785 | 16.30 | 17.50 | 1.318 | 98.28 | 1.018 | 0.03 | | 0.590 | 0.792 |

<Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Headset | 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) |
|----------|-----------|-------|---------------|----------|---------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | Bluetooth | 1Mbps | Front | 5 | - | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | 0.08 | 0.035 | 0.044 |
| | Bluetooth | 1Mbps | Back | 5 | - | Full | 0 | 2402 | 9.43 | 10.00 | 1.140 | 76.9 | 1.083 | -0.08 | 0.038 | 0.047 |
| | Bluetooth | 1Mbps | Back | 5 | - | Full | 39 | 2441 | 9.09 | 10.00 | 1.233 | 76.9 | 1.083 | 0.05 | 0.046 | 0.061 |
| 65 | Bluetooth | 1Mbps | Back | 5 | - | Full | 78 | 2480 | 8.35 | 10.00 | 1.462 | 76.9 | 1.083 | -0.06 | 0.047 | 0.075 |

15.4 Product specific 10g SAR

<GSM 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 | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|-----------------|---------------|----------|-------------|-----|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | GSM850 | GPRS 2 Tx slots | Front | 0 | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.07 | 1.930 | 2.413 |
| | GSM850 | GPRS 2 Tx slots | Front | 0 | Full | 189 | 836.4 | 31.84 | 33.00 | 1.306 | 0.08 | 1.890 | 2.469 |
| | GSM850 | GPRS 2 Tx slots | Front | 0 | Full | 251 | 848.8 | 31.86 | 33.00 | 1.300 | 0.01 | 1.840 | 2.392 |
| | GSM850 | GPRS 2 Tx slots | Back | 0 | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.05 | 2.130 | 2.663 |
| | GSM850 | GPRS 2 Tx slots | Back | 0 | Full | 189 | 836.4 | 31.84 | 33.00 | 1.306 | -0.02 | 1.940 | 2.534 |
| 66 | GSM850 | GPRS 2 Tx slots | Back | 0 | Full | 251 | 848.8 | 31.86 | 33.00 | 1.300 | 0.14 | 2.330 | 3.029 |
| | GSM850 | GPRS 2 Tx slots | Bottom Side | 0 | Full | 128 | 824.2 | 32.03 | 33.00 | 1.250 | 0.06 | 0.987 | 1.234 |
| | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 661 | 1880 | 26.79 | 28.00 | 1.321 | 0.06 | 1.640 | 2.167 |
| | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 512 | 1850.2 | 26.73 | 28.00 | 1.340 | 0.02 | 1.680 | 2.251 |
| | GSM1900 | GPRS 2 Tx slots | Front | 0 | Handheld On | 810 | 1909.8 | 26.75 | 28.00 | 1.334 | 0.08 | 1.590 | 2.120 |
| | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 661 | 1880 | 26.79 | 28.00 | 1.321 | -0.02 | 2.100 | 2.775 |
| | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 512 | 1850.2 | 26.73 | 28.00 | 1.340 | -0.05 | 2.240 | 3.001 |
| | GSM1900 | GPRS 2 Tx slots | Back | 0 | Handheld On | 810 | 1909.8 | 26.75 | 28.00 | 1.334 | -0.07 | 1.670 | 2.227 |
| 67 | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 512 | 1850.2 | 26.73 | 28.00 | 1.340 | 0.09 | 2.630 | 3.523 |
| | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 661 | 1880 | 26.79 | 28.00 | 1.321 | 0.03 | 2.330 | 3.079 |
| | GSM1900 | GPRS 2 Tx slots | Bottom Side | 0 | Handheld On | 810 | 1909.8 | 26.75 | 28.00 | 1.334 | 0.09 | 2.250 | 3.000 |



<WCDMA 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 | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------------|--------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | WCDMA Band V | RMC 12.2Kbps | Front | 0 | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | 0.06 | 2.480 | 2.509 |
| | WCDMA Band V | RMC 12.2Kbps | Front | 0 | Full | 4182 | 836.4 | 23.90 | 24.00 | 1.023 | 0.09 | 2.560 | 2.620 |
| | WCDMA Band V | RMC 12.2Kbps | Front | 0 | Full | 4233 | 846.6 | 23.88 | 24.00 | 1.028 | 0.11 | 2.720 | 2.796 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 0 | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | 0.06 | 3.050 | 3.085 |
| 68 | WCDMA Band V | RMC 12.2Kbps | Back | 0 | Full | 4182 | 836.4 | 23.90 | 24.00 | 1.023 | 0.11 | 3.160 | 3.234 |
| | WCDMA Band V | RMC 12.2Kbps | Back | 0 | Full | 4233 | 846.6 | 23.88 | 24.00 | 1.028 | -0.01 | 2.920 | 3.002 |
| | WCDMA Band V | RMC 12.2Kbps | Bottom Side | 0 | Full | 4132 | 826.4 | 23.95 | 24.00 | 1.012 | 0.09 | 1.370 | 1.386 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 0 | Handheld On | 1513 | 1752.6 | 18.99 | 19.00 | 1.002 | 0.04 | 2.500 | 2.506 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 0 | Handheld On | 1312 | 1712.4 | 18.97 | 19.00 | 1.007 | 0.06 | 2.560 | 2.578 |
| | WCDMA Band IV | RMC 12.2Kbps | Front | 0 | Handheld On | 1413 | 1732.6 | 18.97 | 19.00 | 1.007 | 0.04 | 2.580 | 2.598 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 0 | Handheld On | 1513 | 1752.6 | 18.99 | 19.00 | 1.002 | 0.06 | 2.910 | 2.917 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 0 | Handheld On | 1312 | 1712.4 | 18.97 | 19.00 | 1.007 | 0.06 | 2.870 | 2.890 |
| | WCDMA Band IV | RMC 12.2Kbps | Back | 0 | Handheld On | 1413 | 1732.6 | 18.97 | 19.00 | 1.007 | 0.04 | 2.530 | 2.548 |
| | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1513 | 1752.6 | 18.99 | 19.00 | 1.002 | 0.05 | 2.840 | 2.847 |
| | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1312 | 1712.4 | 18.97 | 19.00 | 1.007 | 0.08 | 2.980 | 3.001 |
| 69 | WCDMA Band IV | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 1413 | 1732.6 | 18.97 | 19.00 | 1.007 | 0.08 | 3.060 | 3.081 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9262 | 1852.4 | 20.44 | 20.50 | 1.014 | 0.06 | 2.650 | 2.687 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9400 | 1880 | 20.39 | 20.50 | 1.026 | -0.03 | 2.420 | 2.482 |
| | WCDMA Band II | RMC 12.2Kbps | Front | 0 | Handheld On | 9538 | 1907.6 | 20.38 | 20.50 | 1.028 | 0.07 | 2.310 | 2.375 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 0 | Handheld On | 9262 | 1852.4 | 20.44 | 20.50 | 1.014 | 0.14 | 3.080 | 3.123 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 0 | Handheld On | 9400 | 1880 | 20.39 | 20.50 | 1.026 | 0.05 | 2.080 | 2.133 |
| | WCDMA Band II | RMC 12.2Kbps | Back | 0 | Handheld On | 9538 | 1907.6 | 20.38 | 20.50 | 1.028 | 0.07 | 1.900 | 1.953 |
| 70 | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9262 | 1852.4 | 20.44 | 20.50 | 1.014 | 0.02 | 3.250 | 3.295 |
| | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9400 | 1880 | 20.39 | 20.50 | 1.026 | 0.06 | 3.060 | 3.138 |
| | WCDMA Band II | RMC 12.2Kbps | Bottom Side | 0 | Handheld On | 9538 | 1907.6 | 20.38 | 20.50 | 1.028 | 0.08 | 3.020 | 3.105 |



<CDMA2000 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 | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------------|----------------|---------------|----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | CDMA2000 BC10 | RTAP 153.6Kbps | Front | 0 | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | -0.05 | 2.470 | 2.628 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Front | 0 | Full | 580 | 820.5 | 25.20 | 25.50 | 1.072 | -0.16 | 2.540 | 2.722 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Front | 0 | Full | 684 | 823.1 | 25.17 | 25.50 | 1.079 | -0.06 | 2.580 | 2.784 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 0 | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | 0.06 | 2.980 | 3.171 |
| 71 | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 0 | Full | 580 | 820.5 | 25.20 | 25.50 | 1.072 | -0.09 | 3.020 | 3.236 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Back | 0 | Full | 684 | 823.1 | 25.17 | 25.50 | 1.079 | -0.03 | 2.580 | 2.784 |
| | CDMA2000 BC10 | RTAP 153.6Kbps | Bottom Side | 0 | Full | 476 | 817.9 | 25.23 | 25.50 | 1.064 | 0.05 | 1.260 | 1.341 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Front | 0 | Full | 1013 | 824.7 | 25.04 | 25.50 | 1.112 | -0.03 | 2.490 | 2.768 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Front | 0 | Full | 384 | 836.52 | 25.00 | 25.50 | 1.122 | -0.17 | 2.640 | 2.962 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Front | 0 | Full | 777 | 848.31 | 24.97 | 25.50 | 1.130 | -0.01 | 2.630 | 2.971 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 0 | Full | 1013 | 824.7 | 25.04 | 25.50 | 1.112 | -0.12 | 2.940 | 3.268 |
| 72 | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 0 | Full | 384 | 836.52 | 25.00 | 25.50 | 1.122 | 0.04 | 3.050 | 3.422 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Back | 0 | Full | 777 | 848.31 | 24.97 | 25.50 | 1.130 | -0.01 | 2.480 | 2.802 |
| | CDMA2000 BC0 | RTAP 153.6Kbps | Bottom Side | 0 | Full | 1013 | 824.7 | 25.04 | 25.50 | 1.112 | -0.03 | 1.210 | 1.345 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 600 | 1880 | 21.50 | 22.00 | 1.122 | 0.01 | 2.280 | 2.558 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 25 | 1851.25 | 21.39 | 22.00 | 1.151 | 0.06 | 2.350 | 2.704 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Front | 0 | Handheld On | 1175 | 1908.75 | 21.49 | 22.00 | 1.125 | 0.02 | 2.200 | 2.474 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 600 | 1880 | 21.50 | 22.00 | 1.122 | 0.15 | 2.740 | 3.074 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 25 | 1851.25 | 21.39 | 22.00 | 1.151 | -0.07 | 2.860 | 3.291 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Back | 0 | Handheld On | 1175 | 1908.75 | 21.49 | 22.00 | 1.125 | 0.02 | 2.460 | 2.767 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 600 | 1880 | 21.50 | 22.00 | 1.122 | 0.08 | 3.130 | 3.512 |
| | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 25 | 1851.25 | 21.39 | 22.00 | 1.151 | 0.06 | 3.010 | 3.464 |
| 73 | CDMA2000 BC1 | RTAP 153.6Kbps | Bottom Side | 0 | Handheld On | 1175 | 1908.75 | 21.49 | 22.00 | 1.125 | 0.01 | 3.160 | 3.554 |



<FDD LTE SAR>

| Plot 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) | Reported 10g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 74 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 0 | Full | 23095 | 707.5 | 22.68 | 24.00 | 1.355 | 0.12 | 2.180 | 2.954 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 0 | Full | 23095 | 707.5 | 21.82 | 23.00 | 1.312 | -0.07 | 1.210 | 1.588 |
| | LTE Band 12 | 10M | QPSK | 50 | 0 | Back | 0 | Full | 23095 | 707.5 | 21.79 | 23.00 | 1.321 | 0.01 | 1.220 | 1.612 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 0 | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | -0.17 | 1.490 | 1.942 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 0 | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | 0.01 | 0.991 | 1.312 |
| 75 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 0 | Full | 23230 | 782 | 22.85 | 24.00 | 1.303 | 0.08 | 2.360 | 3.075 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 0 | Full | 23230 | 782 | 21.78 | 23.00 | 1.324 | -0.01 | 1.550 | 2.053 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 0 | Full | 23230 | 782 | 21.75 | 23.00 | 1.334 | -0.02 | 1.540 | 2.054 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Front | 0 | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.01 | 1.930 | 2.402 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Front | 0 | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.03 | 1.430 | 1.804 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Front | 0 | Full | 26865 | 831.5 | 21.95 | 23.00 | 1.274 | -0.01 | 1.430 | 1.821 |
| 76 | LTE Band 26 | 15M | QPSK | 1 | 0 | Back | 0 | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.19 | 2.740 | 3.410 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Back | 0 | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.06 | 1.420 | 1.792 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 0 | Full | 26865 | 831.5 | 21.95 | 23.00 | 1.274 | -0.08 | 1.410 | 1.796 |
| | LTE Band 26 | 15M | QPSK | 1 | 0 | Bottom Side | 0 | Full | 26865 | 831.5 | 23.05 | 24.00 | 1.245 | 0.08 | 0.931 | 1.159 |
| | LTE Band 26 | 15M | QPSK | 36 | 0 | Bottom Side | 0 | Full | 26865 | 831.5 | 21.99 | 23.00 | 1.262 | 0.02 | 0.673 | 0.849 |
| | LTE Band 5 | 10M | QPSK | 1 | 0 | Back | 0 | Full | 20476(PCC) + 20575(SCC) | 831.6(PCC) + 841.5(SCC) | 23.50 | 24.00 | 1.122 | 0.09 | 1.500 | 1.683 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 0 | Handheld On | 132572 | 1770 | 18.68 | 19.00 | 1.076 | 0.04 | 1.710 | 1.841 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Front | 0 | Handheld On | 132572 | 1770 | 18.54 | 19.00 | 1.112 | 0.06 | 1.730 | 1.923 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 132572 | 1770 | 18.68 | 19.00 | 1.076 | 0.09 | 2.590 | 2.788 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 132072 | 1720 | 18.68 | 19.00 | 1.076 | -0.04 | 2.450 | 2.637 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 132322 | 1745 | 18.53 | 19.00 | 1.114 | 0.05 | 2.560 | 2.853 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 0 | Handheld On | 132072 | 1720 | 18.63 | 19.00 | 1.089 | 0.06 | 2.680 | 2.918 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 0 | Handheld On | 132572 | 1770 | 18.54 | 19.00 | 1.112 | 0.07 | 2.610 | 2.902 |
| 77 | LTE Band 66 | 20M | QPSK | 50 | 24 | Back | 0 | Handheld On | 132322 | 1745 | 18.49 | 19.00 | 1.125 | 0.03 | 2.600 | 2.924 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Back | 0 | Handheld On | 132572 | 1770 | 18.57 | 19.00 | 1.104 | 0.05 | 2.610 | 2.882 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 18.68 | 19.00 | 1.076 | 0.06 | 2.530 | 2.723 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 132072 | 1720 | 18.68 | 19.00 | 1.076 | 0.08 | 2.500 | 2.691 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 132322 | 1745 | 18.53 | 19.00 | 1.114 | 0.03 | 2.500 | 2.786 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 0 | Handheld On | 132072 | 1720 | 18.63 | 19.00 | 1.089 | 0.06 | 2.470 | 2.690 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 18.54 | 19.00 | 1.112 | 0.02 | 2.530 | 2.813 |
| | LTE Band 66 | 20M | QPSK | 50 | 24 | Bottom Side | 0 | Handheld On | 132322 | 1745 | 18.49 | 19.00 | 1.125 | 0.04 | 2.510 | 2.823 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Bottom Side | 0 | Handheld On | 132572 | 1770 | 18.57 | 19.00 | 1.104 | 0.08 | 2.500 | 2.760 |



FCC SAR Test Report

Report No. : FA8D2801

| Plot 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) | Reported 10g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0 | Handheld On | 26340 | 1880 | 20.30 | 20.50 | 1.047 | 0.03 | 2.420 | 2.534 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0 | Handheld On | 26140 | 1860 | 20.20 | 20.50 | 1.072 | 0.08 | 2.430 | 2.604 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0 | Handheld On | 26590 | 1905 | 19.97 | 20.50 | 1.130 | 0.04 | 2.270 | 2.565 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26340 | 1880 | 20.14 | 20.50 | 1.086 | -0.01 | 2.450 | 2.662 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26140 | 1860 | 20.03 | 20.50 | 1.114 | -0.04 | 2.420 | 2.697 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 26590 | 1905 | 19.90 | 20.50 | 1.148 | 0.04 | 2.250 | 2.583 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Front | 0 | Handheld On | 26340 | 1880 | 20.07 | 20.50 | 1.104 | 0.03 | 2.290 | 2.528 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 26340 | 1880 | 20.30 | 20.50 | 1.047 | 0.08 | 2.890 | 3.026 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 26140 | 1860 | 20.20 | 20.50 | 1.072 | 0.02 | 2.890 | 3.097 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 26590 | 1905 | 19.97 | 20.50 | 1.130 | 0.03 | 2.620 | 2.960 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26340 | 1880 | 20.14 | 20.50 | 1.086 | 0.03 | 2.850 | 3.096 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26140 | 1860 | 20.03 | 20.50 | 1.114 | 0.16 | 2.820 | 3.142 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 26590 | 1905 | 19.90 | 20.50 | 1.148 | 0.02 | 2.610 | 2.997 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 0 | Handheld On | 26340 | 1880 | 20.07 | 20.50 | 1.104 | 0.04 | 2.800 | 3.091 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 26340 | 1880 | 20.30 | 20.50 | 1.047 | 0.09 | 3.010 | 3.152 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 20.20 | 20.50 | 1.072 | -0.07 | 2.860 | 3.065 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 26590 | 1905 | 19.97 | 20.50 | 1.130 | 0.03 | 2.850 | 3.220 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26340 | 1880 | 20.14 | 20.50 | 1.086 | 0.02 | 2.910 | 3.161 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26140 | 1860 | 20.03 | 20.50 | 1.114 | 0.07 | 2.800 | 3.120 |
| 78 | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 0 | Handheld On | 26590 | 1905 | 19.90 | 20.50 | 1.148 | 0.01 | 2.830 | 3.249 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Bottom Side | 0 | Handheld On | 26340 | 1880 | 20.07 | 20.50 | 1.104 | 0.01 | 2.890 | 3.191 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 0 | Handheld On | 27710 | 2310 | 19.67 | 20.00 | 1.079 | 0.09 | 1.310 | 1.413 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 0 | Handheld On | 27710 | 2310 | 19.66 | 20.00 | 1.081 | -0.07 | 1.440 | 1.557 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 0 | Handheld On | 27710 | 2310 | 19.67 | 20.00 | 1.079 | 0.04 | 2.490 | 2.687 |
| 79 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 0 | Handheld On | 27710 | 2310 | 19.66 | 20.00 | 1.081 | 0.09 | 2.710 | 2.931 |
| | LTE Band 30 | 10M | QPSK | 50 | 0 | Back | 0 | Handheld On | 27710 | 2310 | 19.63 | 20.00 | 1.089 | 0.04 | 2.680 | 2.918 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Bottom Side | 0 | Handheld On | 27710 | 2310 | 19.67 | 20.00 | 1.079 | 0.13 | 1.430 | 1.543 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Bottom Side | 0 | Handheld On | 27710 | 2310 | 19.66 | 20.00 | 1.081 | 0.06 | 1.510 | 1.633 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 0 | Handheld On | 21350 | 2560 | 20.53 | 21.00 | 1.114 | 0.02 | 1.040 | 1.159 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 0 | Handheld On | 21350 | 2560 | 20.53 | 21.00 | 1.114 | 0.08 | 1.040 | 1.159 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 21350 | 2560 | 20.53 | 21.00 | 1.114 | 0.04 | 2.090 | 2.329 |
| 80 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 20850 | 2510 | 20.44 | 21.00 | 1.138 | -0.12 | 2.120 | 2.412 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 0 | Handheld On | 21100 | 2535 | 20.52 | 21.00 | 1.117 | -0.07 | 2.070 | 2.312 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 21350 | 2560 | 20.53 | 21.00 | 1.114 | 0.02 | 2.070 | 2.307 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 20850 | 2510 | 20.49 | 21.00 | 1.125 | 0.03 | 2.120 | 2.384 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 0 | Handheld On | 21100 | 2535 | 20.49 | 21.00 | 1.125 | 0.1 | 2.050 | 2.305 |
| | LTE Band 7 | 20M | QPSK | 100 | 0 | Back | 0 | Handheld On | 21350 | 2560 | 20.55 | 21.00 | 1.109 | -0.05 | 2.040 | 2.263 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Class | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------------------------------|-------------------------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 40185 | 2549.5 | 23.50 | 24.00 | 1.122 | 62.9 | 1.006 | 0.19 | 2.450 | 2.765 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 39750 | 2506 | 23.43 | 24.00 | 1.140 | 62.9 | 1.006 | 0.18 | 2.470 | 2.833 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 40620 | 2593 | 23.46 | 24.00 | 1.132 | 62.9 | 1.006 | -0.08 | 2.560 | 2.916 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 41055 | 2636.5 | 23.35 | 24.00 | 1.161 | 62.9 | 1.006 | -0.11 | 2.600 | 3.038 |
| 81 | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 41490 | 2680 | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | -0.01 | 2.910 | 3.384 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 41490(PCC) + 41292(SCC) | 2680(PCC) + 2660.2(SCC) | 23.47 | 24.00 | 1.130 | 62.9 | 1.006 | -0.09 | 2.260 | 2.569 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 2 | Handheld On | 40185 | 2549.5 | 23.70 | 24.00 | 1.072 | 42.9 | 1.009 | 0.01 | 2.140 | 2.314 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 2 | Handheld On | 39750 | 2506 | 23.50 | 24.00 | 1.122 | 42.9 | 1.009 | 0.02 | 2.150 | 2.434 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 2 | Handheld On | 40620 | 2593 | 23.69 | 24.00 | 1.074 | 42.9 | 1.009 | 0.05 | 2.170 | 2.352 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 2 | Handheld On | 41055 | 2636.5 | 23.57 | 24.00 | 1.104 | 42.9 | 1.009 | 0.03 | 2.210 | 2.462 |
| | LTE Band 41 | 20M | QPSK | 1 | 0 | Back | 0 | 2 | Handheld On | 41490 | 2680 | 23.62 | 24.00 | 1.091 | 42.9 | 1.009 | 0.02 | 2.300 | 2.533 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 40185 | 2549.5 | 23.80 | 24.00 | 1.047 | 42.9 | 1.009 | 0.03 | 2.180 | 2.303 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 39790 | 2510 | 23.69 | 24.00 | 1.074 | 42.9 | 1.009 | 0.06 | 2.180 | 2.362 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 39750 | 2506 | 23.62 | 24.00 | 1.091 | 42.9 | 1.009 | 0.06 | 2.200 | 2.423 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 40620 | 2593 | 23.78 | 24.00 | 1.052 | 42.9 | 1.009 | 0.06 | 2.210 | 2.346 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 41055 | 2636.5 | 23.72 | 24.00 | 1.067 | 42.9 | 1.009 | 0.01 | 2.120 | 2.282 |
| | LTE Band 41 | 20M | QPSK | 50 | 0 | Back | 0 | 2 | Handheld On | 41490 | 2680 | 23.73 | 24.00 | 1.064 | 42.9 | 1.009 | 0.09 | 2.270 | 2.437 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Back | 0 | 2 | Handheld On | 40185 | 2549.5 | 23.73 | 24.00 | 1.064 | 42.9 | 1.009 | 0.08 | 2.030 | 2.180 |

<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) |
|----------|-------------|-------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------|-------------------------|-------------------------|
| 82 | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | -0.09 | 8.105 | 0.880 | 1.120 |
| | WLAN5.3GHz | 802.11a 6Mbps | Back | 0 | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | 0.01 | 5.509 | 0.520 | 0.662 |
| | WLAN5.3GHz | 802.11a 6Mbps | Right Side | 0 | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | | 0.451 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Top Side | 0 | Full | 56 | 5280 | 19.03 | 20.00 | 1.250 | 98.28 | 1.018 | | 1.221 | | |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | Full | 52 | 5260 | 18.81 | 20.00 | 1.315 | 98.28 | 1.018 | 0 | | 0.566 | 0.758 |
| | WLAN5.3GHz | 802.11a 6Mbps | Front | 0 | Full | 64 | 5320 | 18.40 | 20.00 | 1.445 | 98.28 | 1.018 | 0.02 | | 0.681 | 1.002 |
| 83 | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Front | 0 | Full | 110 | 5550 | 19.25 | 19.50 | 1.059 | 96.32 | 1.038 | -0.08 | 10.668 | 1.210 | 1.330 |
| | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Back | 0 | Full | 110 | 5550 | 19.25 | 19.50 | 1.059 | 96.32 | 1.038 | 0.12 | 11.676 | 0.892 | 0.981 |
| | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Right Side | 0 | Full | 110 | 5550 | 19.25 | 19.50 | 1.059 | 96.32 | 1.038 | | 0.474 | | |
| | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Top Side | 0 | Full | 110 | 5550 | 19.25 | 19.50 | 1.059 | 96.32 | 1.038 | | 1.511 | | |
| | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Front | 0 | Full | 102 | 5510 | 19.09 | 19.50 | 1.099 | 96.32 | 1.038 | 0.03 | | 0.733 | 0.836 |
| | WLAN 5.5GHz | 802.11n-HT40 MCS0 | Front | 0 | Full | 134 | 5670 | 14.95 | 16.50 | 1.429 | 96.32 | 1.038 | 0.05 | | 0.589 | 0.874 |



15.5 TDD LTE Band 41(HPUE) Linearity Data Analysis

| LTE Band 41(HPUE)-Linearity Data for Head | | |
|---|--------------------------------|--------------------------------|
| | LTE Band 41 (Power Class 3) | LTE Band 41 (Power Class 2) |
| Maximum Tune up Power (dBm) | 24.00 | 27.50 |
| Reported 1g SAR (W/kg) | 0.151 | 0.250 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged (mW) | 159.00 | 243.49 |
| Linearity SAR (W/kg) | 0.231 | |
| % deviation from expected linearity | | 8.11% |

| LTE Band 41(HPUE)-Linearity Data for Hotspot | | |
|--|--------------------------------|--------------------------------|
| | LTE Band 41 (Power Class 3) | LTE Band 41 (Power Class 2) |
| Maximum Tune up Power (dBm) | 22.50 | 22.50 |
| Reported 1g SAR (W/kg) | 1.398 | 0.922 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged (mW) | 112.57 | 77.00 |
| Linearity SAR (W/kg) | 0.956 | |
| % deviation from expected linearity | | -3.59% |

| LTE Band 41(HPUE)-Linearity Data for Body-worn | | |
|--|--------------------------------|--------------------------------|
| | LTE Band 41 (Power Class 3) | LTE Band 41 (Power Class 2) |
| Maximum Tune up Power (dBm) | 22.50 | 22.50 |
| Reported 1g SAR (W/kg) | 1.398 | 0.922 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged (mW) | 112.57 | 77.00 |
| Linearity SAR (W/kg) | 0.956 | |
| % deviation from expected linearity | | -3.59% |

| LTE Band 41(HPUE)-Linearity Data for Product specific 10g SAR | | |
|---|--------------------------------|--------------------------------|
| | LTE Band 41 (Power Class 3) | LTE Band 41 (Power Class 2) |
| Maximum Tune up Power (dBm) | 24.00 | 24.00 |
| Reported 1g SAR (W/kg) | 3.384 | 2.533 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged (mW) | 159.00 | 108.76 |
| Linearity SAR (W/kg) | 2.315 | |
| % deviation from expected linearity | | 9.43% |

General Note:

1. The device can adjust uplink/downlink configuration automatically according to the transmitting power class level for LTE band 41.
2. According to TCB Workshop May 2017, Rel. 14 has introduced HPUE Power Class 2 for Band 41. HPUE Power Class 2 does not support uplink downlink configurations 0 and 6.
3. Power class 3 is expected to be the dominant use configuration; therefore, SAR should be tested as normally required.
4. Power class 2 is tested using the highest SAR test configuration in power class 3 of each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in power class 2.
5. Separate SAR testing for Power Class 2 is not required when
 - the reported SAR vs. output power can be linearly scaled with < 10%
 - discrepancy between power classes and all *reported* 1g SAR are < 1.4 W/kg (The same procedures should be adapted for measurements according to extremity limits by applying a factor of 2.5 for extremity exposure.)



15.6 Repeated SAR Measurement

<1g SAR>

| No. | Band | Mode | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Class | Headset | 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 | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Back | 5 | - | - | Hotspot On/ P-Sensor On | 23230 | 782 | 21.23 | 22.00 | 1.194 | - | - | 0.04 | 1.040 | 1 | 1.242 |
| 2nd | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Back | 5 | - | - | Hotspot On/ P-Sensor On | 23230 | 782 | 21.23 | 22.00 | 1.194 | - | - | -0.05 | 1.020 | 1.020 | 1.218 |
| 1st | WCDMA Band V | RMC 12.2Kbps | - | - | - | - | Back | 5 | - | - | Hotspot On/ P-Sensor On | 4233 | 846.6 | 20.91 | 21.00 | 1.021 | - | - | 0.06 | 1.370 | 1 | 1.399 |
| 2nd | WCDMA Band V | RMC 12.2Kbps | - | - | - | - | Back | 5 | - | - | Hotspot On/ P-Sensor On | 4233 | 846.6 | 20.91 | 21.00 | 1.021 | - | - | -0.02 | 1.330 | 1.030 | 1.358 |
| 1st | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Back | 5 | - | - | Hotspot On/ P-Sensor On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | - | - | 0.12 | 1.370 | 1 | 1.383 |
| 2nd | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Back | 5 | - | - | Hotspot On/ P-Sensor On | 1413 | 1732.6 | 16.46 | 16.50 | 1.009 | - | - | 0.08 | 1.340 | 1.022 | 1.352 |
| 1st | CDMA 2000 BC1 | RTAP 153.6Kbps | - | - | - | - | Bottom Side | 5 | - | - | Hotspot On | 1175 | 1908.75 | 17.64 | 18.00 | 1.086 | - | - | 0.06 | 1.320 | 1 | 1.434 |
| 2nd | CDMA 2000 BC1 | RTAP 153.6Kbps | - | - | - | - | Bottom Side | 5 | - | - | Hotspot On | 1175 | 1908.75 | 17.64 | 18.00 | 1.086 | - | - | 0.01 | 1.300 | 1.015 | 1.412 |
| 1st | LTE Band 30 | - | 10M | QPSK | 1 | 0 | Back | 5 | - | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | | | 0.13 | 0.954 | 1 | 1.098 |
| 2nd | LTE Band 30 | - | 10M | QPSK | 1 | 0 | Back | 5 | - | - | P-Sensor On | 27710 | 2310 | 16.39 | 17.00 | 1.151 | | | 0.01 | 0.948 | 1.006 | 1.091 |
| 1st | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Back | 5 | 3 | - | P-Sensor On | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.13 | 1.250 | 1 | 1.398 |
| 2nd | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Back | 5 | 3 | - | P-Sensor On | 40185 | 2549.5 | 22.04 | 22.50 | 1.112 | 62.9 | 1.006 | 0.02 | 1.210 | 1.033 | 1.353 |
| 1st | WLAN 2.4GHz | 802.11b 1Mbps | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | 0.13 | 0.857 | 1 | 0.946 |
| 2nd | WLAN 2.4GHz | 802.11b 1Mbps | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 6 | 2437 | 18.07 | 18.50 | 1.104 | 100 | 1.000 | 0.01 | 0.838 | 1.023 | 0.925 |
| 1st | WLAN5.3GHz | 802.11a 6Mbps | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 64 | 5320 | 16.46 | 17.50 | 1.271 | 98.28 | 1.018 | 0.07 | 0.861 | 1 | 1.114 |
| 2nd | WLAN5.3GHz | 802.11a 6Mbps | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 64 | 5320 | 16.46 | 17.50 | 1.271 | 98.28 | 1.018 | 0.05 | 0.853 | 1.009 | 1.103 |
| 1st | WLAN5.5GHz | 802.11n-HT40 MCS0 | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 102 | 5510 | 16.72 | 17.50 | 1.196 | 96.32 | 1.038 | -0.09 | 0.917 | 1 | 1.138 |
| 2nd | WLAN5.5GHz | 802.11n-HT40 MCS0 | - | - | - | - | Left Cheek | 0 | - | - | Receiver on | 102 | 5510 | 16.72 | 17.50 | 1.196 | 96.32 | 1.038 | 0.01 | 0.906 | 1.012 | 1.125 |



<10g SAR>

| No. | Band | Mode | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Power Class | 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) | Ratio | Reported 10g SAR (W/kg) |
|-----|---------------|--------------|----------|------------|---------|-----------|---------------|----------|-------------|-------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Back | 0 | - | - | 23230 | 782 | 22.85 | 24.00 | 1.303 | - | - | 0.08 | 2.360 | 1 | 3.075 |
| 2nd | LTE Band 13 | - | 10M | QPSK | 1 | 0 | Back | 0 | - | - | 23230 | 782 | 22.85 | 24.00 | 1.303 | - | - | 0.1 | 2.280 | 1.035 | 2.971 |
| 1st | WCDMA Band V | RMC 12.2Kbps | - | - | - | - | Back | 0 | - | Full | 4182 | 836.4 | 23.90 | 24.00 | 1.023 | - | - | 0.11 | 3.160 | 1 | 3.234 |
| 2nd | WCDMA Band V | RMC 12.2Kbps | - | - | - | - | Back | 0 | - | Full | 4182 | 836.4 | 23.90 | 24.00 | 1.023 | - | - | 0.11 | 3.130 | 1.010 | 3.203 |
| 1st | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Bottom Side | 0 | - | Handheld On | 1413 | 1732.6 | 18.97 | 19.00 | 1.007 | - | - | 0.08 | 3.060 | 1 | 3.081 |
| 2nd | WCDMA Band IV | RMC 12.2Kbps | - | - | - | - | Bottom Side | 0 | - | Handheld On | 1413 | 1732.6 | 18.97 | 19.00 | 1.007 | - | - | 0.08 | 3.010 | 1.017 | 3.031 |
| 1st | WCDMA Band II | RMC 12.2Kbps | - | - | - | - | Bottom Side | 0 | - | Handheld On | 9262 | 1852.4 | 20.44 | 20.50 | 1.014 | - | - | 0.02 | 3.250 | 1 | 3.295 |
| 2nd | WCDMA Band II | RMC 12.2Kbps | - | - | - | - | Bottom Side | 0 | - | Handheld On | 9262 | 1852.4 | 20.44 | 20.50 | 1.014 | - | - | -0.01 | 3.220 | 1.009 | 3.265 |
| 1st | LTE Band 30 | - | 10M | QPSK | 25 | 0 | Back | 0 | - | Handheld On | 27710 | 2310 | 19.66 | 20.00 | 1.081 | - | - | 0.09 | 2.710 | 1 | 2.931 |
| 2nd | LTE Band 30 | - | 10M | QPSK | 25 | 0 | Back | 0 | - | Handheld On | 27710 | 2310 | 19.66 | 20.00 | 1.081 | - | - | 0.18 | 2.700 | 1.004 | 2.920 |
| 1st | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 41490 | 2680 | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | -0.01 | 2.910 | 1 | 3.384 |
| 2nd | LTE Band 41 | - | 20M | QPSK | 1 | 0 | Back | 0 | 3 | Full | 41490 | 2680 | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | 0.06 | 2.870 | 1.014 | 3.338 |

General Note:

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

16. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations | Portable Handset | | |
|-----|--|------------------|-----------|---------|
| | | Head | Body-worn | Hotspot |
| 1. | GSM Voice + WLAN2.4GHz | Yes | Yes | |
| 2. | GPRS/EDGE + WLAN2.4GHz | Yes | Yes | Yes |
| 3. | WCDMA + WLAN2.4GHz | Yes | Yes | Yes |
| 4. | CDMA + WLAN2.4GHz | Yes | Yes | Yes |
| 5. | LTE + WLAN2.4GHz | Yes | Yes | Yes |
| 6. | GSM Voice + WLAN5.3/5.5GHz | Yes | Yes | |
| 7. | GPRS/EDGE + WLAN5.3/5.5GHz | Yes | Yes | |
| 8. | WCDMA + WLAN5.3/5.5GHz | Yes | Yes | |
| 9. | CDMA + WLAN5.3/5.5GHz | Yes | Yes | |
| 10. | LTE + WLAN5.3/5.5GHz | Yes | Yes | |
| 11. | GSM Voice + WLAN5.2/5.8GHz | Yes | Yes | |
| 12. | GPRS/EDGE + WLAN5.2/5.8GHz | Yes | Yes | Yes |
| 13. | WCDMA + WLAN5.2/5.8GHz | Yes | Yes | Yes |
| 14. | CDMA + WLAN5.2/5.8GHz | Yes | Yes | Yes |
| 15. | LTE + WLAN5.2/5.8GHz | Yes | Yes | Yes |
| 16. | GSM Voice + Bluetooth | Yes | Yes | |
| 17. | GPRS/EDGE + Bluetooth | Yes | Yes | Yes |
| 18. | WCDMA + Bluetooth | Yes | Yes | Yes |
| 19. | CDMA + Bluetooth | Yes | Yes | Yes |
| 20. | LTE + Bluetooth | Yes | Yes | Yes |

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. 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 character of the EUT, WLAN 5GHz and Bluetooth can't transmit simultaneously.
8. The reported SAR summation is calculated based on the same configuration and test position.
9. 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) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR, $SPLSR \leq 0.10$ 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 16.5.



16.1 Head Exposure Conditions

| WWAN Band | | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | 1+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) | | | |
| GSM | GSM850 | Right Cheek | 0.358 | 1.003 | 1.138 | 0.024 | 1.36 | 1.50 | 0.38 |
| | | Right Tilted | 0.190 | 1.003 | 1.138 | 0.026 | 1.19 | 1.33 | 0.22 |
| | | Left Cheek | 0.256 | 1.003 | 1.138 | 0.096 | 1.26 | 1.39 | 0.35 |
| | | Left Tilted | 0.175 | 0.474 | 0.752 | 0.038 | 0.65 | 0.93 | 0.21 |
| | GSM1900 | Right Cheek | 0.086 | 1.003 | 1.138 | 0.024 | 1.09 | 1.22 | 0.11 |
| | | Right Tilted | 0.066 | 1.003 | 1.138 | 0.026 | 1.07 | 1.20 | 0.09 |
| | | Left Cheek | 0.113 | 1.003 | 1.138 | 0.096 | 1.12 | 1.25 | 0.21 |
| | | Left Tilted | 0.073 | 0.474 | 0.752 | 0.038 | 0.55 | 0.83 | 0.11 |
| WCDMA | Band V | Right Cheek | 0.290 | 1.003 | 1.138 | 0.024 | 1.29 | 1.43 | 0.31 |
| | | Right Tilted | 0.120 | 1.003 | 1.138 | 0.026 | 1.12 | 1.26 | 0.15 |
| | | Left Cheek | 0.174 | 1.003 | 1.138 | 0.096 | 1.18 | 1.31 | 0.27 |
| | | Left Tilted | 0.126 | 0.474 | 0.752 | 0.038 | 0.60 | 0.88 | 0.16 |
| | Band IV | Right Cheek | 0.163 | 1.003 | 1.138 | 0.024 | 1.17 | 1.30 | 0.19 |
| | | Right Tilted | 0.095 | 1.003 | 1.138 | 0.026 | 1.10 | 1.23 | 0.12 |
| | | Left Cheek | 0.242 | 1.003 | 1.138 | 0.096 | 1.25 | 1.38 | 0.34 |
| | | Left Tilted | 0.106 | 0.474 | 0.752 | 0.038 | 0.58 | 0.86 | 0.14 |
| | Band II | Right Cheek | 0.125 | 1.003 | 1.138 | 0.024 | 1.13 | 1.26 | 0.15 |
| | | Right Tilted | 0.082 | 1.003 | 1.138 | 0.026 | 1.09 | 1.22 | 0.11 |
| | | Left Cheek | 0.137 | 1.003 | 1.138 | 0.096 | 1.14 | 1.28 | 0.23 |
| | | Left Tilted | 0.089 | 0.474 | 0.752 | 0.038 | 0.56 | 0.84 | 0.13 |
| CDMA2000 | BC10 | Right Cheek | 0.325 | 1.003 | 1.138 | 0.024 | 1.33 | 1.46 | 0.35 |
| | | Right Tilted | 0.149 | 1.003 | 1.138 | 0.026 | 1.15 | 1.29 | 0.18 |
| | | Left Cheek | 0.195 | 1.003 | 1.138 | 0.096 | 1.20 | 1.33 | 0.29 |
| | | Left Tilted | 0.145 | 0.474 | 0.752 | 0.038 | 0.62 | 0.90 | 0.18 |
| | BC0 | Right Cheek | 0.317 | 1.003 | 1.138 | 0.024 | 1.32 | 1.46 | 0.34 |
| | | Right Tilted | 0.152 | 1.003 | 1.138 | 0.026 | 1.16 | 1.29 | 0.18 |
| | | Left Cheek | 0.194 | 1.003 | 1.138 | 0.096 | 1.20 | 1.33 | 0.29 |
| | | Left Tilted | 0.144 | 0.474 | 0.752 | 0.038 | 0.62 | 0.90 | 0.18 |
| | BC1 | Right Cheek | 0.114 | 1.003 | 1.138 | 0.024 | 1.12 | 1.25 | 0.14 |
| | | Right Tilted | 0.071 | 1.003 | 1.138 | 0.026 | 1.07 | 1.21 | 0.10 |
| | | Left Cheek | 0.174 | 1.003 | 1.138 | 0.096 | 1.18 | 1.31 | 0.27 |
| | | Left Tilted | 0.112 | 0.474 | 0.752 | 0.038 | 0.59 | 0.86 | 0.15 |



| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | 1+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) | | | | |
| LTE | Band 71 | Right Cheek | 0.123 | 1.003 | 1.138 | 0.024 | 1.13 | 1.26 | 0.15 |
| | | Right Tilted | <0.001 | 1.003 | 1.138 | 0.026 | 1.00 | 1.14 | 0.03 |
| | | Left Cheek | 0.092 | 1.003 | 1.138 | 0.096 | 1.10 | 1.23 | 0.19 |
| | | Left Tilted | <0.001 | 0.474 | 0.752 | 0.038 | 0.48 | 0.75 | 0.04 |
| | Band 12 | Right Cheek | 0.293 | 1.003 | 1.138 | 0.024 | 1.30 | 1.43 | 0.32 |
| | | Right Tilted | 0.142 | 1.003 | 1.138 | 0.026 | 1.15 | 1.28 | 0.17 |
| | | Left Cheek | 0.221 | 1.003 | 1.138 | 0.096 | 1.22 | 1.36 | 0.32 |
| | | Left Tilted | 0.130 | 0.474 | 0.752 | 0.038 | 0.60 | 0.88 | 0.17 |
| | Band 13 | Right Cheek | 0.302 | 1.003 | 1.138 | 0.024 | 1.31 | 1.44 | 0.33 |
| | | Right Tilted | 0.138 | 1.003 | 1.138 | 0.026 | 1.14 | 1.28 | 0.16 |
| | | Left Cheek | 0.197 | 1.003 | 1.138 | 0.096 | 1.20 | 1.34 | 0.29 |
| | | Left Tilted | 0.108 | 0.474 | 0.752 | 0.038 | 0.58 | 0.86 | 0.15 |
| | Band 26 | Right Cheek | 0.334 | 1.003 | 1.138 | 0.024 | 1.34 | 1.47 | 0.36 |
| | | Right Tilted | 0.152 | 1.003 | 1.138 | 0.026 | 1.16 | 1.29 | 0.18 |
| | | Left Cheek | 0.214 | 1.003 | 1.138 | 0.096 | 1.22 | 1.35 | 0.31 |
| | | Left Tilted | 0.111 | 0.474 | 0.752 | 0.038 | 0.59 | 0.86 | 0.15 |
| | Band 66 | Right Cheek | 0.185 | 1.003 | 1.138 | 0.024 | 1.19 | 1.32 | 0.21 |
| | | Right Tilted | 0.103 | 1.003 | 1.138 | 0.026 | 1.11 | 1.24 | 0.13 |
| | | Left Cheek | 0.332 | 1.003 | 1.138 | 0.096 | 1.34 | 1.47 | 0.43 |
| | | Left Tilted | 0.135 | 0.474 | 0.752 | 0.038 | 0.61 | 0.89 | 0.17 |
| | Band 25 | Right Cheek | 0.106 | 1.003 | 1.138 | 0.024 | 1.11 | 1.24 | 0.13 |
| | | Right Tilted | 0.064 | 1.003 | 1.138 | 0.026 | 1.07 | 1.20 | 0.09 |
| | | Left Cheek | 0.172 | 1.003 | 1.138 | 0.096 | 1.18 | 1.31 | 0.27 |
| | | Left Tilted | 0.110 | 0.474 | 0.752 | 0.038 | 0.58 | 0.86 | 0.15 |
| | Band 30 | Right Cheek | 0.286 | 1.003 | 1.138 | 0.024 | 1.29 | 1.42 | 0.31 |
| | | Right Tilted | 0.170 | 1.003 | 1.138 | 0.026 | 1.17 | 1.31 | 0.20 |
| | | Left Cheek | 0.326 | 1.003 | 1.138 | 0.096 | 1.33 | 1.46 | 0.42 |
| | | Left Tilted | 0.150 | 0.474 | 0.752 | 0.038 | 0.62 | 0.90 | 0.19 |
| | Band 7 | Right Cheek | 0.188 | 1.003 | 1.138 | 0.024 | 1.19 | 1.33 | 0.21 |
| | | Right Tilted | 0.126 | 1.003 | 1.138 | 0.026 | 1.13 | 1.26 | 0.15 |
| | | Left Cheek | 0.243 | 1.003 | 1.138 | 0.096 | 1.25 | 1.38 | 0.34 |
| | | Left Tilted | 0.074 | 0.474 | 0.752 | 0.038 | 0.55 | 0.83 | 0.11 |
| | Band 41 | Right Cheek | 0.095 | 1.003 | 1.138 | 0.024 | 1.10 | 1.23 | 0.12 |
| | | Right Tilted | 0.067 | 1.003 | 1.138 | 0.026 | 1.07 | 1.21 | 0.09 |
| | | Left Cheek | 0.250 | 1.003 | 1.138 | 0.096 | 1.25 | 1.39 | 0.35 |
| | | Left Tilted | 0.039 | 0.474 | 0.752 | 0.038 | 0.51 | 0.79 | 0.08 |



16.2 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 | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | 1g SAR (W/kg) | | | 1g SAR (W/kg) | | | |
| GSM | GSM850 | Front | 1.066 | 0.391 | 0.480 | 0.044 | 1.46 | | | 1.55 | | | 1.11 | | |
| | | Back | 1.434 | 0.726 | 1.112 | 0.075 | 2.16 | 0.02 | #01 | 2.55 | 0.03 | #37 | 1.51 | | |
| | | Left Side | 0.121 | | | | 0.12 | | | 0.12 | | | 0.12 | | |
| | | Right Side | 0.382 | 0.420 | 1.112 | 0.037 | 0.80 | | | 1.49 | | | 0.42 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | Bottom Side | 0.850 | | | | 0.85 | | | 0.85 | | | 0.85 | | | |
| | GSM1900 | Front | 0.951 | 0.391 | 0.480 | 0.044 | 1.34 | | | 1.43 | | | 1.00 | | |
| | | Back | 1.362 | 0.726 | 1.112 | 0.075 | 2.09 | 0.02 | #03 | 2.47 | 0.03 | #38 | 1.44 | | |
| | | Left Side | 0.071 | | | | 0.07 | | | 0.07 | | | 0.07 | | |
| | | Right Side | 0.051 | 0.420 | 1.112 | 0.037 | 0.47 | | | 1.16 | | | 0.09 | | |
| Top Side | | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| Bottom Side | 1.285 | | | | 1.29 | | | 1.29 | | | 1.29 | | | | |
| WCDMA | Band V | Front | 0.731 | 0.391 | 0.480 | 0.044 | 1.12 | | | 1.21 | | | 0.78 | | |
| | | Back | 1.399 | 0.726 | 1.112 | 0.075 | 2.13 | 0.02 | #05 | 2.51 | 0.03 | #39 | 1.47 | | |
| | | Left Side | 0.100 | | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Right Side | 0.329 | 0.420 | 1.112 | 0.037 | 0.75 | | | 1.44 | | | 0.37 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | Bottom Side | 0.623 | | | | 0.62 | | | 0.62 | | | 0.62 | | | |
| | Band IV | Front | 1.070 | 0.391 | 0.480 | 0.044 | 1.46 | | | 1.55 | | | 1.11 | | |
| | | Back | 1.383 | 0.726 | 1.112 | 0.075 | 2.11 | 0.02 | #07 | 2.50 | 0.03 | #40 | 1.46 | | |
| | | Left Side | 0.114 | | | | 0.11 | | | 0.11 | | | 0.11 | | |
| | | Right Side | 0.080 | 0.420 | 1.112 | 0.037 | 0.50 | | | 1.19 | | | 0.12 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | Bottom Side | 1.319 | | | | 1.32 | | | 1.32 | | | 1.32 | | | |
| | Band II | Front | 0.848 | 0.391 | 0.480 | 0.044 | 1.24 | | | 1.33 | | | 0.89 | | |
| | | Back | 1.225 | 0.726 | 1.112 | 0.075 | 1.95 | 0.02 | #09 | 2.34 | 0.02 | #41 | 1.30 | | |
| | | Left Side | 0.057 | | | | 0.06 | | | 0.06 | | | 0.06 | | |
| Right Side | | 0.058 | 0.420 | 1.112 | 0.037 | 0.48 | | | 1.17 | | | 0.10 | | | |
| Top Side | | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| Bottom Side | 1.169 | | | | 1.17 | | | 1.17 | | | 1.17 | | | | |
| CDMA2000 | BC10 | Front | 0.692 | 0.391 | 0.480 | 0.044 | 1.08 | | | 1.17 | | | 0.74 | | |
| | | Back | 1.127 | 0.726 | 1.112 | 0.075 | 1.85 | 0.02 | #42 | 2.24 | 0.02 | #72 | 1.20 | | |
| | | Left Side | 0.094 | | | | 0.09 | | | 0.09 | | | 0.09 | | |
| | | Right Side | 0.298 | 0.420 | 1.112 | 0.037 | 0.72 | | | 1.41 | | | 0.34 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | Bottom Side | 0.619 | | | | 0.62 | | | 0.62 | | | 0.62 | | | |
| | BC0 | Front | 0.716 | 0.391 | 0.480 | 0.044 | 1.11 | | | 1.20 | | | 0.76 | | |
| | | Back | 1.198 | 0.726 | 1.112 | 0.075 | 1.92 | 0.02 | #73 | 2.31 | 0.02 | #74 | 1.27 | | |
| | | Left Side | 0.100 | | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Right Side | 0.315 | 0.420 | 1.112 | 0.037 | 0.74 | | | 1.43 | | | 0.35 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | Bottom Side | 0.643 | | | | 0.64 | | | 0.64 | | | 0.64 | | | |
| | BC1 | Front | 0.983 | 0.391 | 0.480 | 0.044 | 1.37 | | | 1.46 | | | 1.03 | | |
| | | Back | 1.361 | 0.726 | 1.112 | 0.075 | 2.09 | 0.02 | #43 | 2.47 | 0.02 | #75 | 1.44 | | |
| | | Left Side | 0.077 | | | | 0.08 | | | 0.08 | | | 0.08 | | |
| Right Side | | 0.062 | 0.420 | 1.112 | 0.037 | 0.48 | | | 1.17 | | | 0.10 | | | |
| Top Side | | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| Bottom Side | 1.434 | | | | 1.43 | | | 1.43 | | | 1.43 | | | | |



| 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 | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | 1g SAR (W/kg) | | | 1g SAR (W/kg) | | | |
| LTE | Band 71 | Front | 0.532 | 0.391 | 0.480 | 0.044 | 0.92 | | | 1.01 | | | 0.58 | | |
| | | Back | 0.898 | 0.726 | 1.112 | 0.075 | 1.62 | 0.01 | #17 | 2.01 | 0.02 | #48 | 0.97 | | |
| | | Left Side | 0.186 | | | | 0.19 | | | 0.19 | | | 0.19 | | |
| | | Right Side | 0.347 | 0.420 | 1.112 | 0.037 | 0.77 | | | 1.46 | | | 0.38 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 0.678 | | | | 0.68 | | | 0.68 | | | 0.68 | | |
| | Band 12 | Front | 0.732 | 0.391 | 0.480 | 0.044 | 1.12 | | | 1.21 | | | 0.78 | | |
| | | Back | 1.116 | 0.726 | 1.112 | 0.075 | 1.84 | 0.02 | #19 | 2.23 | 0.02 | #49 | 1.19 | | |
| | | Left Side | 0.189 | | | | 0.19 | | | 0.19 | | | 0.19 | | |
| | | Right Side | 0.380 | 0.420 | 1.112 | 0.037 | 0.80 | | | 1.49 | | | 0.42 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 0.572 | | | | 0.57 | | | 0.57 | | | 0.57 | | |
| | Band 13 | Front | 0.813 | 0.391 | 0.480 | 0.044 | 1.20 | | | 1.29 | | | 0.86 | | |
| | | Back | 1.242 | 0.726 | 1.112 | 0.075 | 1.97 | 0.02 | #21 | 2.35 | 0.02 | #50 | 1.32 | | |
| | | Left Side | 0.207 | | | | 0.21 | | | 0.21 | | | 0.21 | | |
| | | Right Side | 0.379 | 0.420 | 1.112 | 0.037 | 0.80 | | | 1.49 | | | 0.42 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 0.616 | | | | 0.62 | | | 0.62 | | | 0.62 | | |
| | Band 26 | Front | 0.814 | 0.391 | 0.480 | 0.044 | 1.21 | | | 1.29 | | | 0.86 | | |
| | | Back | 1.383 | 0.726 | 1.112 | 0.075 | 2.11 | 0.02 | #23 | 2.50 | 0.02 | #51 | 1.46 | | |
| | | Left Side | 0.094 | | | | 0.09 | | | 0.09 | | | 0.09 | | |
| | | Right Side | 0.326 | 0.420 | 1.112 | 0.037 | 0.75 | | | 1.44 | | | 0.36 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 0.643 | | | | 0.64 | | | 0.64 | | | 0.64 | | |
| | Band 66 | Front | 0.995 | 0.391 | 0.480 | 0.044 | 1.39 | | | 1.48 | | | 1.04 | | |
| | | Back | 1.329 | 0.726 | 1.112 | 0.075 | 2.06 | 0.02 | #25 | 2.44 | 0.03 | #52 | 1.40 | | |
| | | Left Side | 0.082 | | | | 0.08 | | | 0.08 | | | 0.08 | | |
| | | Right Side | 0.084 | 0.420 | 1.112 | 0.037 | 0.50 | | | 1.20 | | | 0.12 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 1.206 | | | | 1.21 | | | 1.21 | | | 1.21 | | |
| | Band 25 | Front | 0.986 | 0.391 | 0.480 | 0.044 | 1.38 | | | 1.47 | | | 1.03 | | |
| | | Back | 1.329 | 0.726 | 1.112 | 0.075 | 2.06 | 0.02 | #27 | 2.44 | 0.03 | #53 | 1.40 | | |
| | | Left Side | 0.064 | | | | 0.06 | | | 0.06 | | | 0.06 | | |
| | | Right Side | 0.040 | 0.420 | 1.112 | 0.037 | 0.46 | | | 1.15 | | | 0.08 | | |
| | | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | |
| | | Bottom Side | 1.311 | | | | 1.31 | | | 1.31 | | | 1.31 | | |
| | Band 30 | Front | 0.414 | 0.391 | 0.480 | 0.044 | 0.81 | | | 0.89 | | | 0.46 | | |
| | | Back | 1.098 | 0.726 | 1.112 | 0.075 | 1.82 | 0.02 | #29 | 2.21 | 0.02 | #54 | 1.17 | | |
| | | Left Side | 0.435 | | | | 0.44 | | | 0.44 | | | 0.44 | | |
| | | Right Side | | 0.420 | 1.112 | 0.037 | 0.42 | | | 1.11 | | | 0.04 | | |
| Top Side | | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| Bottom Side | | 0.642 | | | | 0.64 | | | 0.64 | | | 0.64 | | | |
| Band 7 | Front | 0.647 | 0.391 | 0.480 | 0.044 | 1.04 | | | 1.13 | | | 0.69 | | | |
| | Back | 1.291 | 0.726 | 1.112 | 0.075 | 2.02 | 0.02 | #31 | 2.40 | 0.03 | #76 | 1.37 | | | |
| | Left Side | 0.533 | | | | 0.53 | | | 0.53 | | | 0.53 | | | |
| | Right Side | | 0.420 | 1.112 | 0.037 | 0.42 | | | 1.11 | | | 0.04 | | | |
| | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| | Bottom Side | 0.440 | | | | 0.44 | | | 0.44 | | | 0.44 | | | |
| Band 41 | Front | 0.527 | 0.391 | 0.480 | 0.044 | 0.92 | | | 1.01 | | | 0.57 | | | |
| | Back | 1.398 | 0.726 | 1.112 | 0.075 | 2.12 | 0.02 | #33 | 2.51 | 0.03 | #55 | 1.47 | | | |
| | Left Side | 0.574 | | | | 0.57 | | | 0.57 | | | 0.57 | | | |
| | Right Side | | 0.420 | 1.112 | 0.037 | 0.42 | | | 1.11 | | | 0.04 | | | |
| | Top Side | | 0.726 | 1.112 | 0.017 | 0.73 | | | 1.11 | | | 0.02 | | | |
| | Bottom Side | 0.474 | | | | 0.47 | | | 0.47 | | | 0.47 | | | |



16.3 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 | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | | | | | |
| GSM | GSM850 | Front | 1.066 | 0.391 | 0.459 | 0.044 | 1.46 | | | 1.53 | | | 1.11 | | |
| | | Back | 1.434 | 0.726 | 1.160 | 0.075 | 2.16 | 0.02 | #01 | 2.59 | 0.03 | #02 | 1.51 | | |
| | | Back with Headset | 0.452 | | | | 0.45 | | | 0.45 | | | 0.45 | | |
| | GSM1900 | Front | 0.951 | 0.391 | 0.459 | 0.044 | 1.34 | | | 1.41 | | | 1.00 | | |
| | | Back | 1.362 | 0.726 | 1.160 | 0.075 | 2.09 | 0.02 | #03 | 2.52 | 0.03 | #04 | 1.44 | | |
| | | Back with Headset | 0.710 | | | | 0.71 | | | 0.71 | | | 0.71 | | |
| WCDMA | Band V | Front | 0.731 | 0.391 | 0.459 | 0.044 | 1.12 | | | 1.19 | | | 0.78 | | |
| | | Back | 1.399 | 0.726 | 1.160 | 0.075 | 2.13 | 0.02 | #05 | 2.56 | 0.03 | #06 | 1.47 | | |
| | | Back with Headset | 0.990 | | | | 0.99 | | | 0.99 | | | 0.99 | | |
| | Band IV | Front | 1.070 | 0.391 | 0.459 | 0.044 | 1.46 | | | 1.53 | | | 1.11 | | |
| | | Back | 1.383 | 0.726 | 1.160 | 0.075 | 2.11 | 0.02 | #07 | 2.54 | 0.03 | #08 | 1.46 | | |
| | | Back with Headset | 0.808 | | | | 0.81 | | | 0.81 | | | 0.81 | | |
| | Band II | Front | 0.848 | 0.391 | 0.459 | 0.044 | 1.24 | | | 1.31 | | | 0.89 | | |
| | | Back | 1.225 | 0.726 | 1.160 | 0.075 | 1.95 | 0.02 | #09 | 2.39 | 0.02 | #10 | 1.30 | | |
| | | Back with Headset | 0.682 | | | | 0.68 | | | 0.68 | | | 0.68 | | |
| CDMA2000 | BC10 | Front | 0.775 | 0.391 | 0.459 | 0.044 | 1.17 | | | 1.23 | | | 0.82 | | |
| | | Back | 1.205 | 0.726 | 1.160 | 0.075 | 1.93 | 0.02 | #11 | 2.37 | 0.02 | #12 | 1.28 | | |
| | | Back with Headset | 0.894 | | | | 0.89 | | | 0.89 | | | 0.89 | | |
| | BC0 | Front | 0.838 | 0.391 | 0.459 | 0.044 | 1.23 | | | 1.30 | | | 0.88 | | |
| | | Back | 1.217 | 0.726 | 1.160 | 0.075 | 1.94 | 0.02 | #13 | 2.38 | 0.02 | #14 | 1.29 | | |
| | | Back with Headset | 0.897 | | | | 0.90 | | | 0.90 | | | 0.90 | | |
| | BC1 | Front | 0.927 | 0.391 | 0.459 | 0.044 | 1.32 | | | 1.39 | | | 0.97 | | |
| | | Back | 1.373 | 0.726 | 1.160 | 0.075 | 2.10 | 0.02 | #15 | 2.53 | 0.03 | #16 | 1.45 | | |
| | | Back with Headset | 0.837 | | | | 0.84 | | | 0.84 | | | 0.84 | | |
| LTE | Band 71 | Front | 0.532 | 0.391 | 0.459 | 0.044 | 0.92 | | | 0.99 | | | 0.58 | | |
| | | Back | 0.898 | 0.726 | 1.160 | 0.075 | 1.62 | 0.01 | #17 | 2.06 | 0.02 | #18 | 0.97 | | |
| | Band 12 | Front | 0.732 | 0.391 | 0.459 | 0.044 | 1.12 | | | 1.19 | | | 0.78 | | |
| | | Back | 1.116 | 0.726 | 1.160 | 0.075 | 1.84 | 0.02 | #19 | 2.28 | 0.02 | #20 | 1.19 | | |
| | Band 13 | Front | 0.813 | 0.391 | 0.459 | 0.044 | 1.20 | | | 1.27 | | | 0.86 | | |
| | | Back | 1.242 | 0.726 | 1.160 | 0.075 | 1.97 | 0.02 | #21 | 2.40 | 0.02 | #22 | 1.32 | | |
| | Band 26 | Back with Headset | 1.194 | | | | 1.19 | | | 1.19 | | | 1.19 | | |
| | | Front | 0.814 | 0.391 | 0.459 | 0.044 | 1.21 | | | 1.27 | | | 0.86 | | |
| | | Back | 1.383 | 0.726 | 1.160 | 0.075 | 2.11 | 0.02 | #23 | 2.54 | 0.02 | #24 | 1.46 | | |
| | Band 66 | Back with Headset | 1.254 | | | | 1.25 | | | 1.25 | | | 1.25 | | |
| | | Front | 0.995 | 0.391 | 0.459 | 0.044 | 1.39 | | | 1.45 | | | 1.04 | | |
| | | Back | 1.329 | 0.726 | 1.160 | 0.075 | 2.06 | 0.02 | #25 | 2.49 | 0.03 | #26 | 1.40 | | |
| | Band 25 | Back with Headset | 0.593 | | | | 0.59 | | | 0.59 | | | 0.59 | | |
| | | Front | 0.986 | 0.391 | 0.459 | 0.044 | 1.38 | | | 1.45 | | | 1.03 | | |
| | | Back | 1.329 | 0.726 | 1.160 | 0.075 | 2.06 | 0.02 | #27 | 2.49 | 0.03 | #28 | 1.40 | | |
| | Band 30 | Back with Headset | 0.717 | | | | 0.72 | | | 0.72 | | | 0.72 | | |
| | | Front | 0.414 | 0.391 | 0.459 | 0.044 | 0.81 | | | 0.87 | | | 0.46 | | |
| | | Back | 1.098 | 0.726 | 1.160 | 0.075 | 1.82 | 0.02 | #29 | 2.26 | 0.02 | #30 | 1.17 | | |
| | Band 7 | Front | 0.647 | 0.391 | 0.459 | 0.044 | 1.04 | | | 1.11 | | | 0.69 | | |
| | | Back | 1.291 | 0.726 | 1.160 | 0.075 | 2.02 | 0.02 | #31 | 2.45 | 0.03 | #32 | 1.37 | | |
| | | Back with Headset | 1.296 | | | | 1.30 | | | 1.30 | | | 1.30 | | |
| | Band 41 | Front | 0.527 | 0.391 | 0.459 | 0.044 | 0.92 | | | 0.99 | | | 0.57 | | |
| | | Back | 1.398 | 0.726 | 1.160 | 0.075 | 2.12 | 0.02 | #33 | 2.56 | 0.03 | #34 | 1.47 | | |
| | | Back with Headset | 1.370 | | | | 1.37 | | | 1.37 | | | 1.37 | | |



16.4 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 |
| | | | 10g SAR (W/kg) | 10g SAR (W/kg) | | | |
| GSM | GSM850 | Front | 2.469 | 1.330 | 3.80 | | |
| | | Back | 3.029 | 0.981 | 4.01 | 0.05 | #56 |
| | | Bottom Side | 1.234 | | 1.23 | | |
| | GSM1900 | Front | 2.251 | 1.330 | 3.58 | | |
| | | Back | 3.001 | 0.981 | 3.98 | | |
| | | Bottom Side | 3.523 | | 3.52 | | |
| WCDMA | Band V | Front | 2.796 | 1.330 | 4.13 | 0.05 | #59 |
| | | Back | 3.234 | 0.981 | 4.22 | 0.06 | #60 |
| | | Bottom Side | 1.386 | | 1.39 | | |
| | Band IV | Front | 2.598 | 1.330 | 3.93 | | |
| | | Back | 2.917 | 0.981 | 3.90 | | |
| | | Bottom Side | 3.081 | | 3.08 | | |
| | Band II | Front | 2.687 | 1.330 | 4.02 | 0.05 | #57 |
| | | Back | 3.123 | 0.981 | 4.10 | 0.05 | #58 |
| | | Bottom Side | 3.295 | | 3.30 | | |
| CDMA2000 | BC10 | Front | 2.784 | 1.330 | 4.11 | 0.05 | #65 |
| | | Back | 3.236 | 0.981 | 4.22 | 0.06 | #66 |
| | | Bottom Side | 1.341 | | 1.34 | | |
| | BC0 | Front | 2.971 | 1.330 | 4.30 | 0.05 | #61 |
| | | Back | 3.422 | 0.981 | 4.40 | 0.06 | #62 |
| | | Bottom Side | 1.345 | | 1.35 | | |
| | BC1 | Front | 2.704 | 1.330 | 4.03 | 0.05 | #63 |
| | | Back | 3.291 | 0.981 | 4.27 | 0.06 | #64 |
| | | Bottom Side | 3.554 | | 3.55 | | |
| | Band 13 | Back | 2.954 | 0.981 | 3.94 | | |
| | | Front | 1.942 | 1.330 | 3.27 | | |
| | Band 26 | Back | 3.075 | 0.981 | 4.06 | 0.05 | #67 |
| | | Front | 2.402 | 1.330 | 3.73 | | |
| | | Bottom Side | 3.410 | 0.981 | 4.39 | 0.06 | #70 |
| | Band 66 | Bottom Side | 1.159 | | 1.16 | | |
| | | Front | 1.923 | 1.330 | 3.25 | | |
| | | Back | 2.924 | 0.981 | 3.91 | | |
| | Band 25 | Bottom Side | 2.823 | | 2.82 | | |
| | | Front | 2.697 | 1.330 | 4.03 | 0.05 | #68 |
| | | Back | 3.142 | 0.981 | 4.12 | 0.05 | #69 |
| | Band 30 | Bottom Side | 3.249 | | 3.25 | | |
| Front | | 1.557 | 1.330 | 2.89 | | | |
| Back | | 2.931 | 0.981 | 3.91 | | | |
| Band 7 | Bottom Side | 1.633 | | 1.63 | | | |
| | Front | 1.159 | 1.330 | 2.49 | | | |
| Band 41 | Back | 2.412 | 0.981 | 3.39 | | | |
| | Back | 3.384 | 0.981 | 4.37 | 0.06 | #71 | |

Remark:

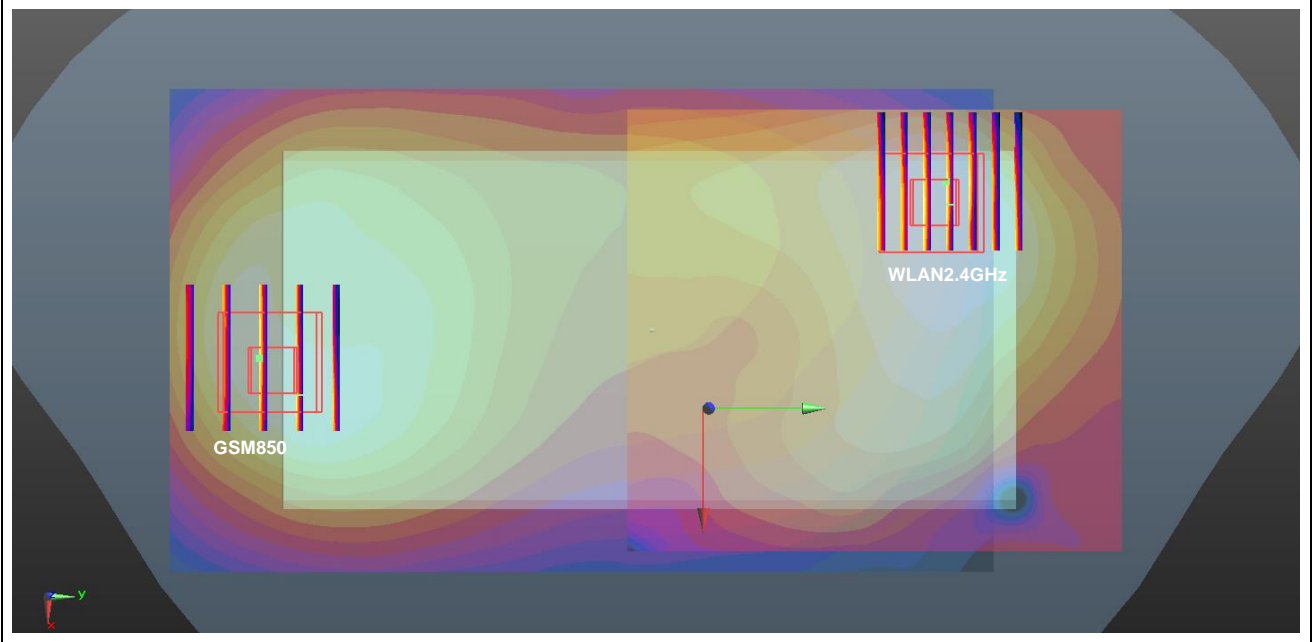
- For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
- If SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

16.5 SPLSR Evaluation and Analysis

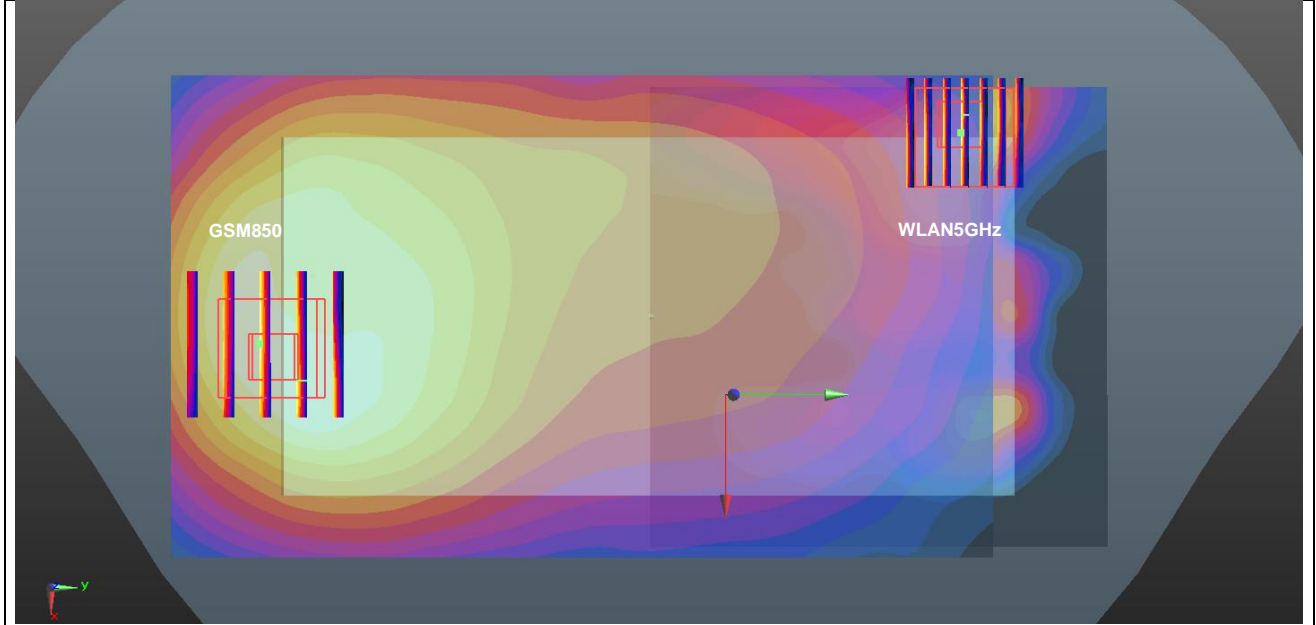
General Note:

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. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.

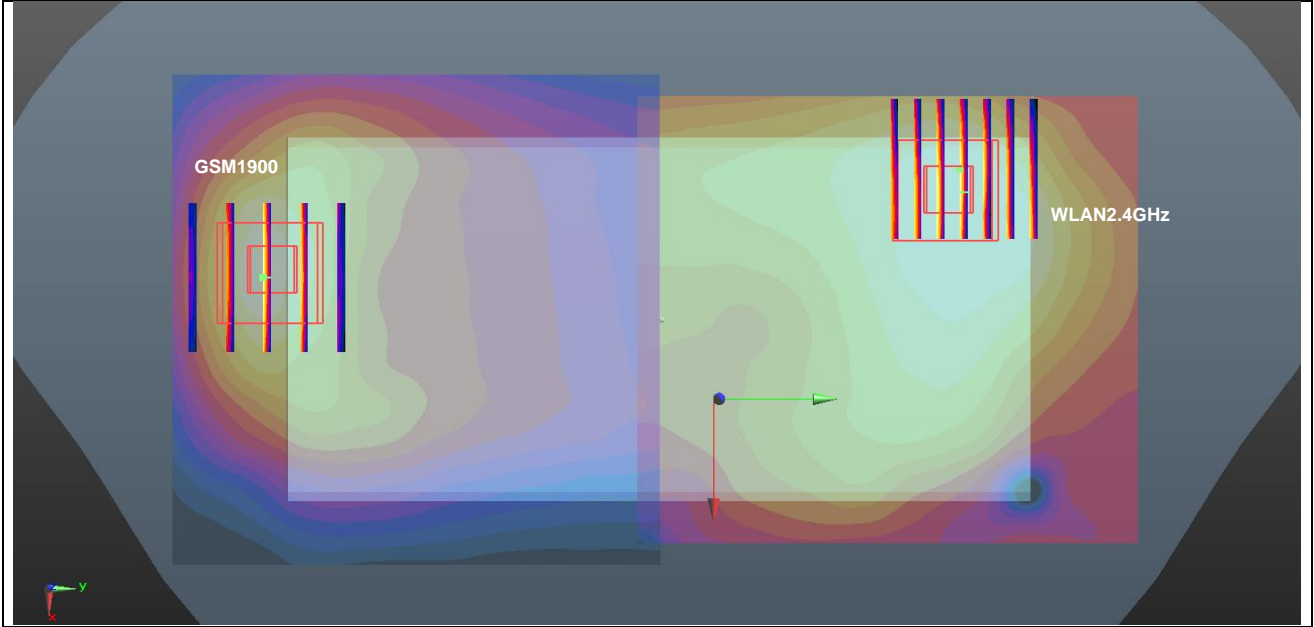
| Case #1 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM850 | Back | 1.434 | 5mm | 12.4 | -79.1 | -0.96 | 149.7 | 2.16 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



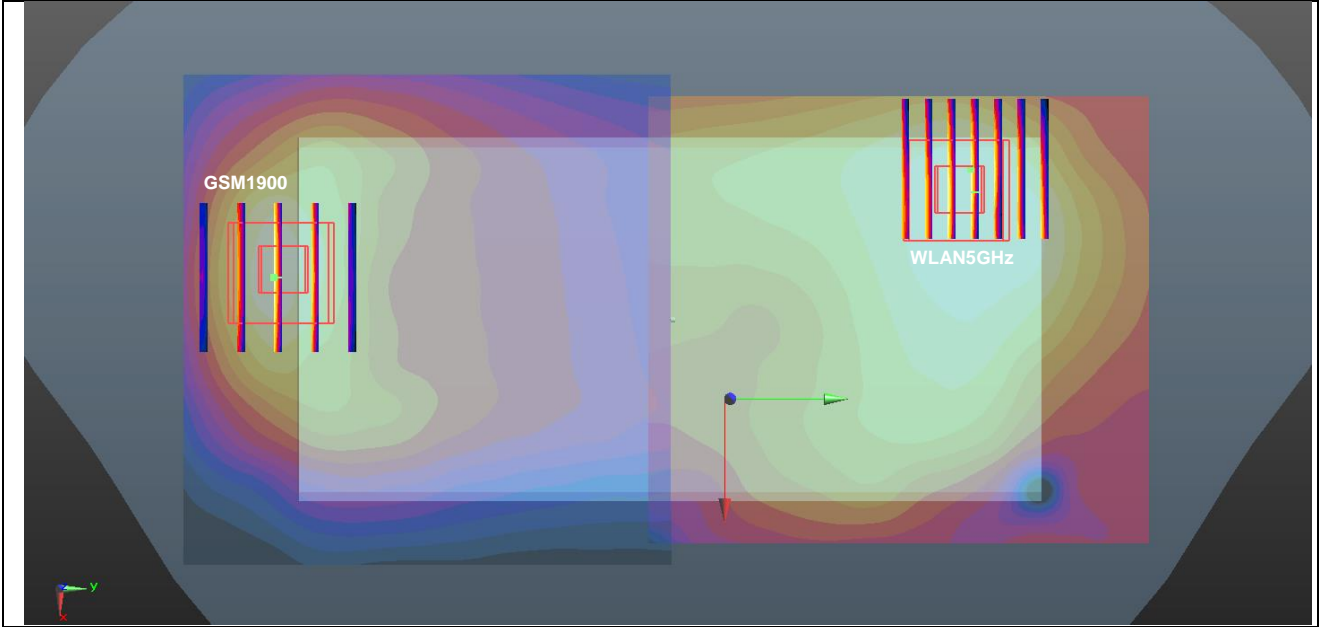
| Case #2 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|----------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM850 | Back | 1.434 | 5mm | 12.4 | -79.1 | -0.96 | 157.0 | 2.59 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



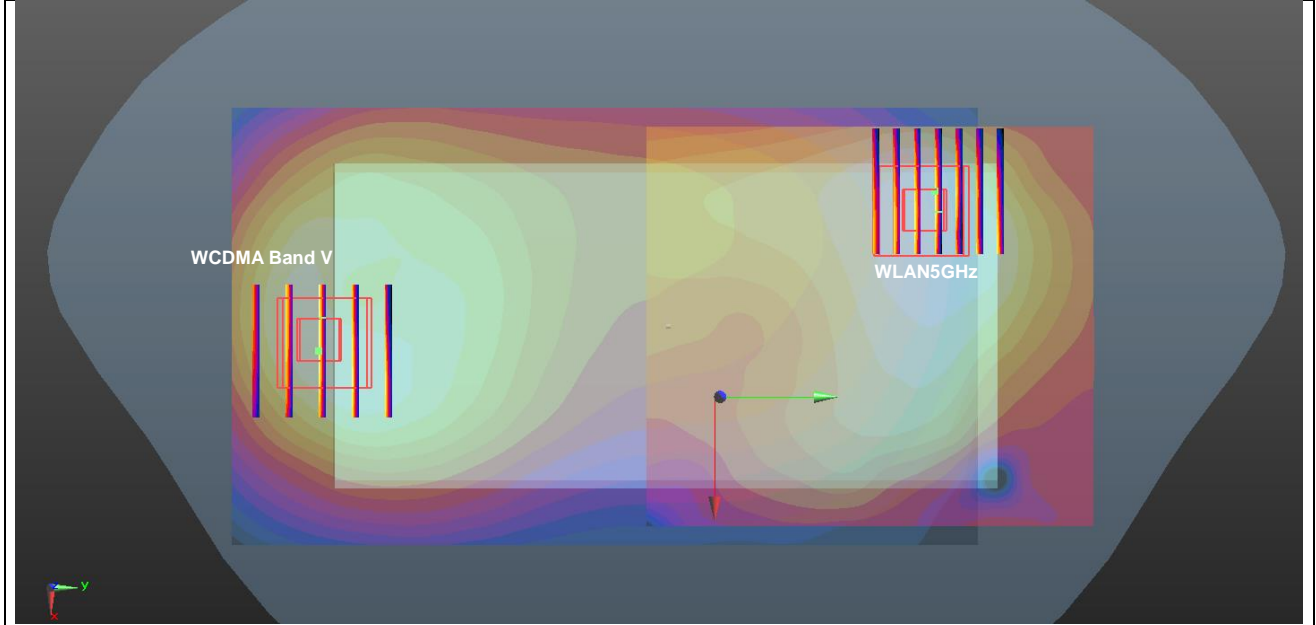
| Case #3 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM1900 | Back | 1.362 | 5mm | -12.2 | -82.3 | -0.77 | 147.9 | 2.09 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



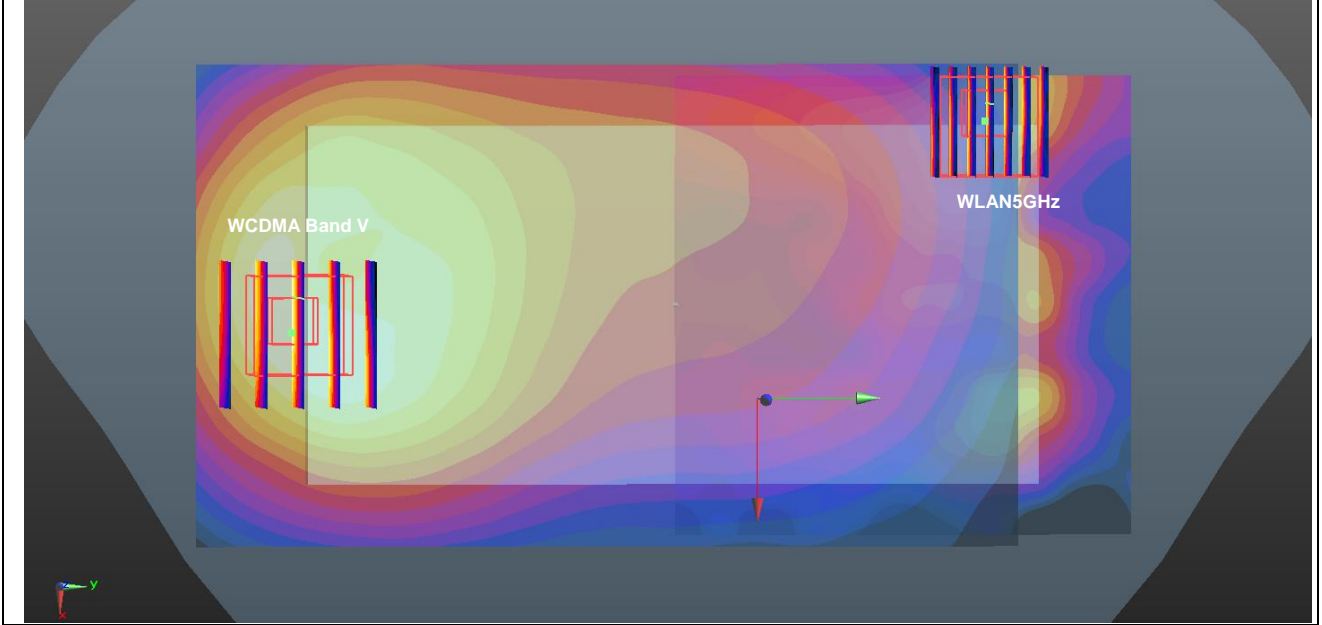
| Case #4 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|----------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM1900 | Back | 1.362 | 5mm | -12.2 | -82.3 | -0.77 | 153.3 | 2.52 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



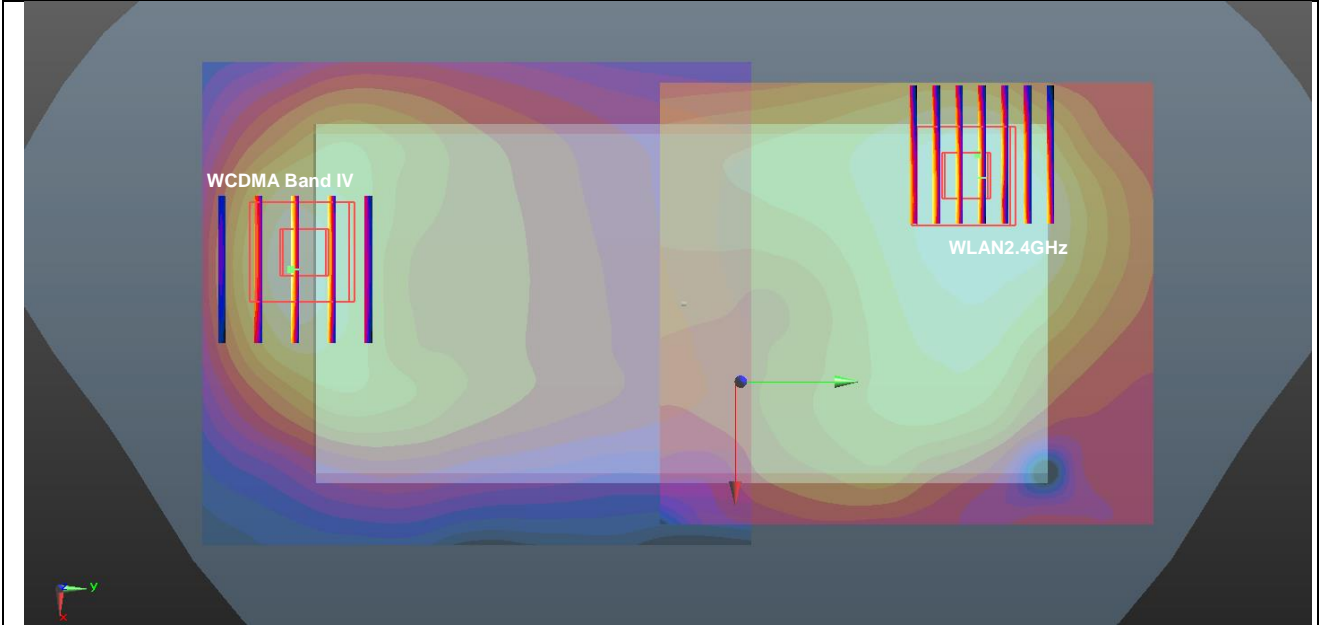
| Case #5 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band V | Back | 1.399 | 5mm | 6 | -82.4 | -1 | 151.2 | 2.13 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



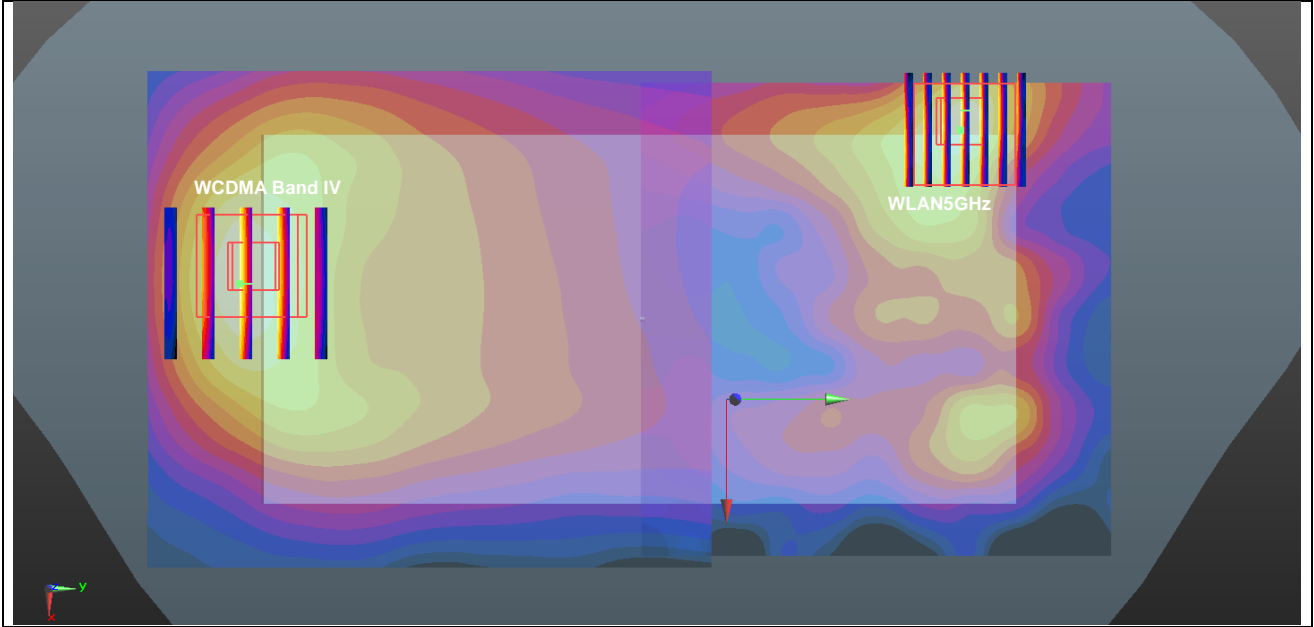
| Case #6 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band V | Front | 1.399 | 5mm | 6 | -82.4 | -1 | 158.0 | 2.56 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



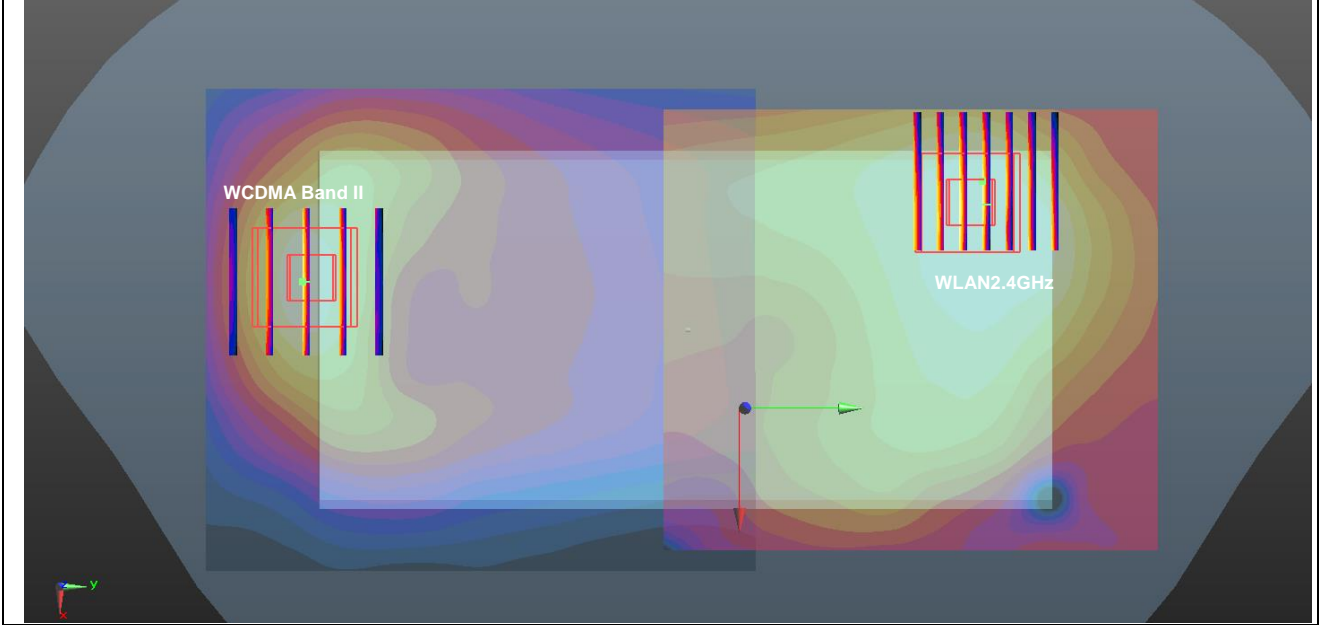
| Case #7 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band IV | Back | 1.383 | 5mm | -9.1 | -80.7 | -0.71 | 146.7 | 2.11 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



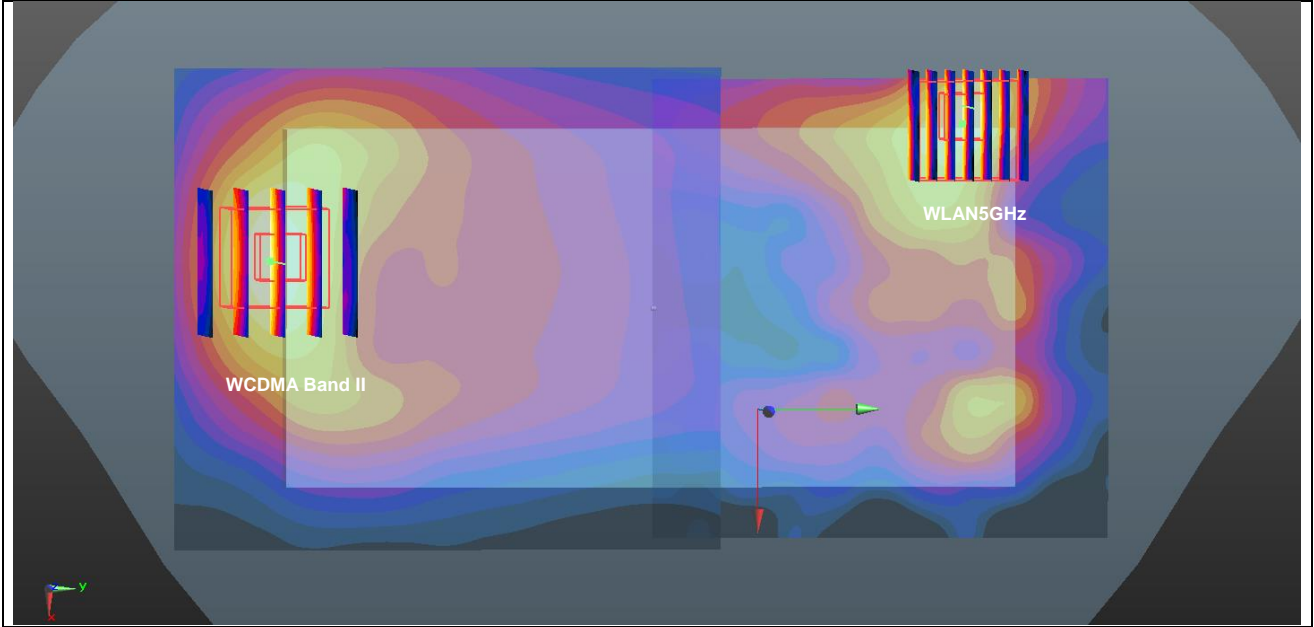
| Case #8 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band IV | Back | 1.383 | 5mm | -9.1 | -80.7 | -0.71 | 152.4 | 2.54 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



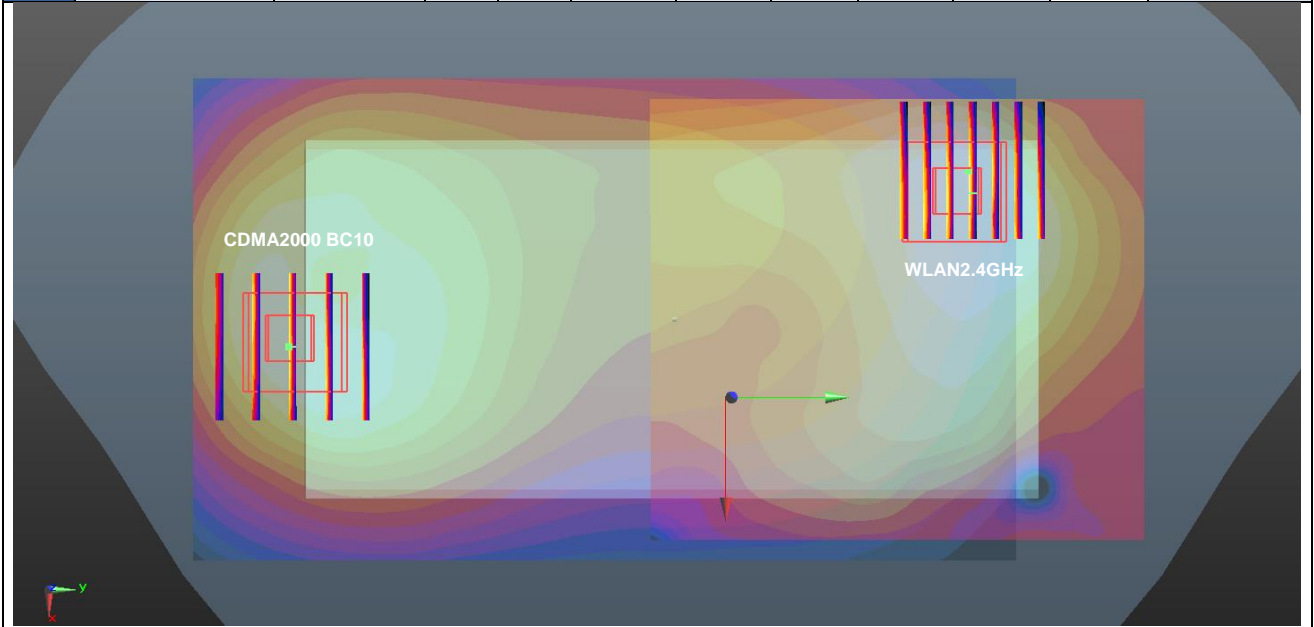
| Case #9 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band II | Back | 1.225 | 5mm | -12.1 | -80.8 | -0.72 | 146.4 | 1.95 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



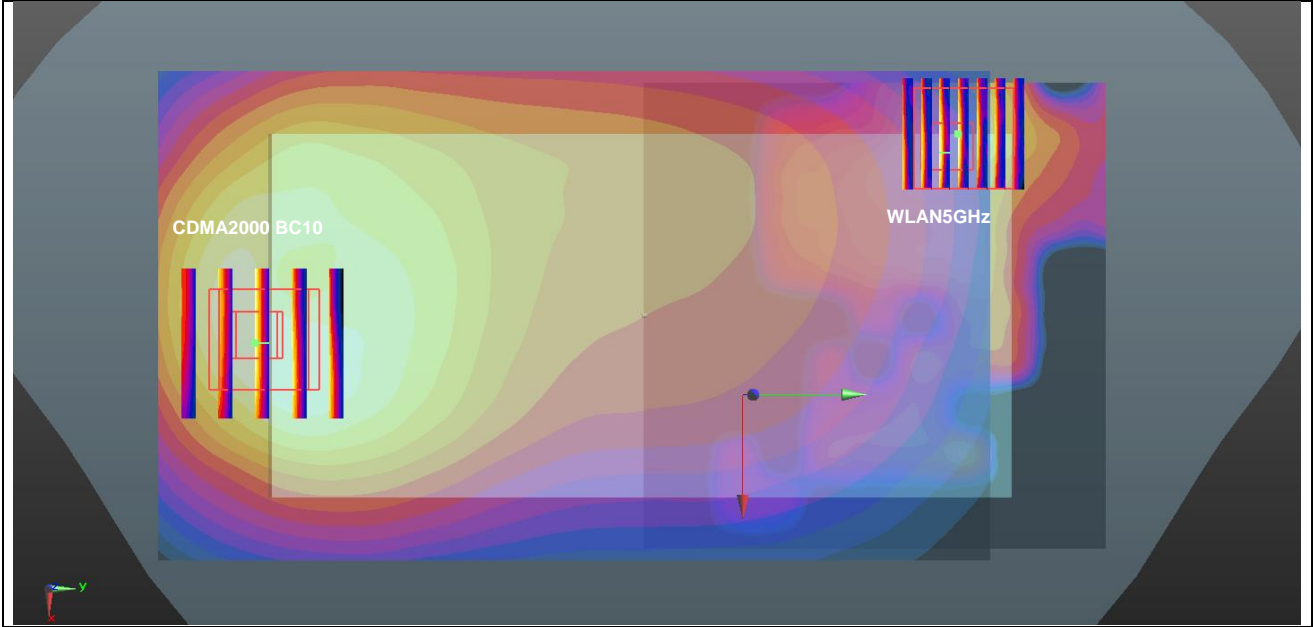
| Case #10 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band II | Back | 1.225 | 5mm | -12.1 | -80.8 | -0.72 | 151.9 | 2.39 | 0.02 | Not required |
| | WLAN5GHz | | 1.16 | 5mm | -42.4 | 68 | -0.88 | | | | |



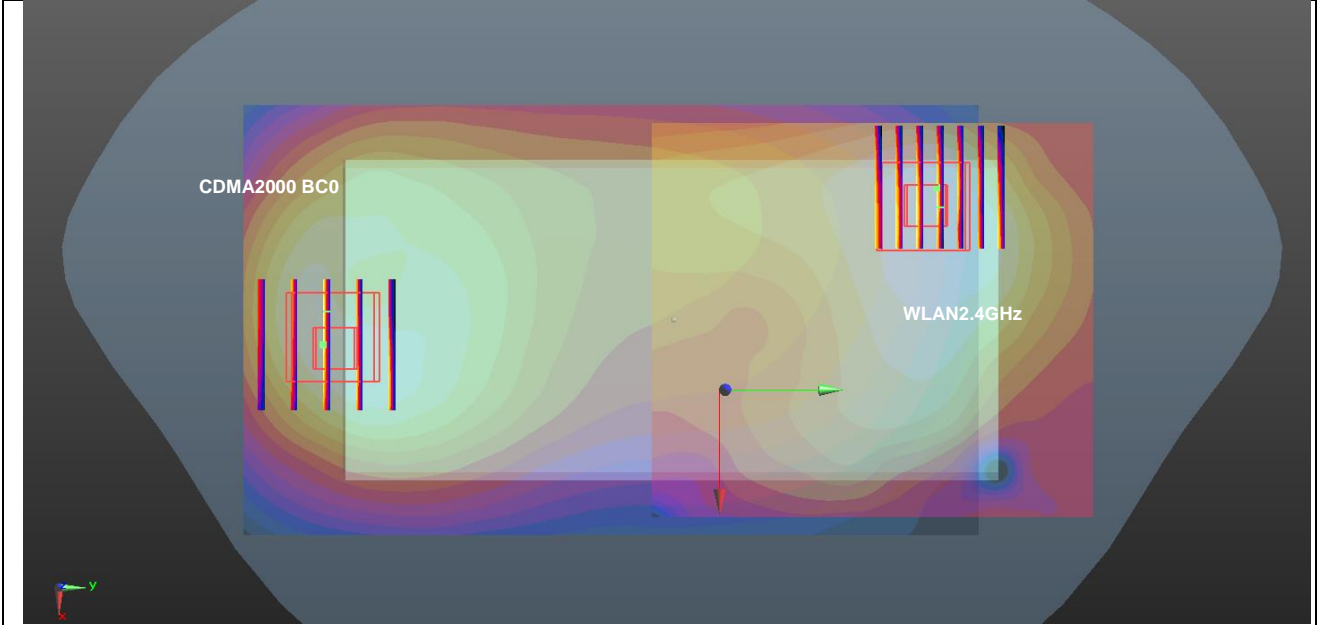
| Case #11 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Back | 1.205 | 5mm | 6 | -82.4 | -0.98 | 151.2 | 1.93 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



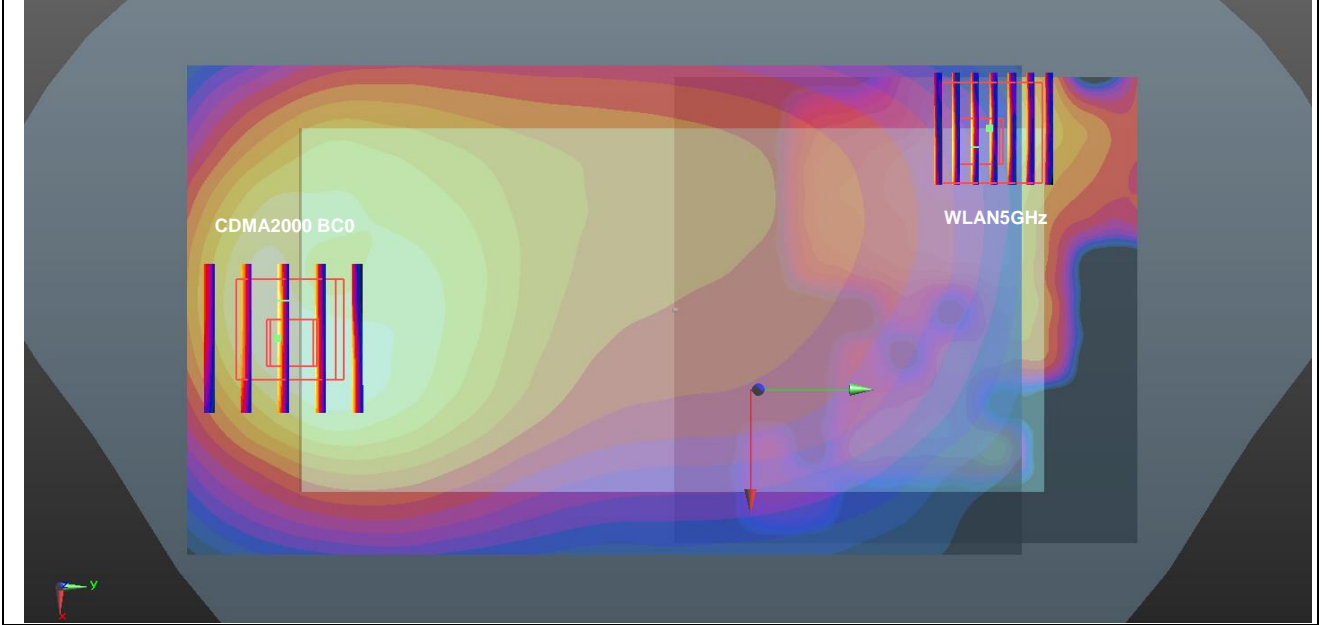
| Case #12 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Back | 1.205 | 5mm | 6 | -82.4 | -0.98 | 154.6 | 2.37 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



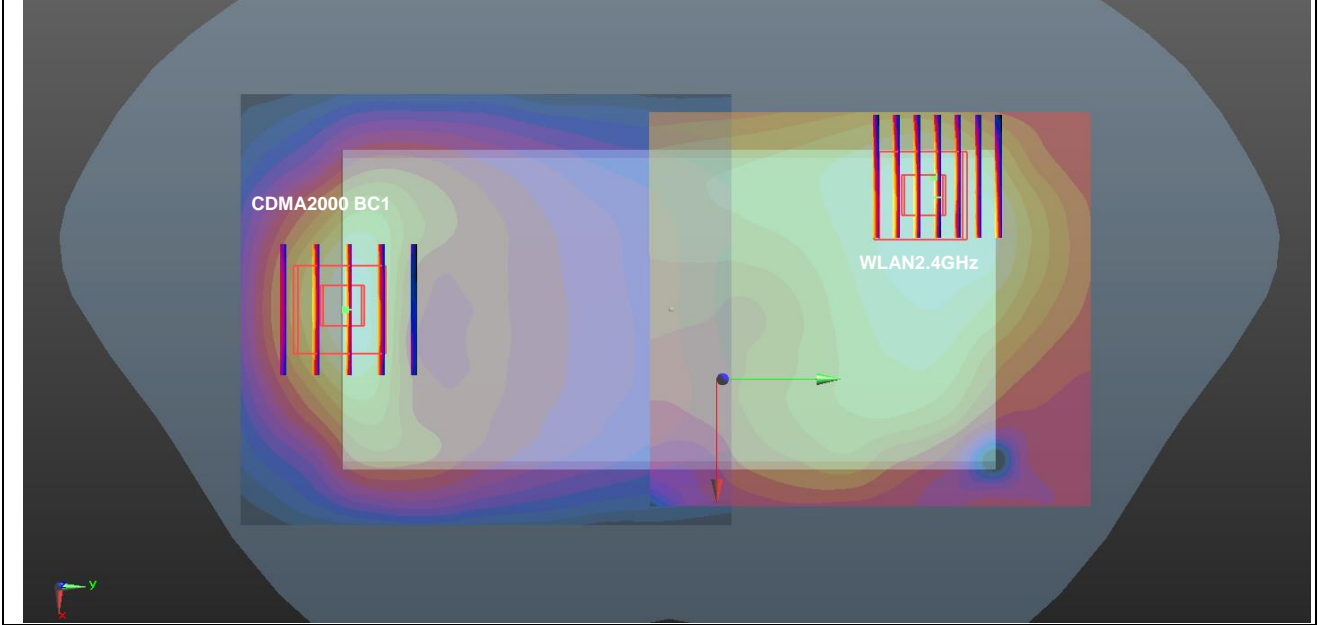
| Case #13 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Back | 1.217 | 5mm | 10.8 | -79.1 | -0.96 | 149.2 | 1.94 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



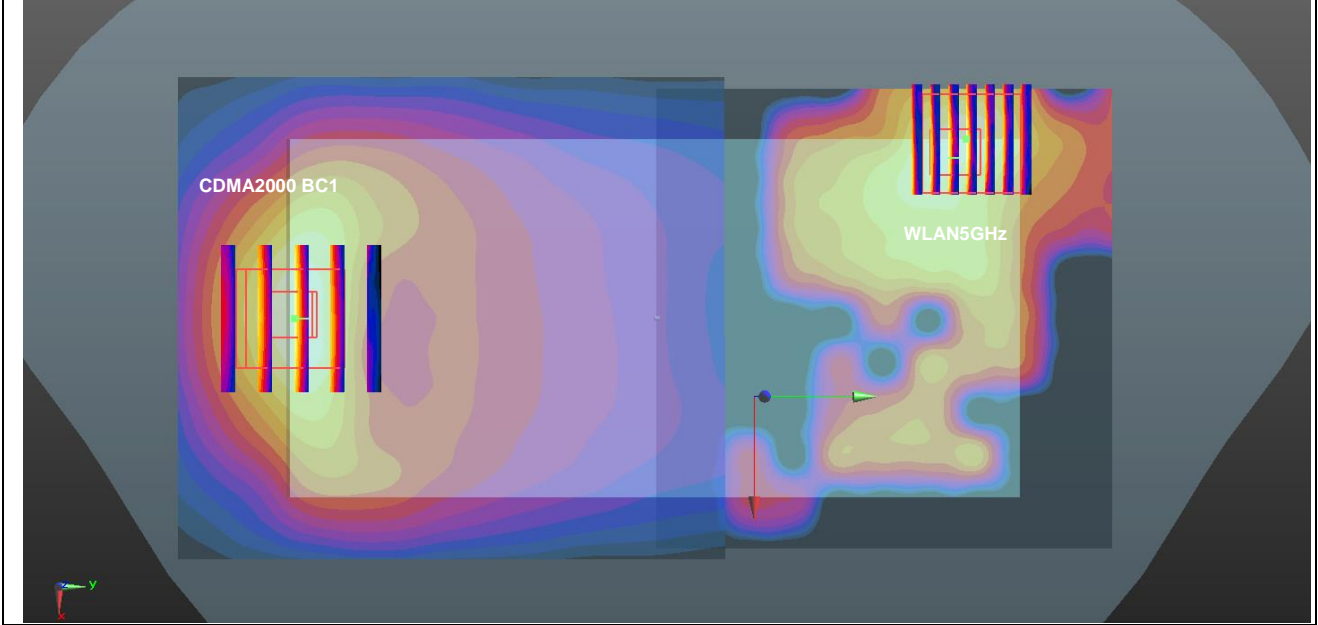
| Case #14 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Back | 1.217 | 5mm | 10.8 | -79.1 | -0.96 | 152.8 | 2.38 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



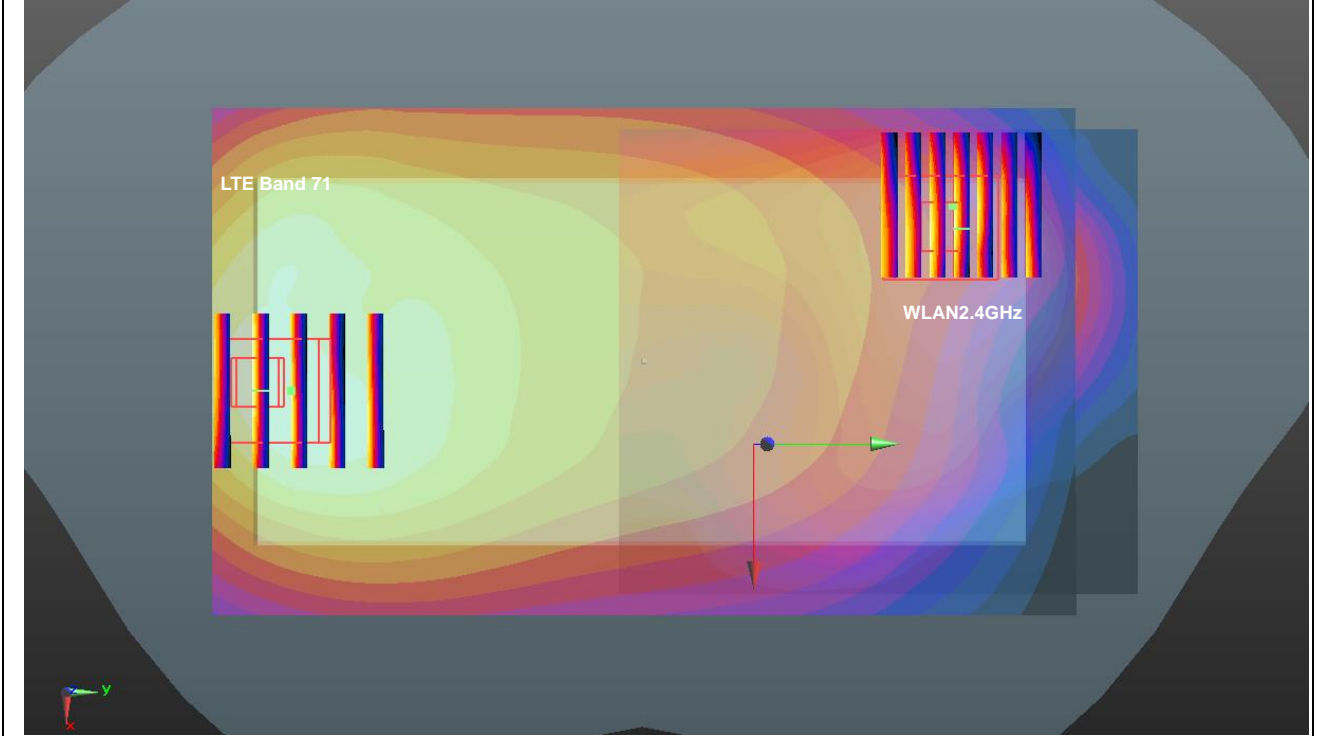
| Case #15 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Back | 1.373 | 5mm | 0 | -79.5 | -1.43 | 147.1 | 2.10 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



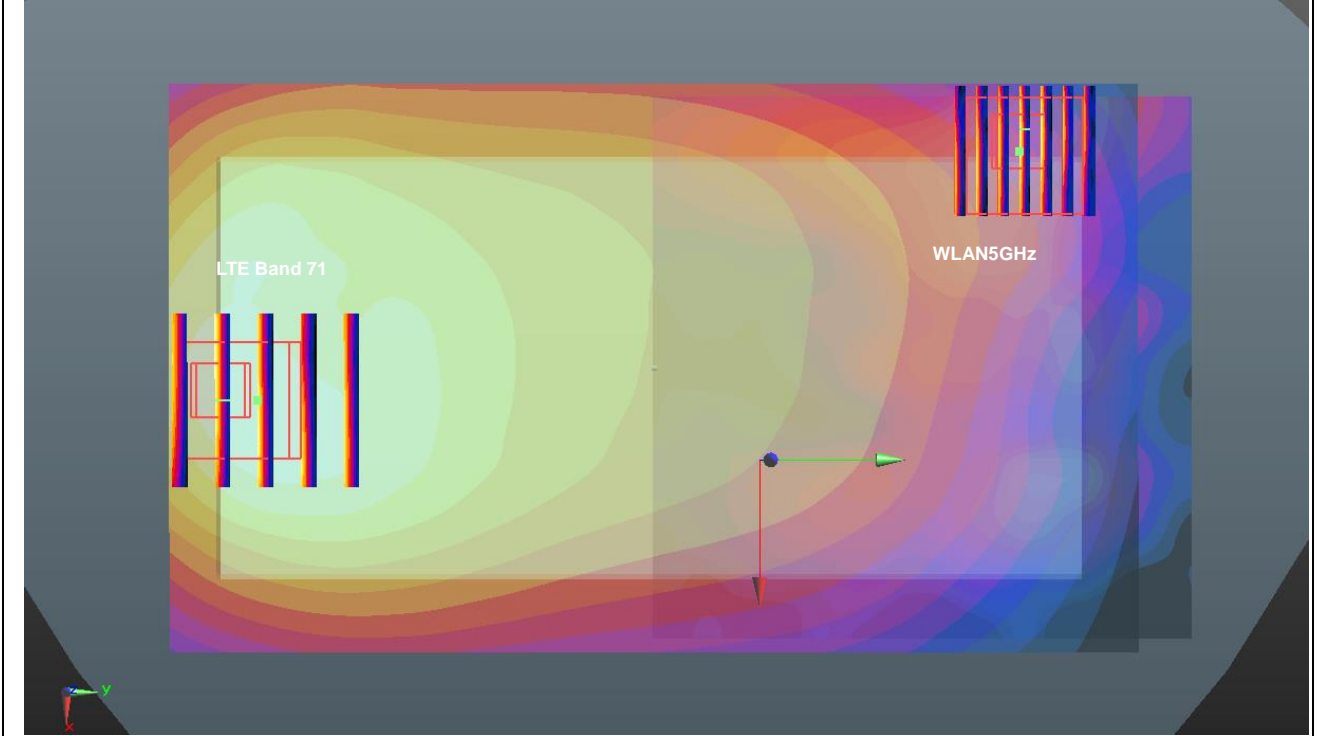
| Case #16 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Back | 1.373 | 5mm | 0 | -79.5 | -1.43 | 150.2 | 2.53 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



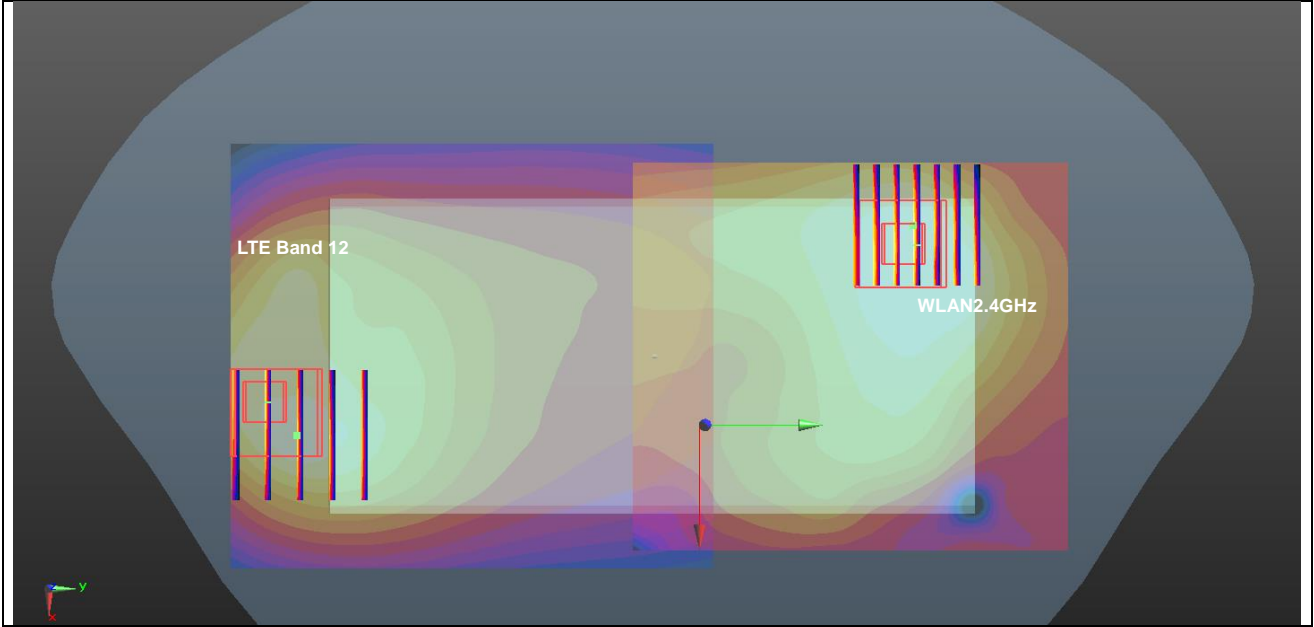
| Case #17 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 71 | Back | 0.898 | 5mm | 4.4 | -79.9 | -0.84 | 148.4 | 1.62 | 0.01 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



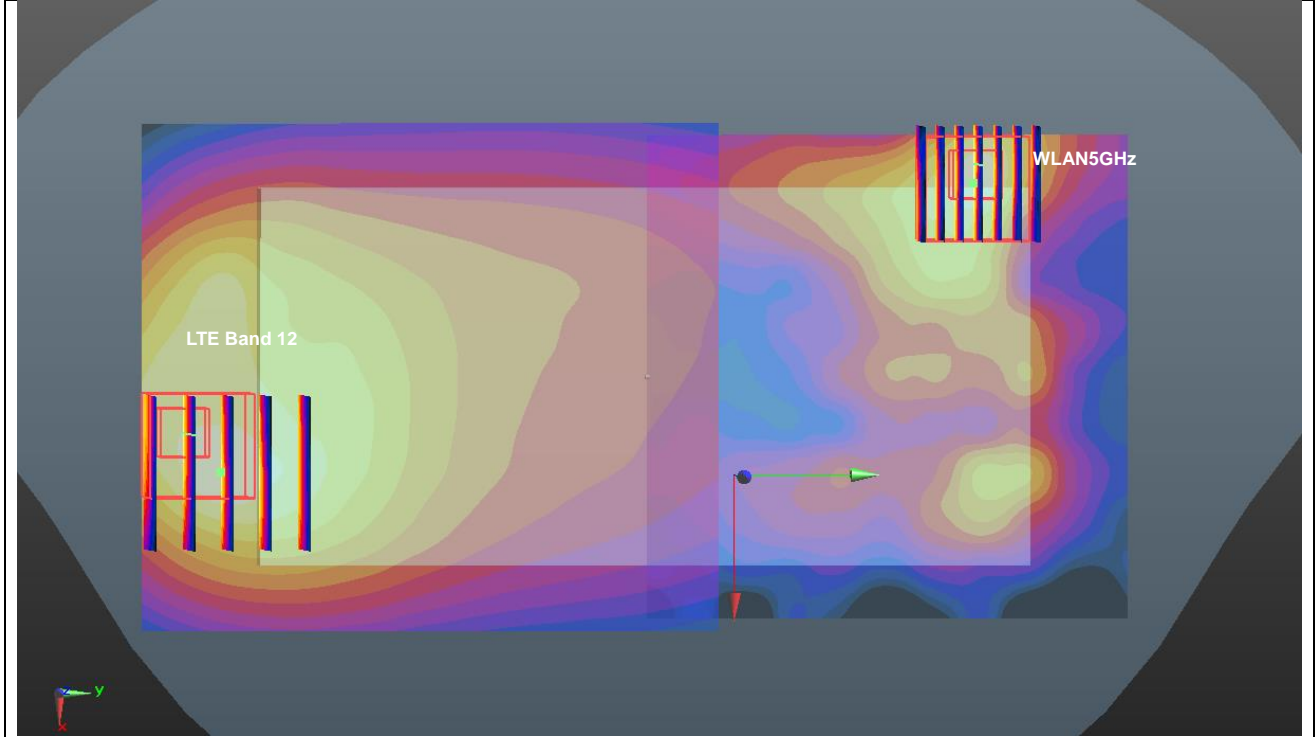
| Case #18 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 71 | Back | 0.898 | 5mm | 4.4 | -79.9 | -0.84 | 155.1 | 2.06 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



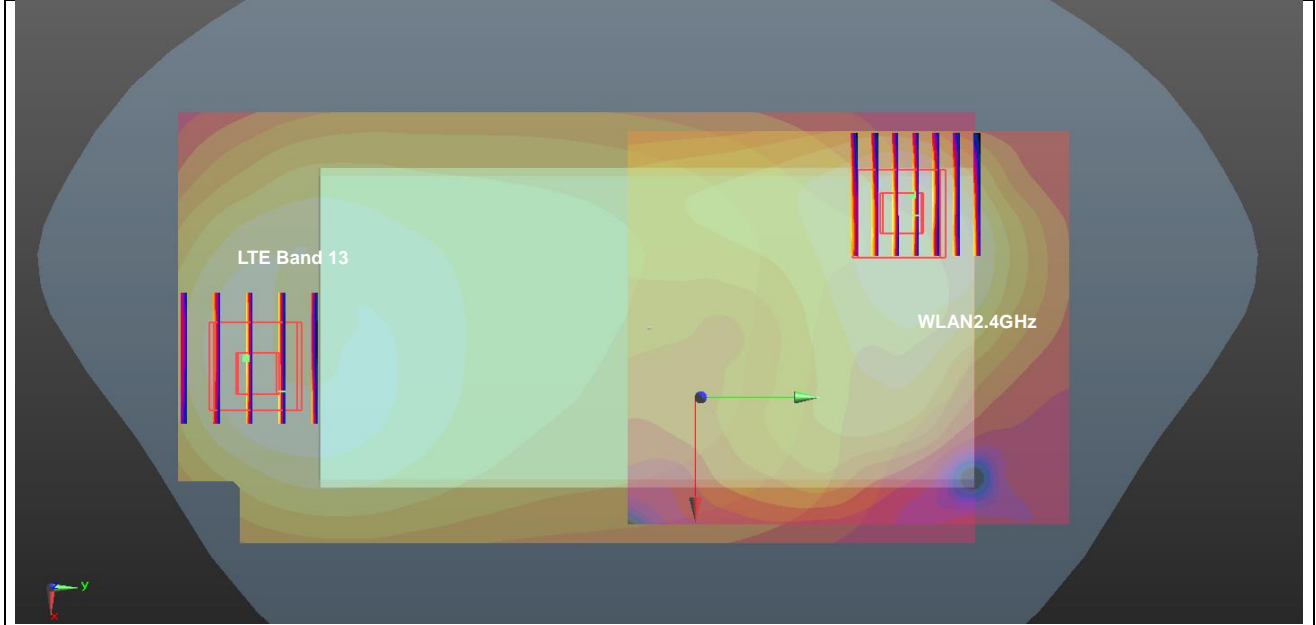
| Case #19 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 12 | Back | 1.116 | 5mm | 11.5 | -94.9 | -1.41 | 164.7 | 1.84 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



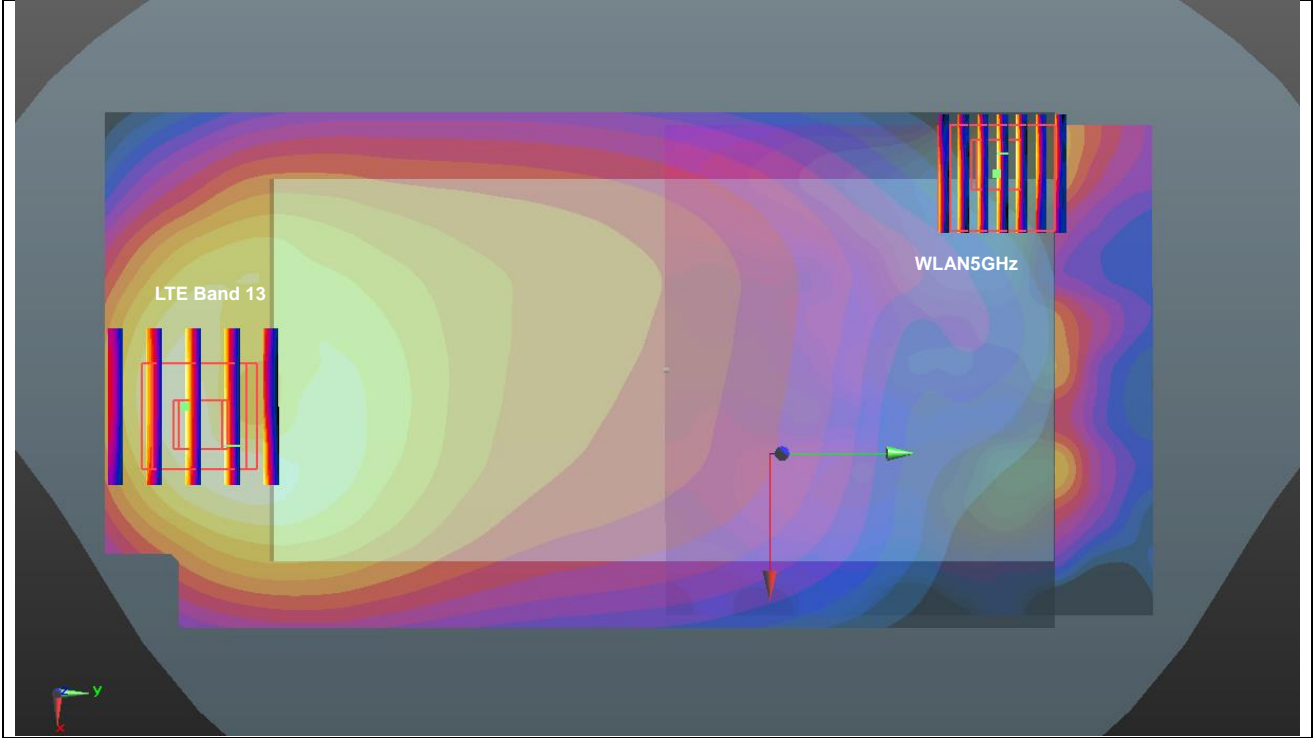
| Case #20 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 12 | Back | 1.116 | 5mm | 11.5 | -94.9 | -1.41 | 171.6 | 2.28 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



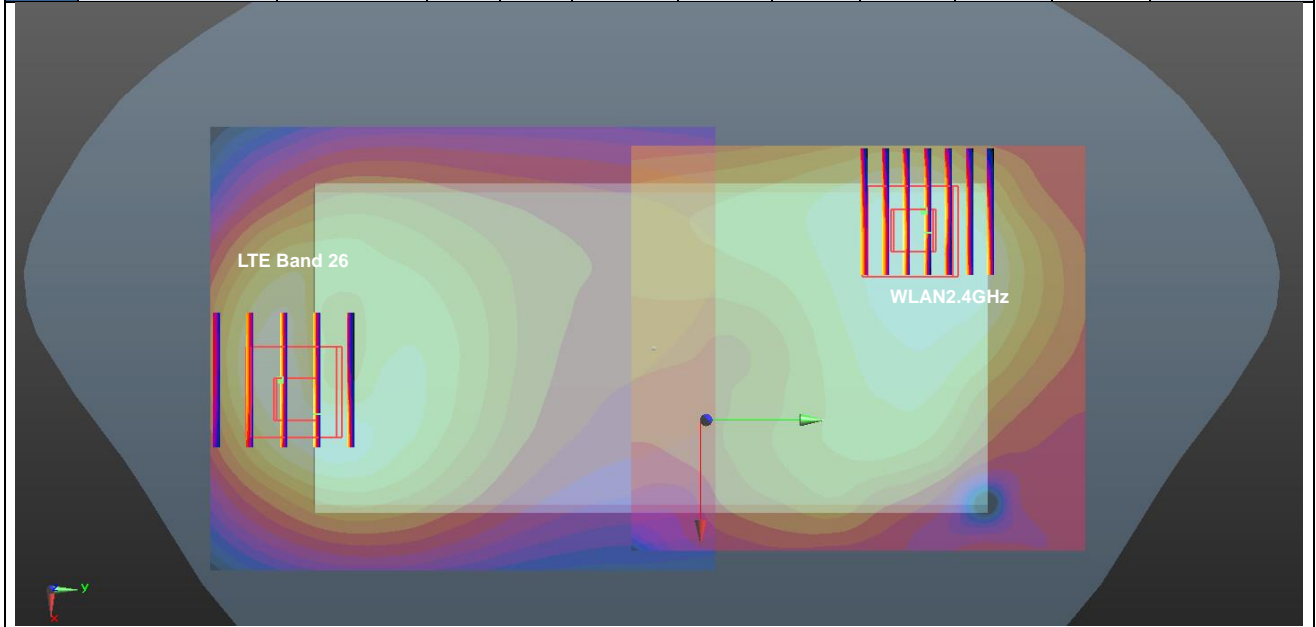
| Case #21 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 13 | Back | 1.242 | 5mm | 13.9 | -93.7 | -1.44 | 164.1 | 1.97 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



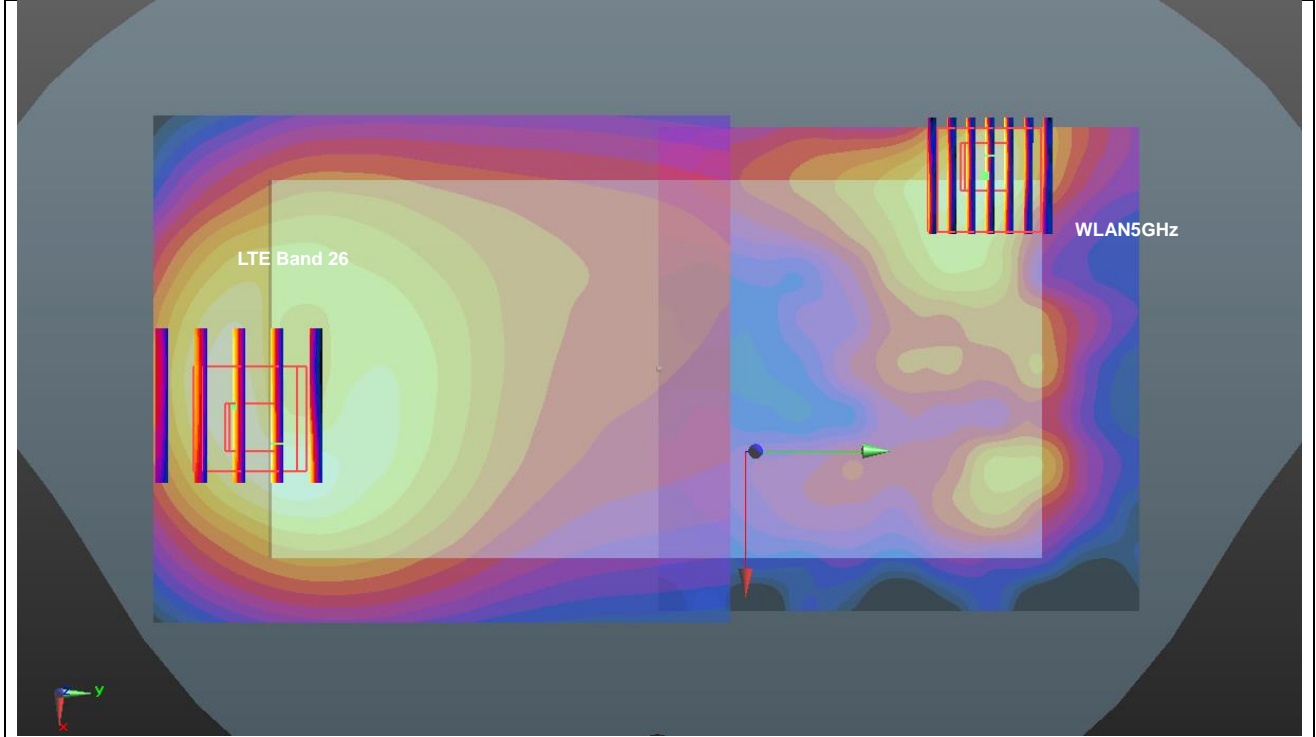
| Case #22 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 13 | Back | 1.242 | 5mm | 13.9 | -93.7 | -1.44 | 171.2 | 2.40 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



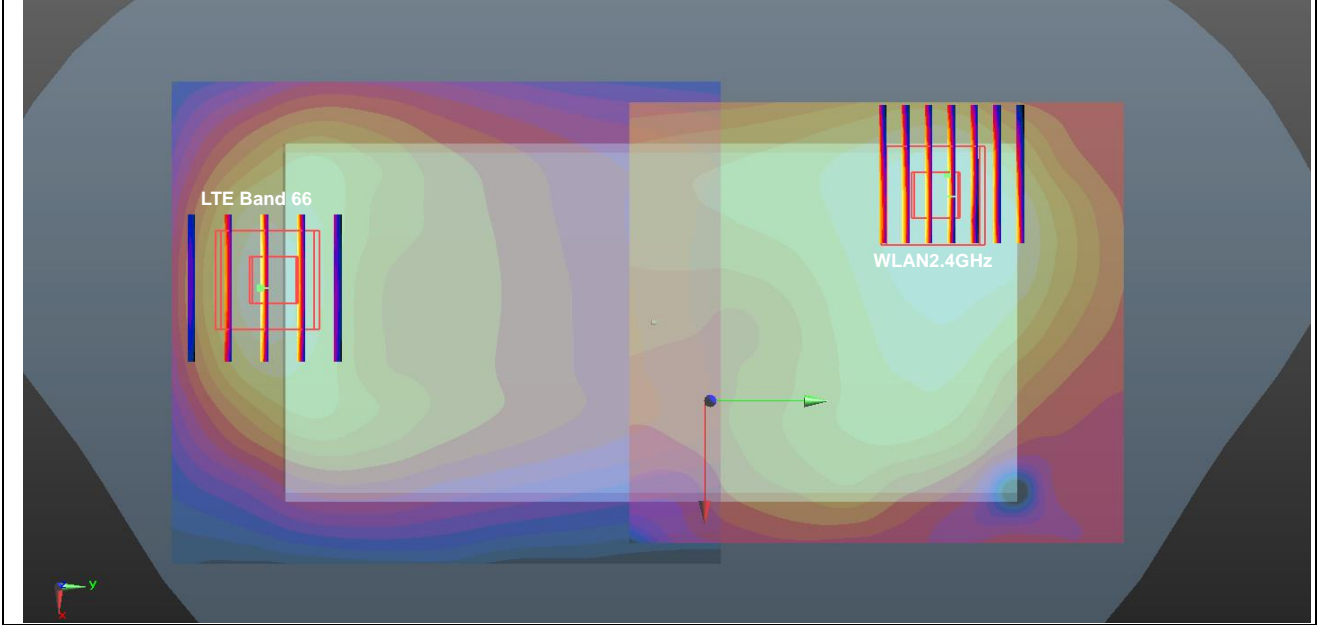
| Case #23 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 26 | Back | 1.383 | 5mm | 13.9 | -82.1 | -3.72 | 153.0 | 2.11 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



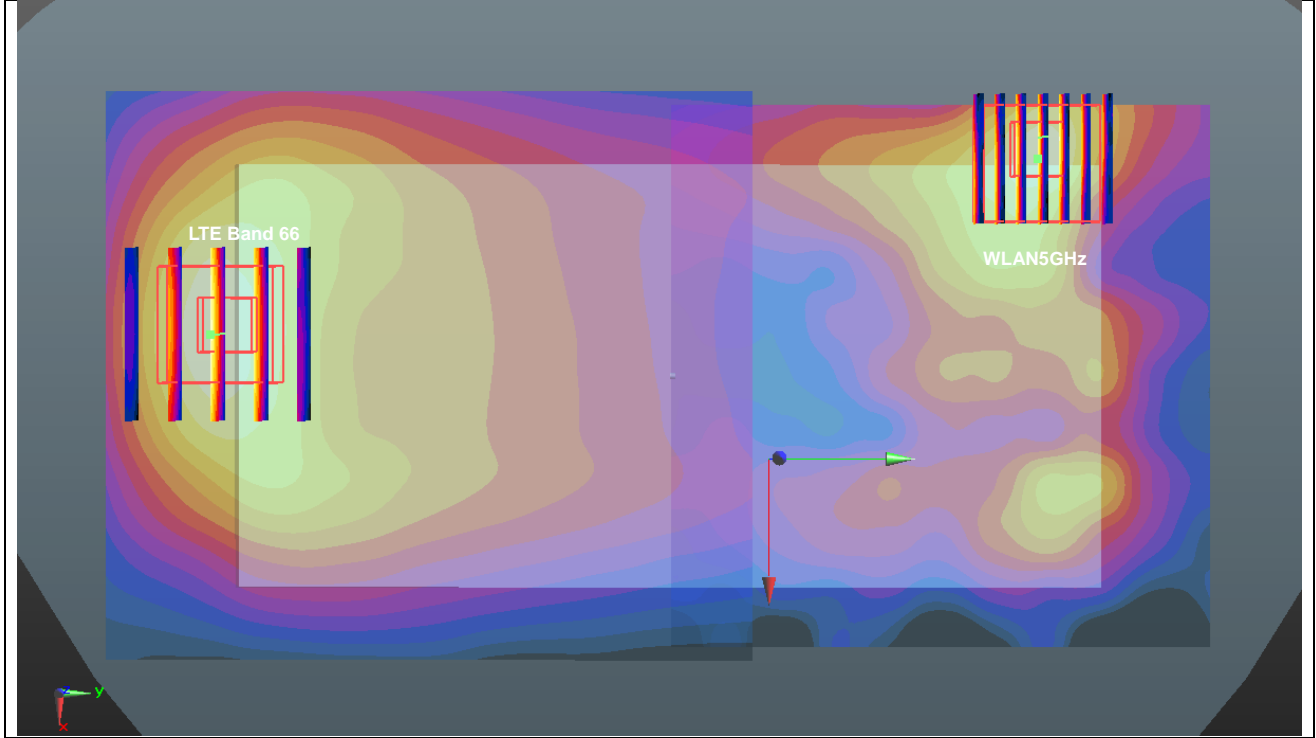
| Case #24 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 26 | Back | 1.383 | 5mm | 13.9 | -93.7 | -1.44 | 171.2 | 2.54 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



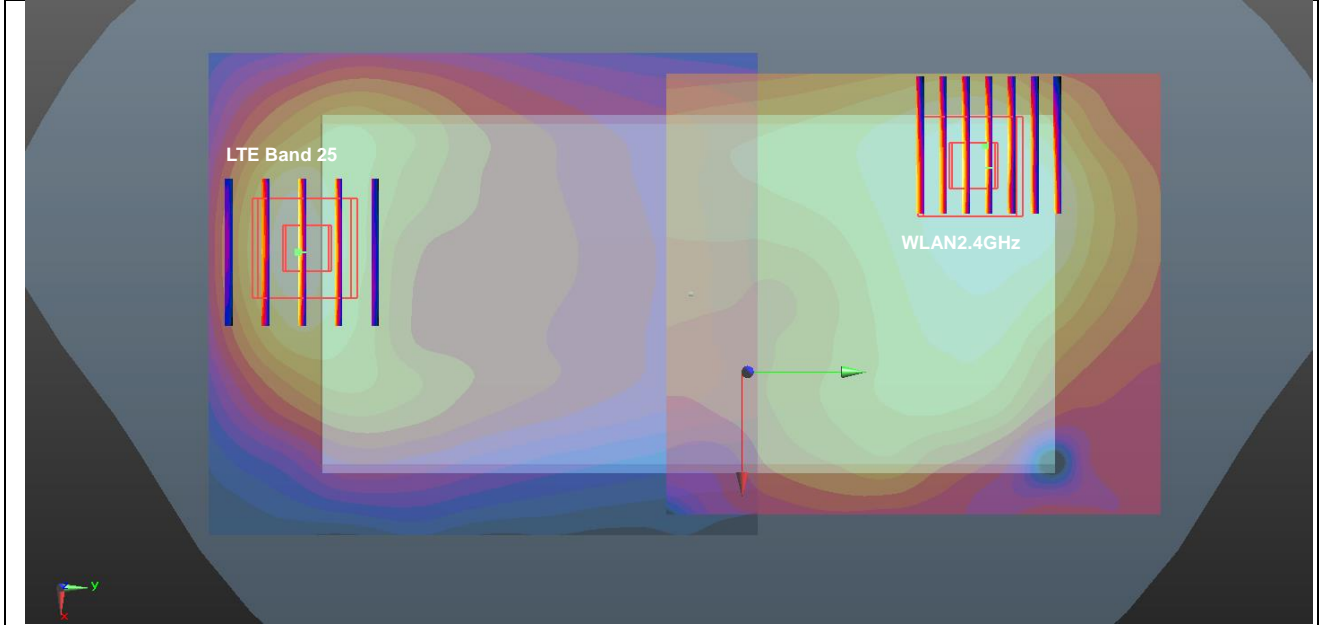
| Case #25 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 66 | Back | 1.329 | 5mm | -10.7 | -82.3 | -0.68 | 148.1 | 2.06 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



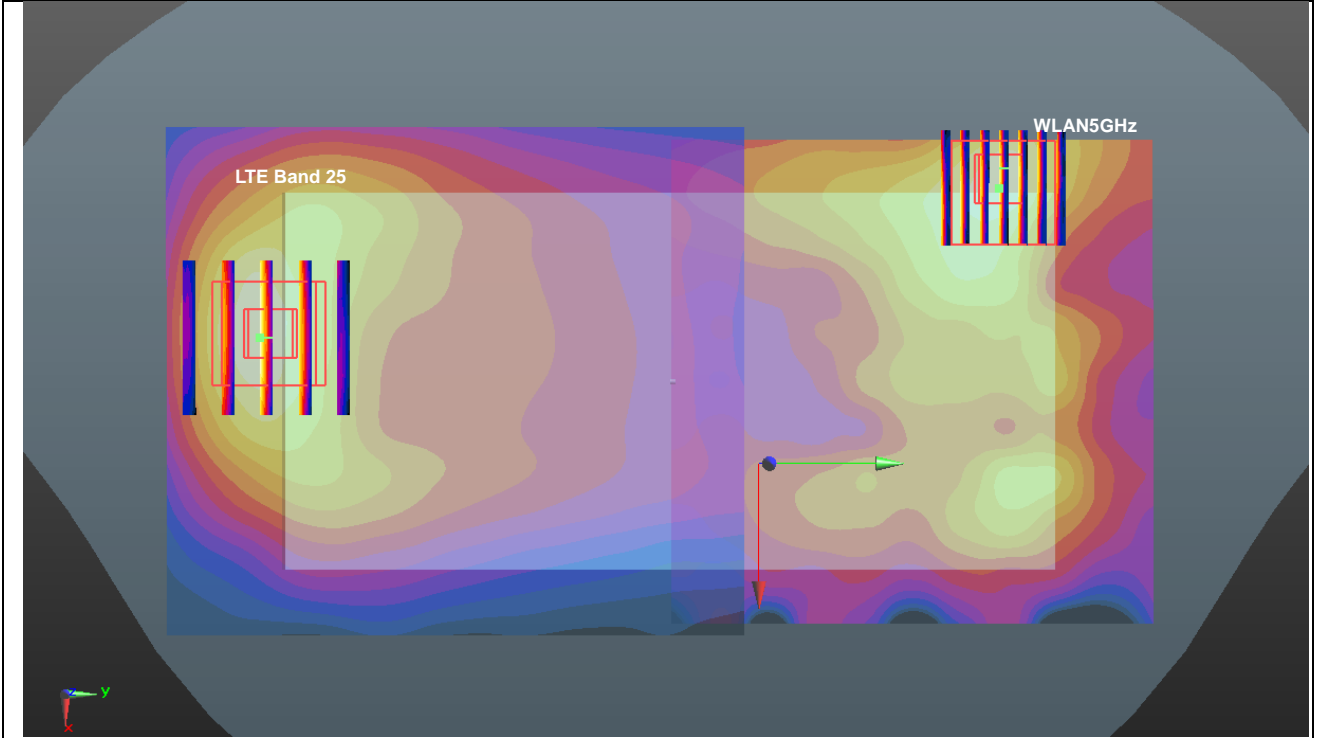
| Case #26 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 66 | Back | 1.329 | 5mm | -10.7 | -82.3 | -0.68 | 153.6 | 2.49 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



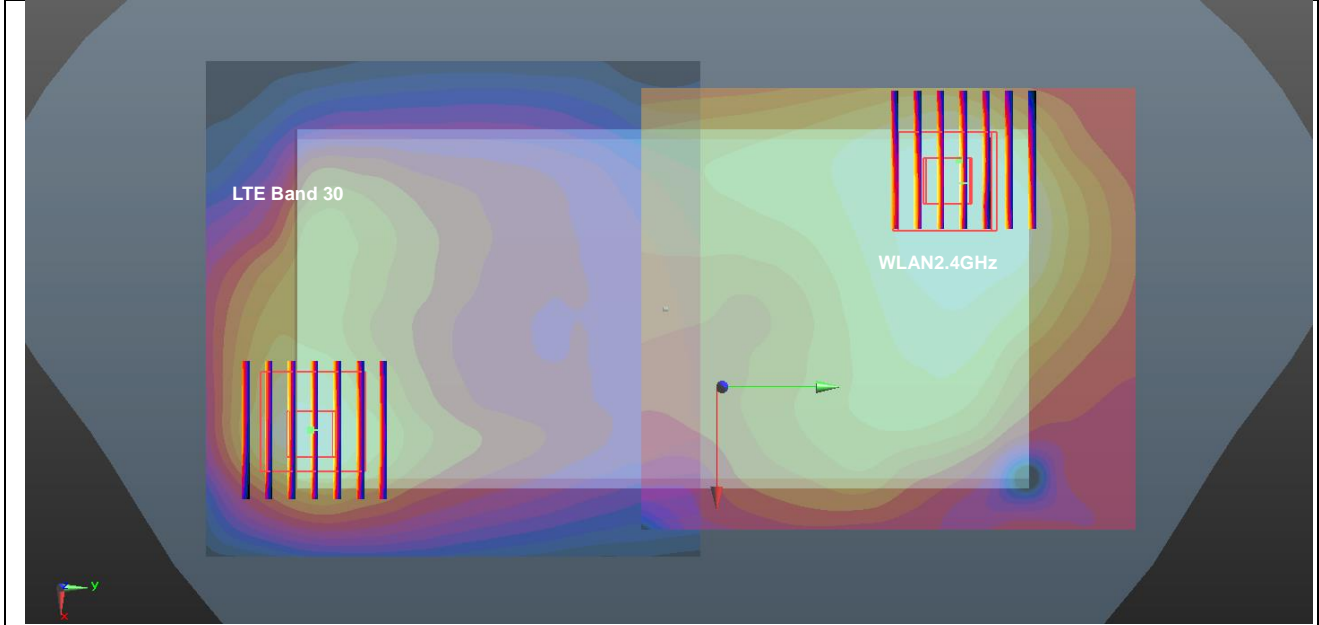
| Case #27 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 25 | Back | 1.329 | 5mm | -10.6 | -82.3 | -0.83 | 148.1 | 2.06 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



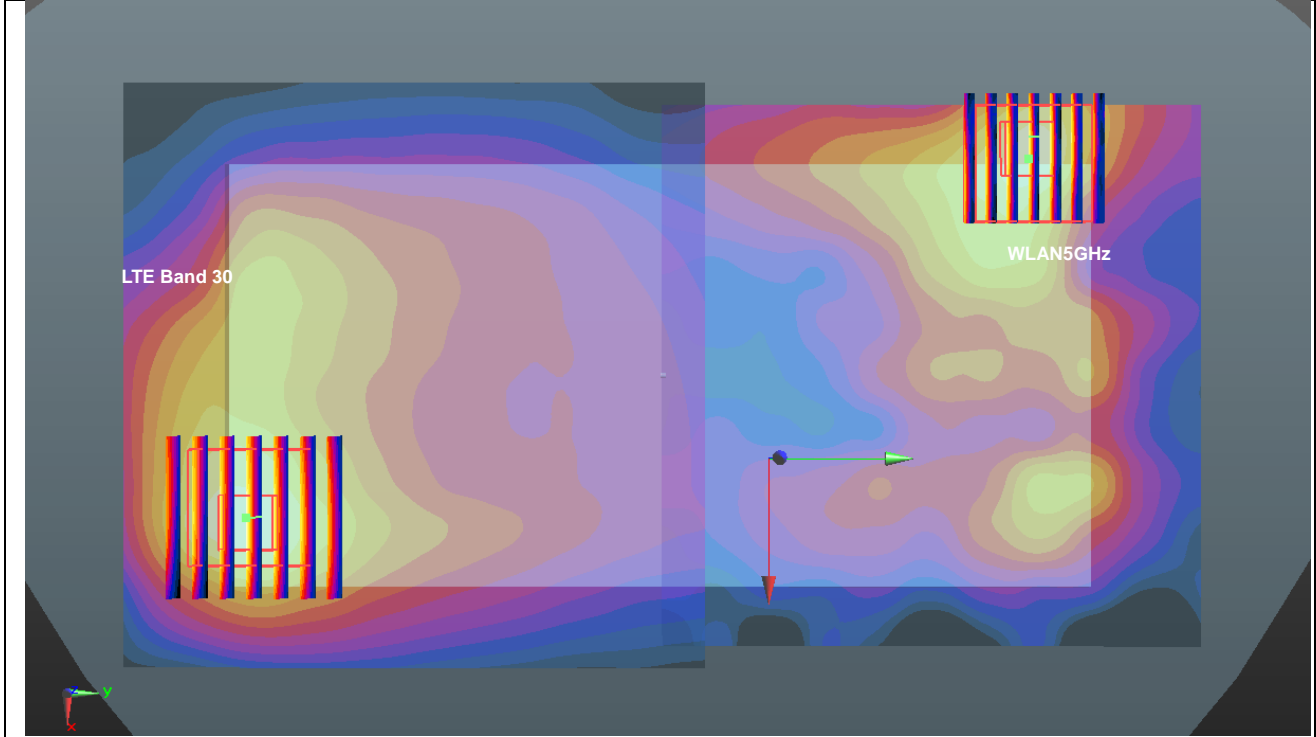
| Case #28 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 25 | Back | 1.329 | 5mm | -10.6 | -82.3 | -0.83 | 153.6 | 2.49 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



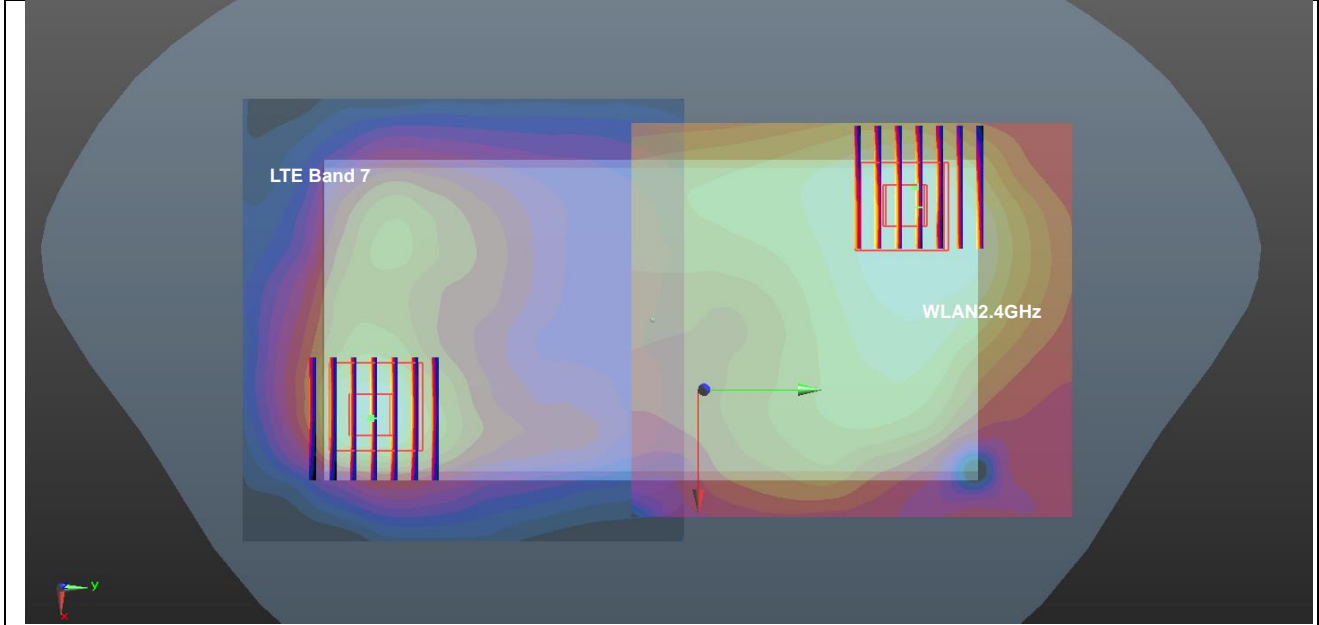
| Case #29 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 30 | Back | 1.098 | 5mm | 28.4 | -77.2 | -1.2 | 153.1 | 1.82 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



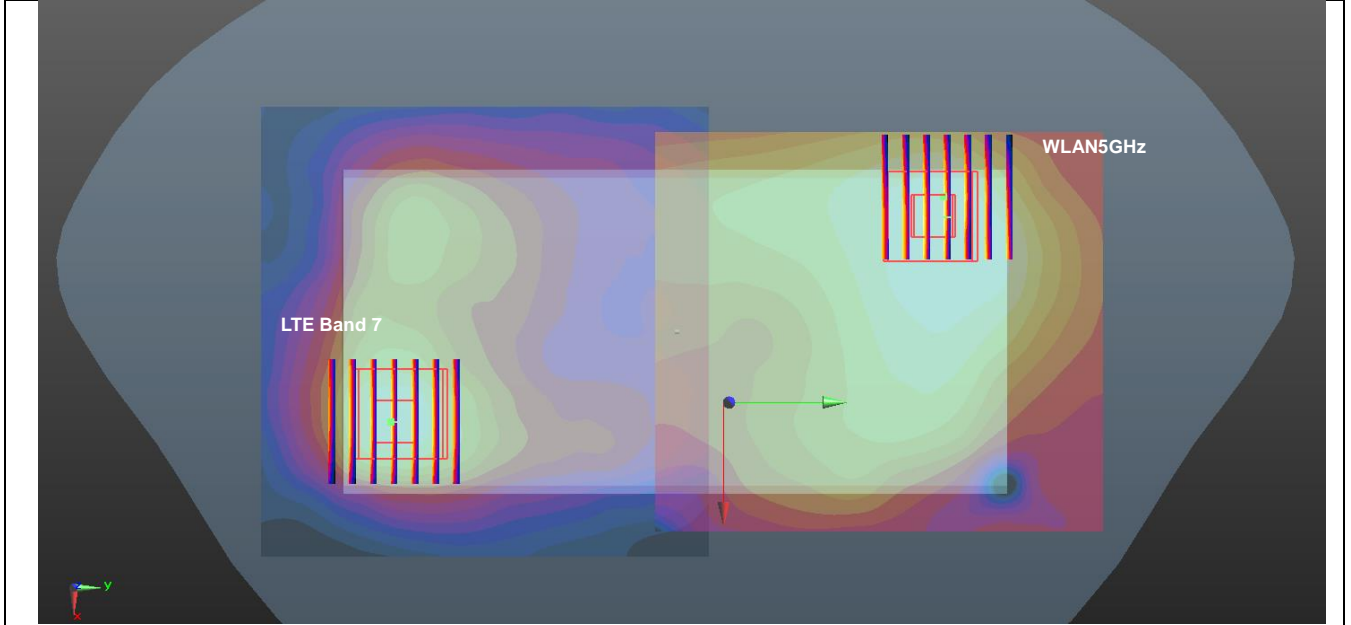
| Case #30 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 30 | Back | 1.098 | 5mm | 28.4 | -77.2 | -1.2 | 161.5 | 2.26 | 0.02 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



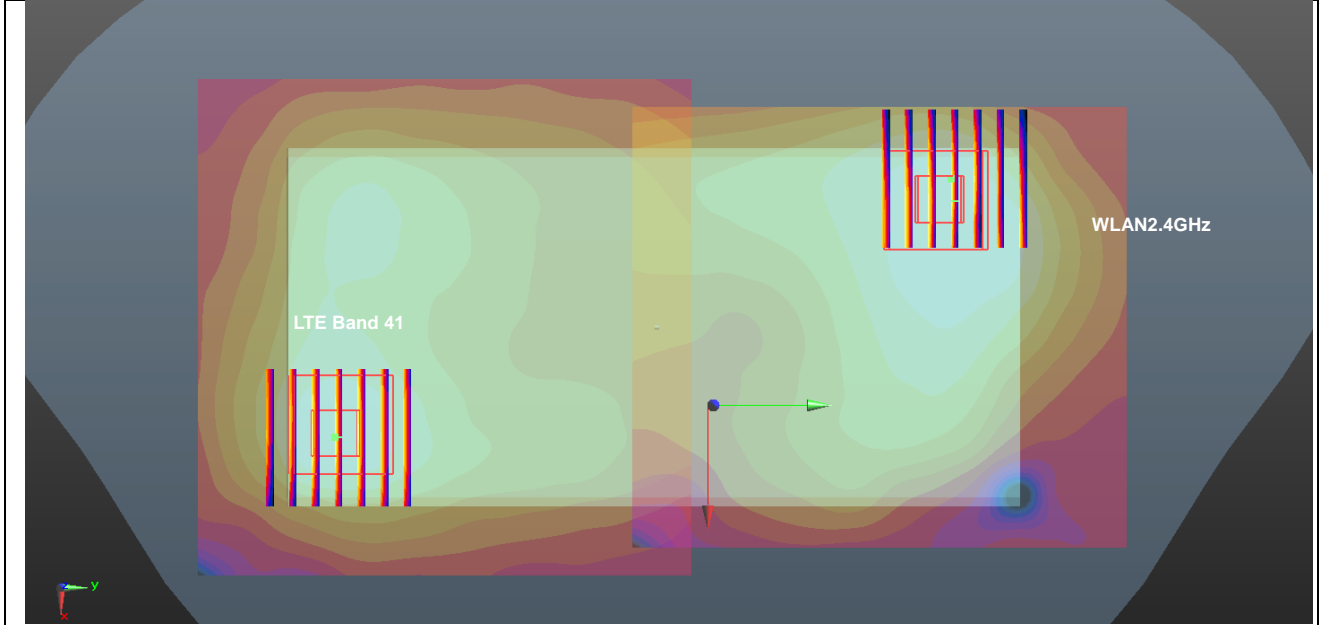
| Case #31 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 7 | Back | 1.291 | 5mm | -23 | -69.8 | -0.66 | 134.6 | 2.02 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



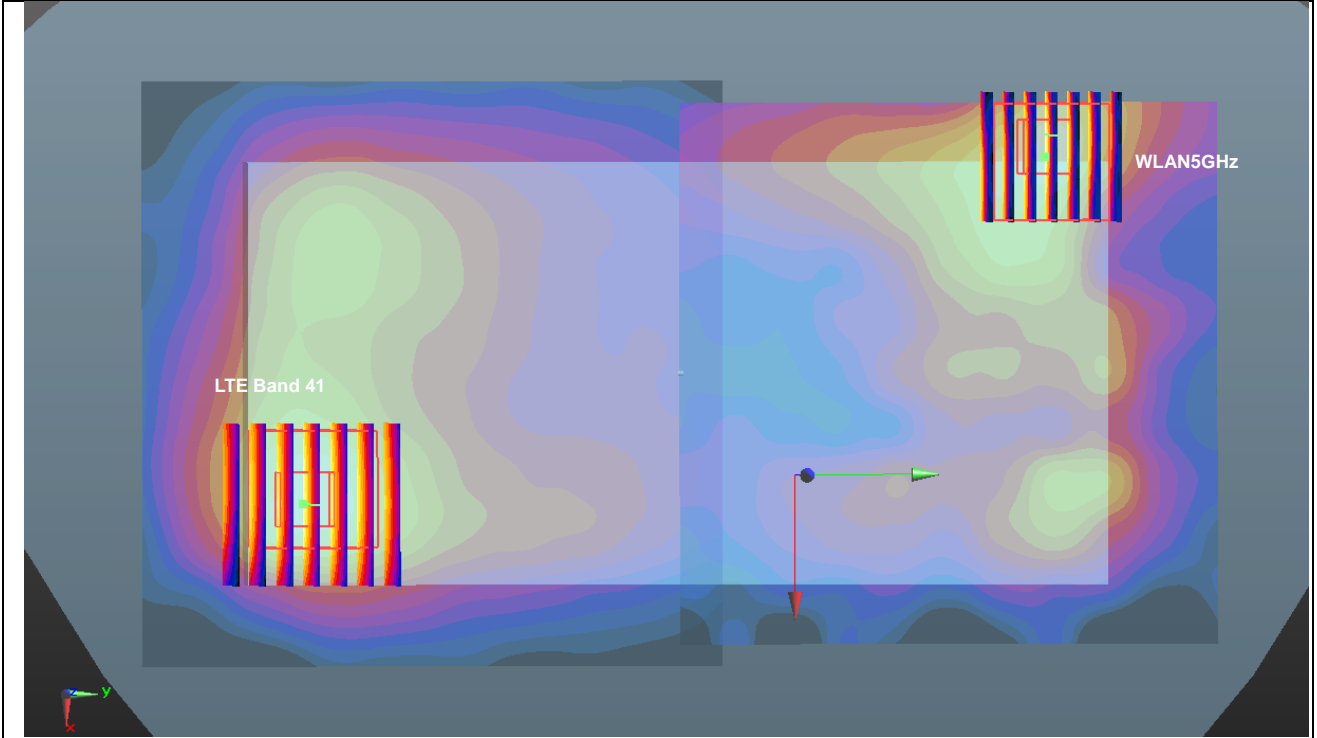
| Case #32 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 7 | Back | 1.291 | 5mm | -23 | -69.8 | -0.66 | 139.2 | 2.45 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



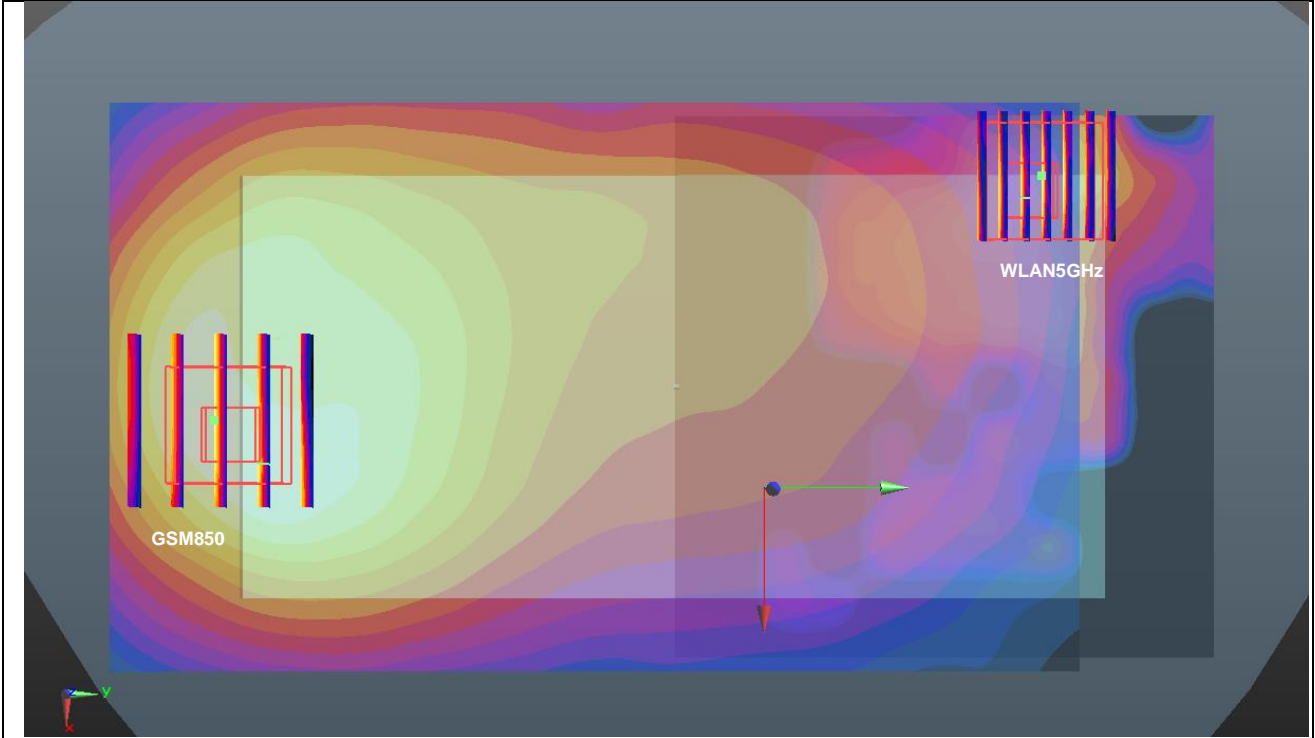
| Case #33 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 41 | Back | 1.398 | 5mm | 23 | -70 | -0.66 | 144.4 | 2.12 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



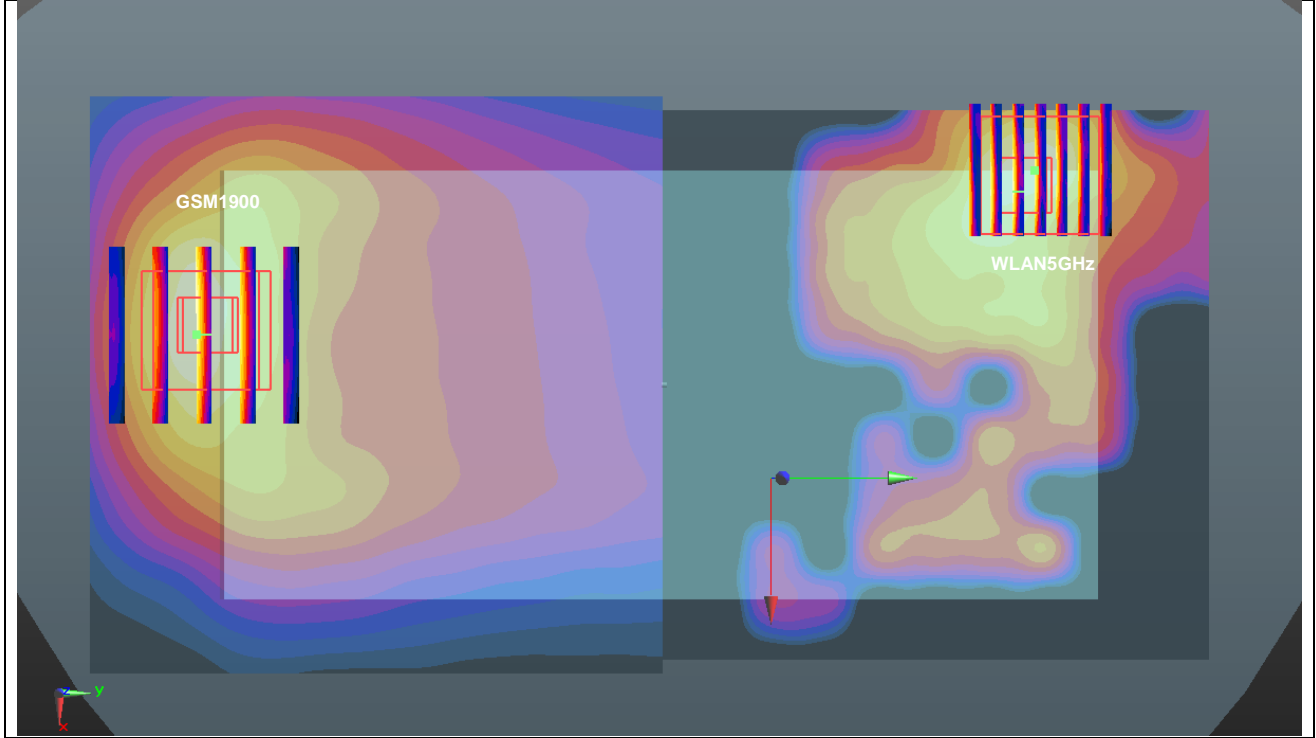
| Case #34 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-----|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 41 | Back | 1.398 | 5mm | 23 | -70 | -0.66 | 152.7 | 2.56 | 0.03 | Not required |
| | WLAN5GHz | | 1.160 | 5mm | -42.4 | 68 | -0.88 | | | | |



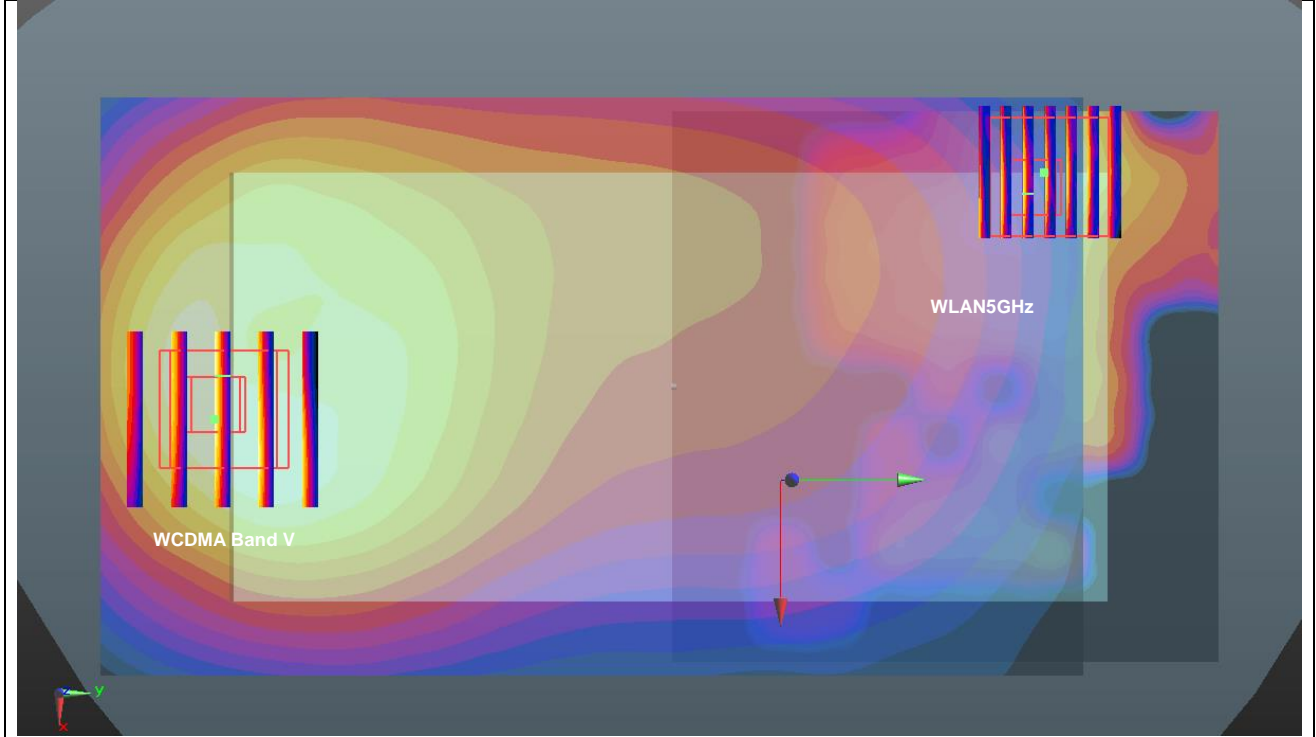
| Case #37 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|----------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM850 | Back | 1.434 | 5mm | 12.4 | -79.1 | -0.96 | 153.3 | 2.55 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



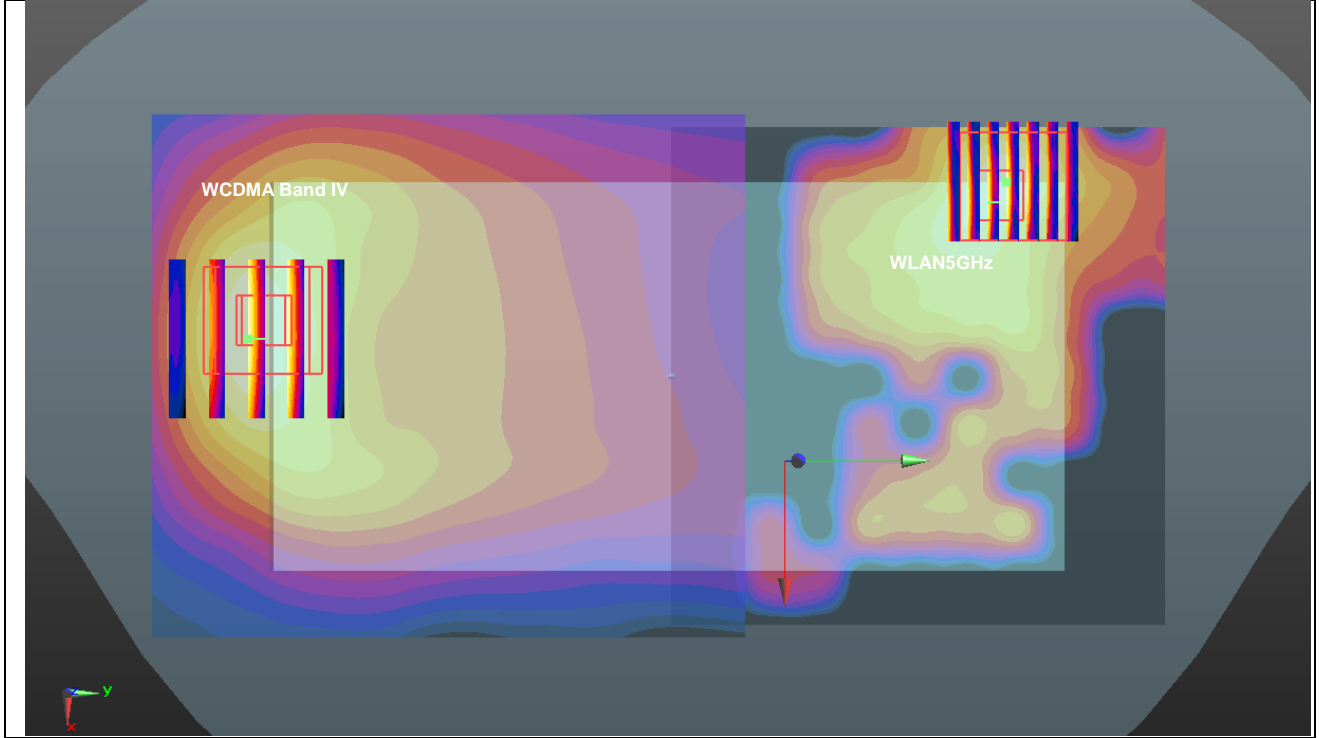
| Case #38 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|----------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM1900 | Back | 1.362 | 5mm | -12.2 | -82.3 | -0.77 | 150.6 | 2.47 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



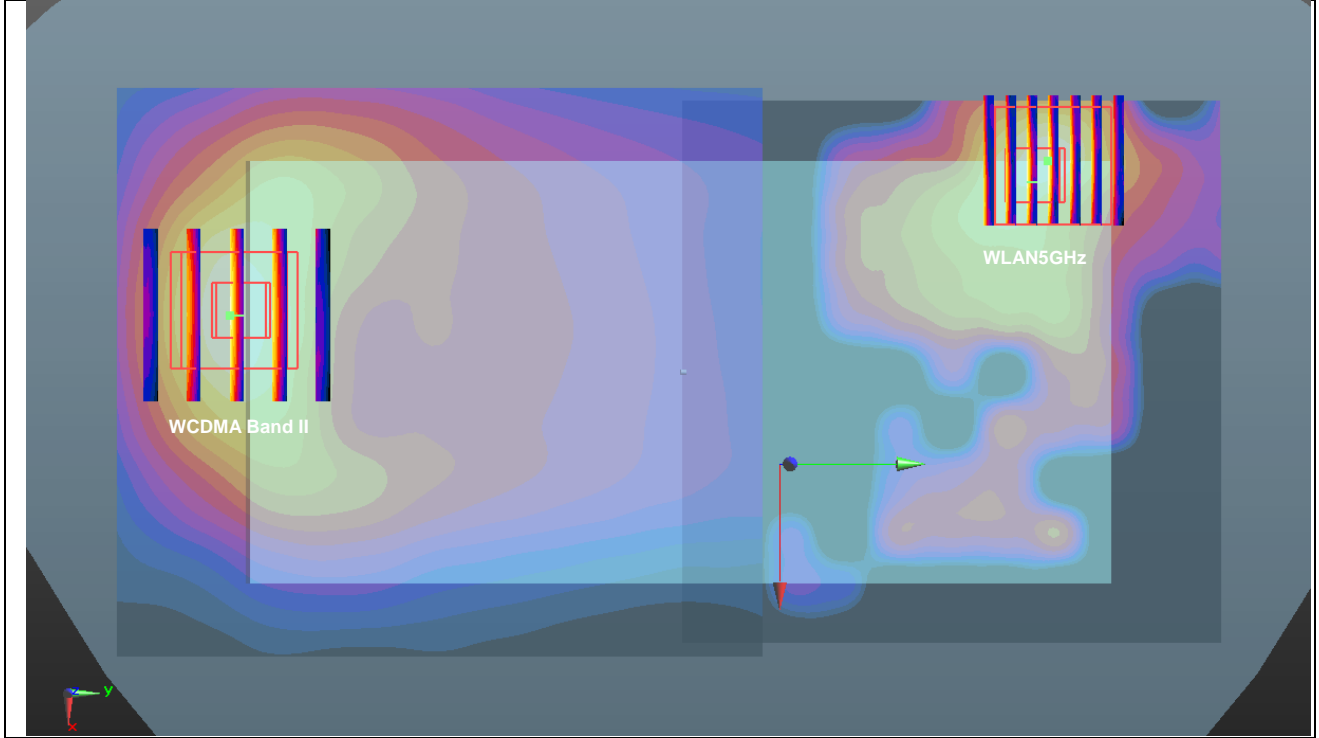
| Case #39 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band V | Back | 1.399 | 5mm | 6 | -82.4 | -1 | 154.6 | 2.51 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



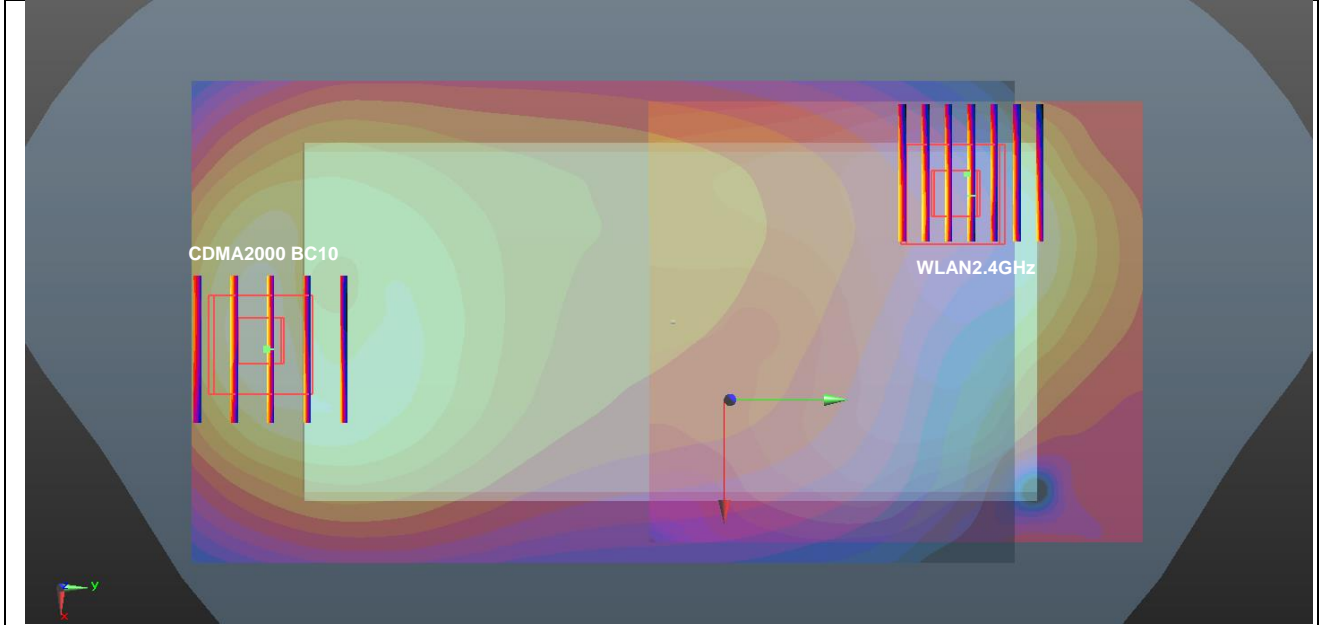
| Case #40 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band IV | Back | 1.383 | 5mm | -9.1 | -80.7 | -0.71 | 149.5 | 2.50 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



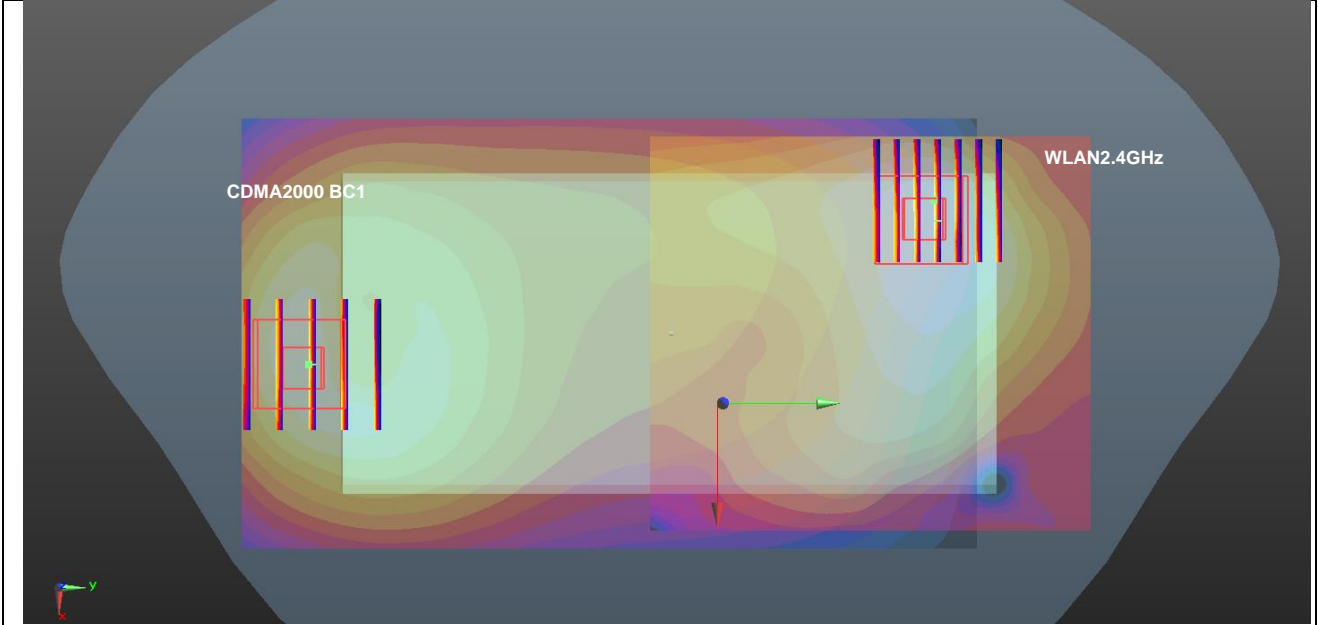
| Case #41 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band II | Back | 1.225 | 5mm | -12.1 | -80.8 | -0.72 | 149.1 | 2.34 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



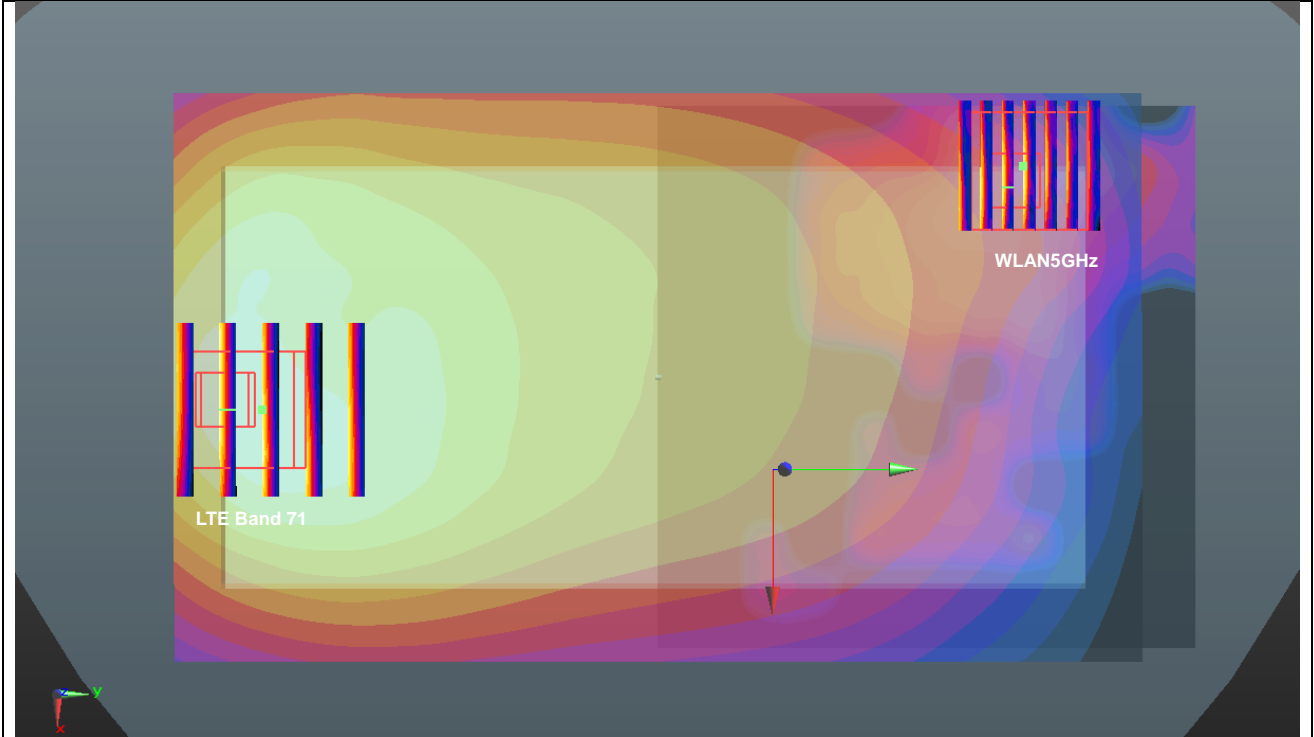
| Case #42 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Back | 1.127 | 5mm | 6 | -88.5 | -1.46 | 157.1 | 1.85 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



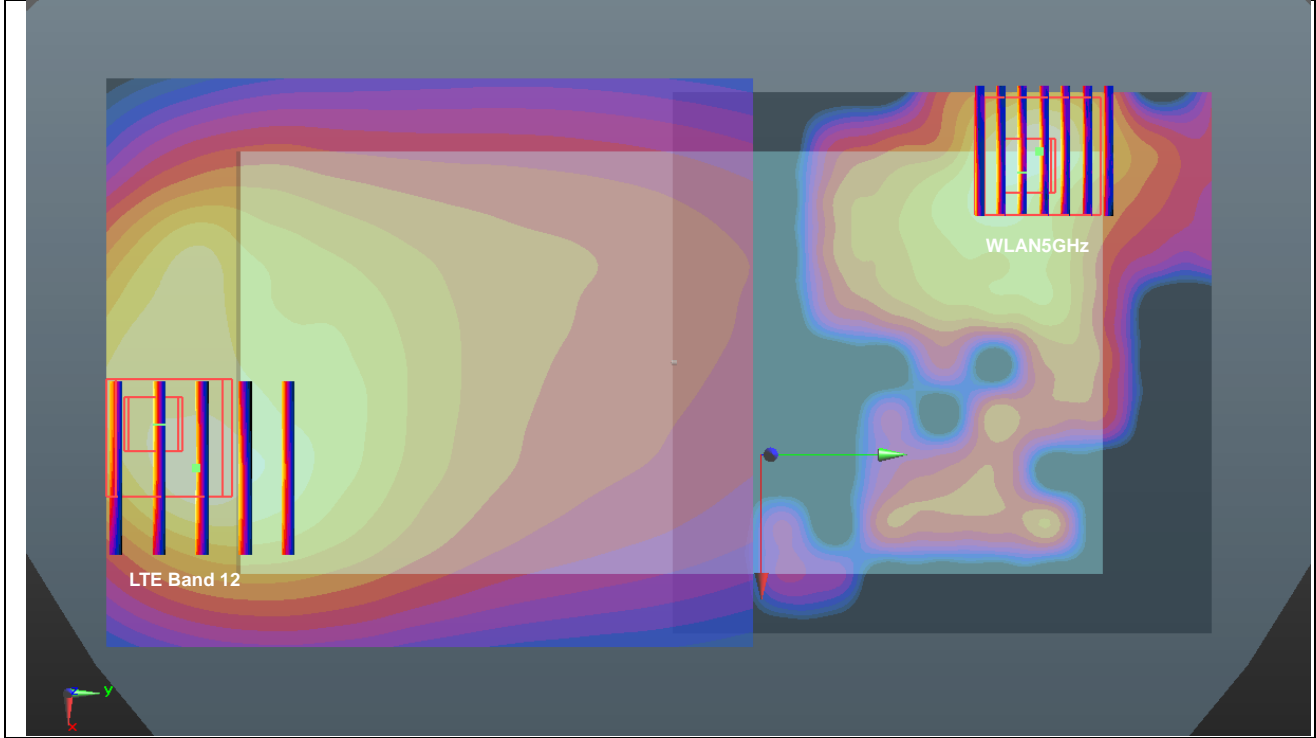
| Case #43 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Back | 1.361 | 5mm | 7.5 | -90.1 | -1.49 | 159.0 | 2.09 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



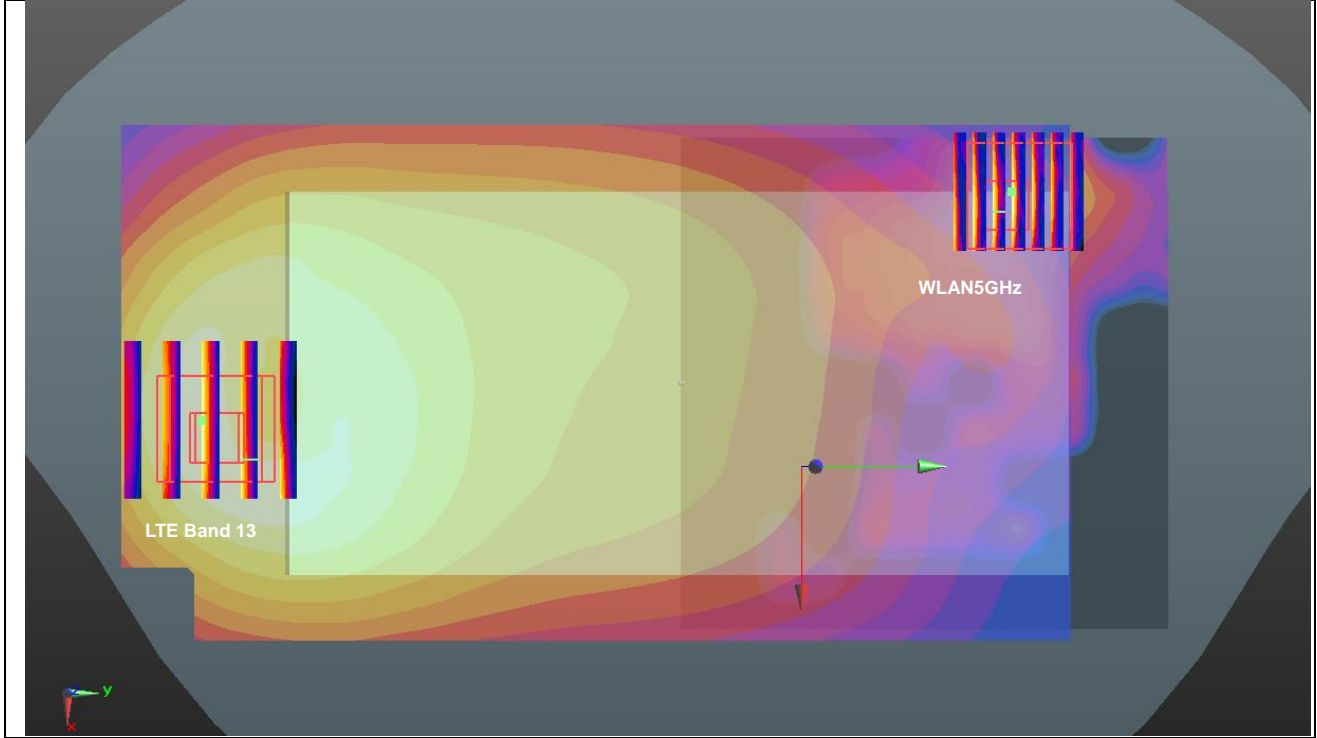
| Case #48 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 71 | Back | 0.898 | 5mm | 4.4 | -79.9 | -0.84 | 151.7 | 2.01 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



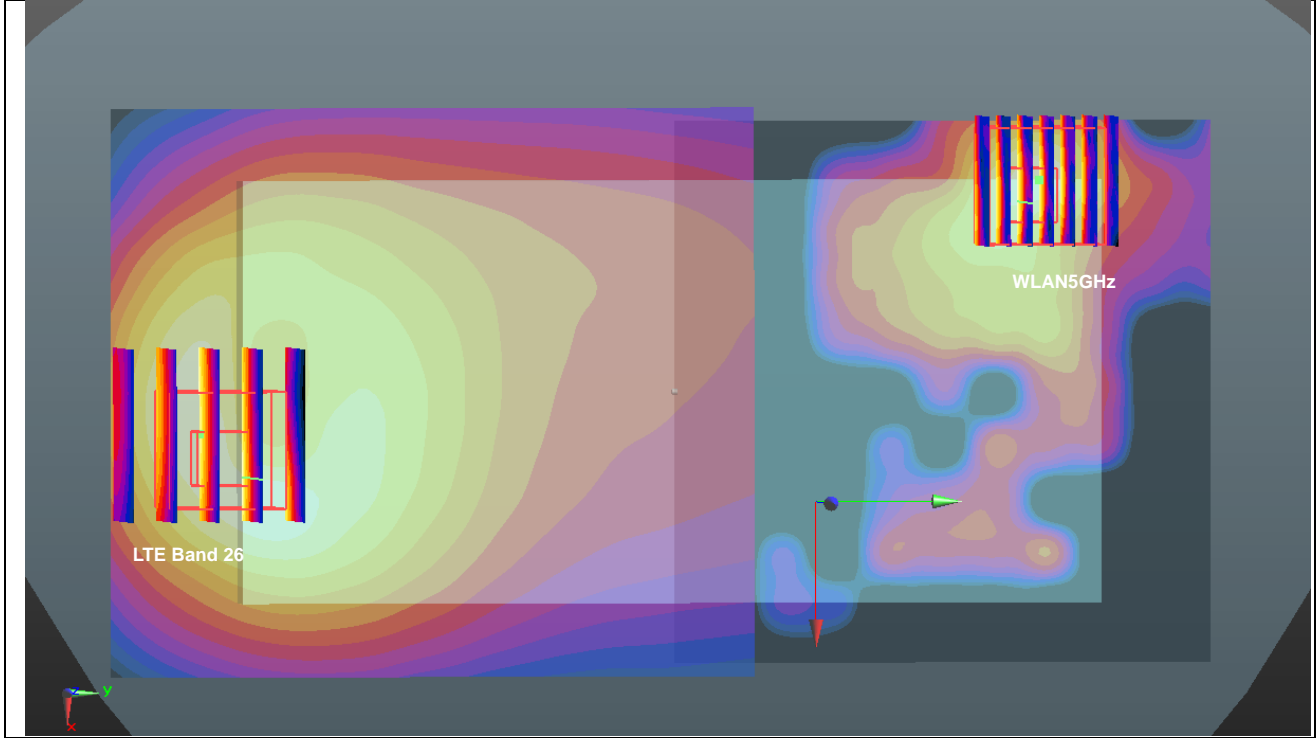
| Case #49 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 12 | Back | 1.116 | 5mm | 11.5 | -94.9 | -1.41 | 168.1 | 2.23 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



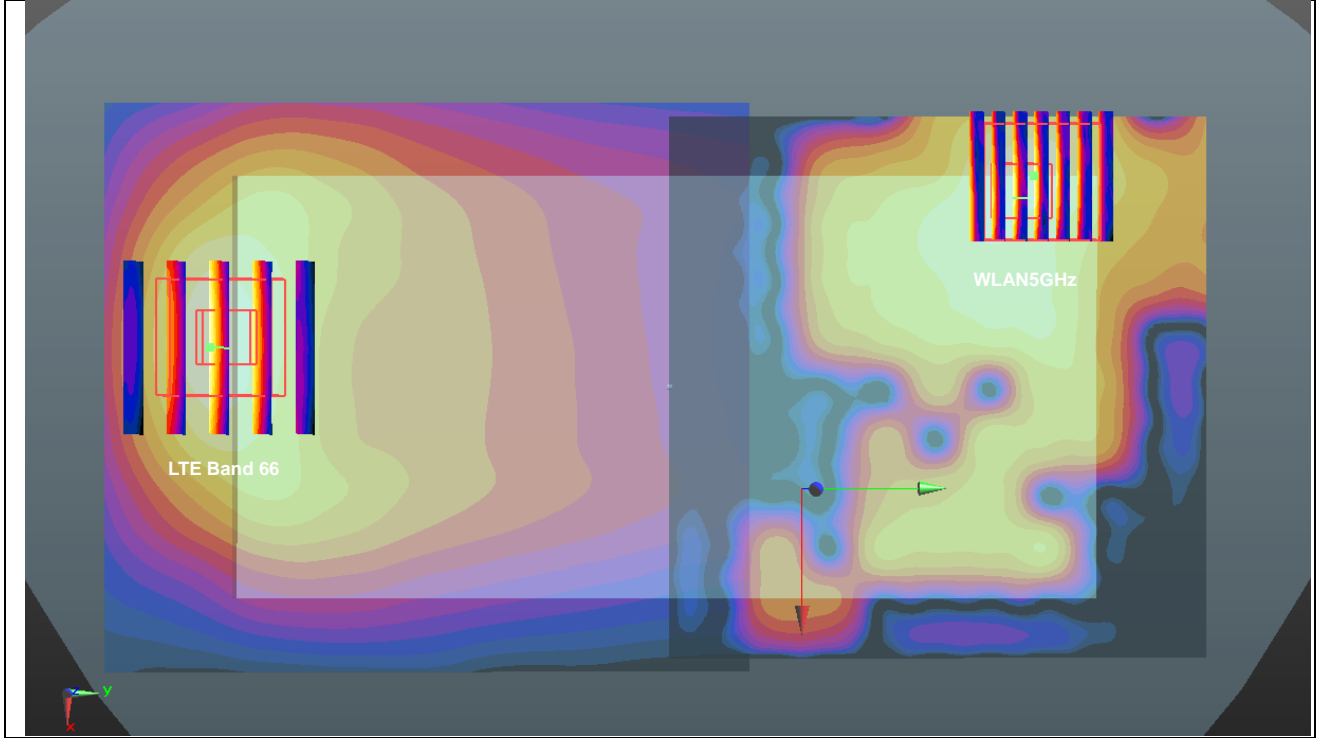
| Case #50 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 13 | Back | 1.242 | 5mm | 13.9 | -93.7 | -1.44 | 167.6 | 2.35 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



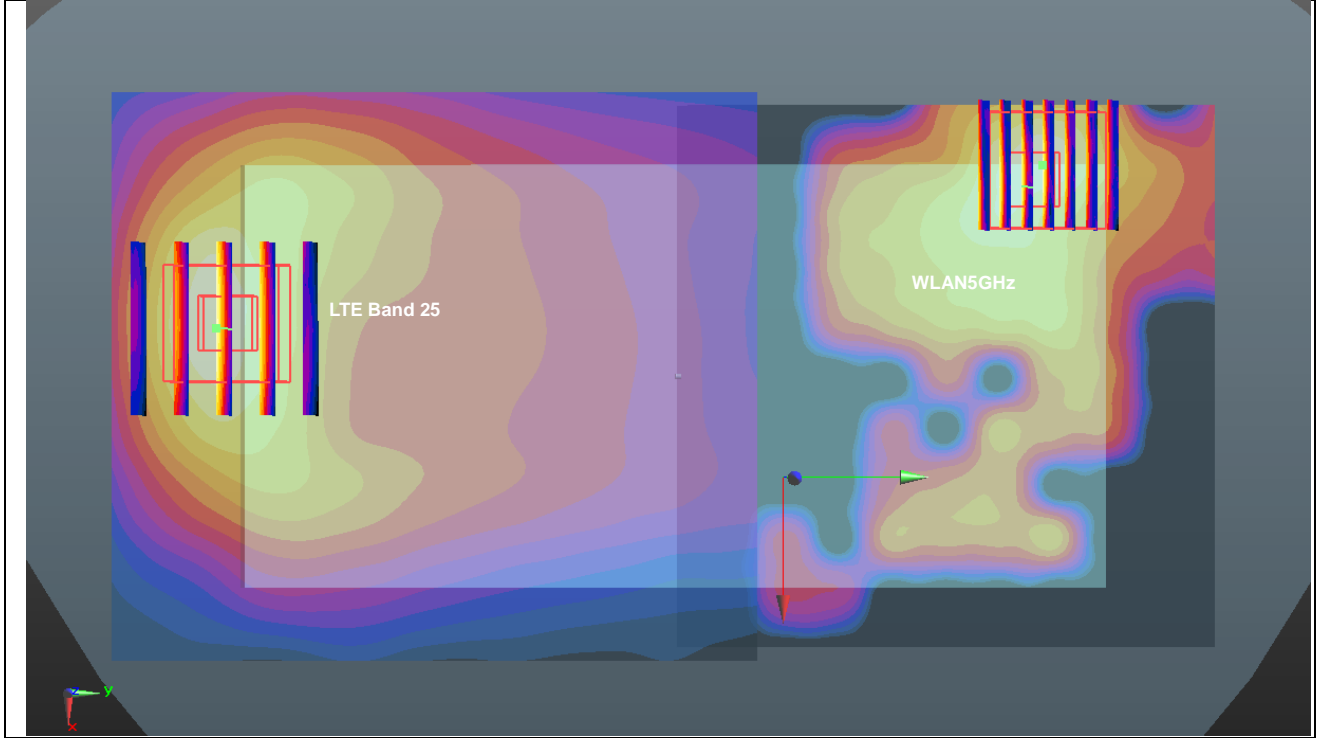
| Case #51 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 26 | Back | 1.383 | 5mm | 13.9 | -93.7 | -1.44 | 167.6 | 2.50 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



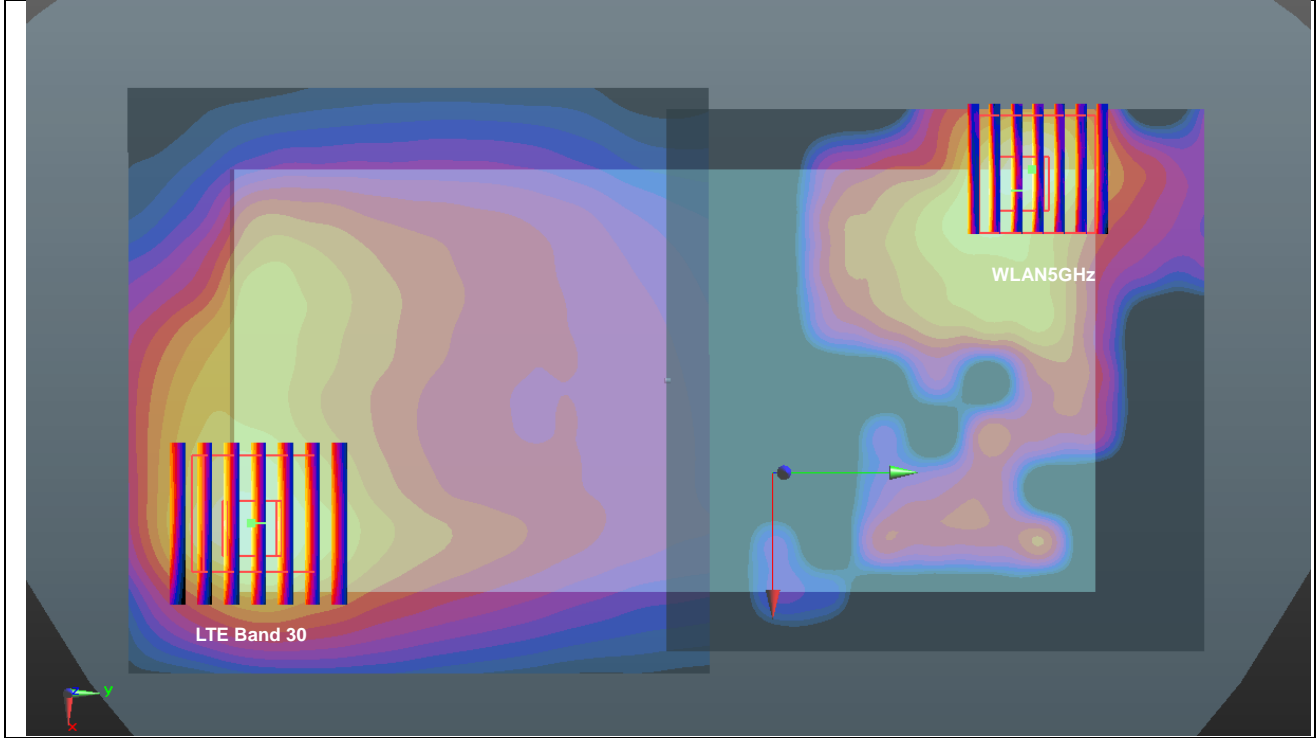
| Case #52 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 66 | Back | 1.329 | 5mm | -10.7 | -82.3 | -0.68 | 150.8 | 2.44 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



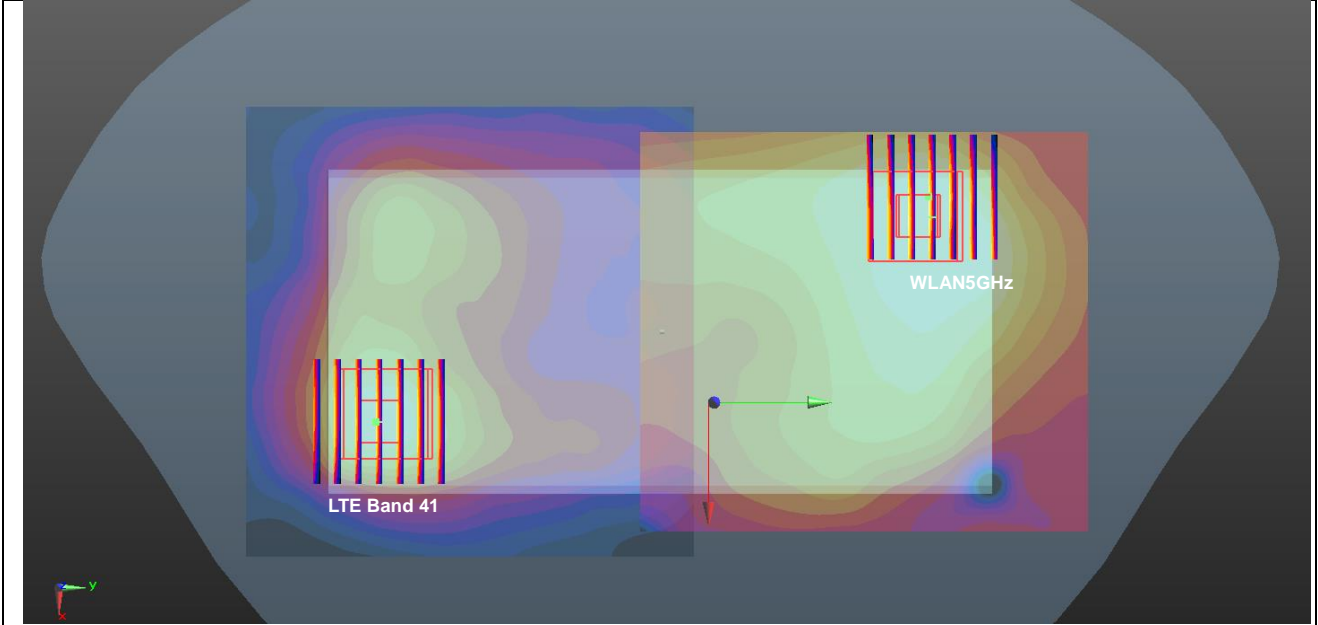
| Case #53 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 25 | Back | 1.329 | 5mm | -10.6 | -82.3 | -0.83 | 150.8 | 2.44 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



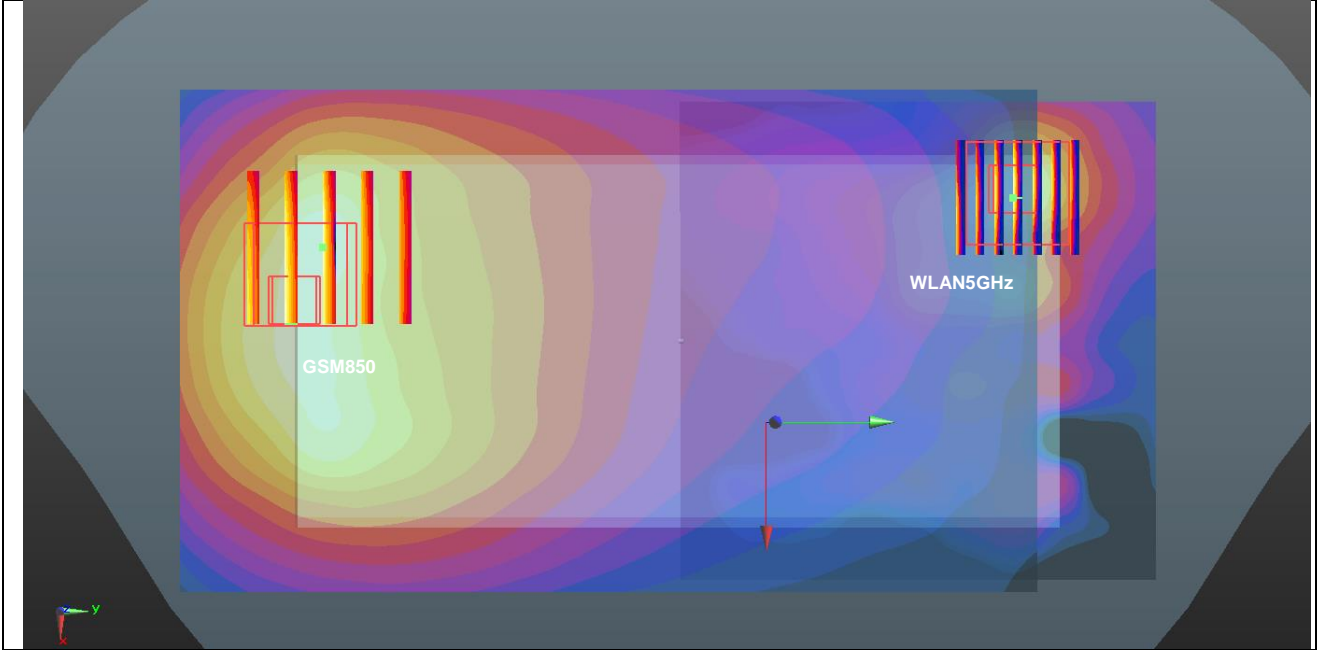
| Case #54 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 30 | Back | 1.098 | 5mm | 28.4 | -77.2 | -1.2 | 157.3 | 2.21 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



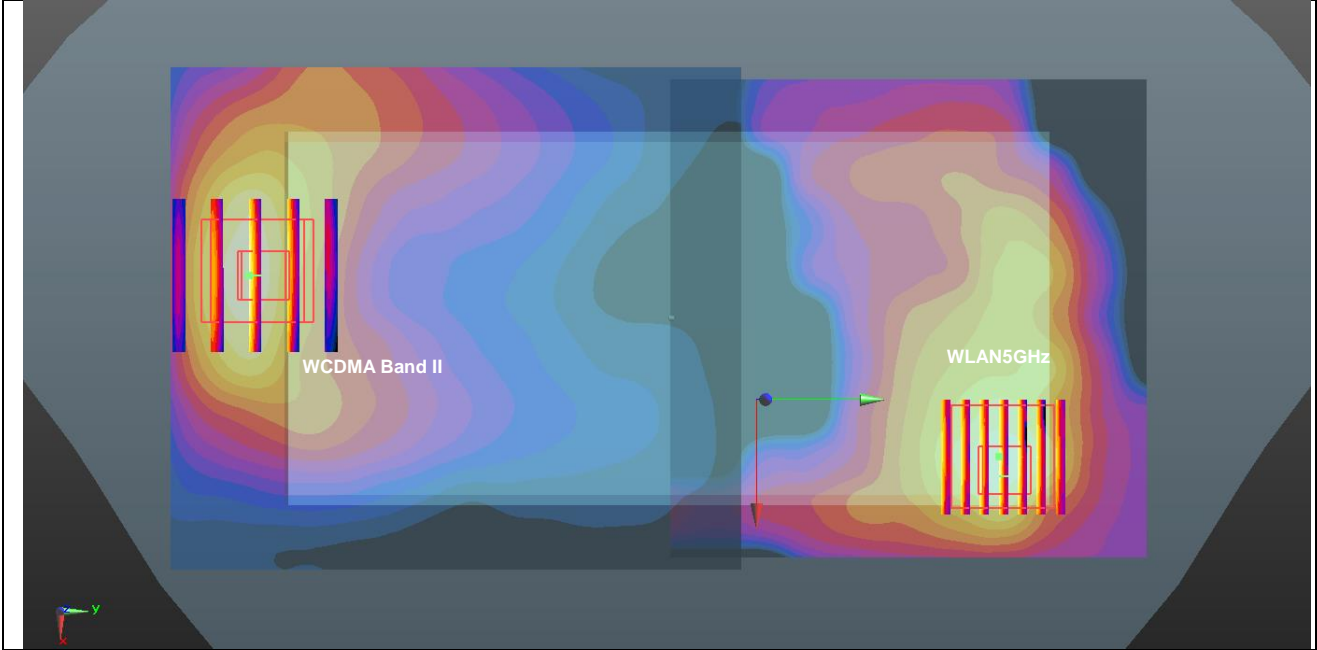
| Case #55 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|---------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 41 | Back | 1.398 | 5mm | 23 | -70 | -0.66 | 148.5 | 2.51 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



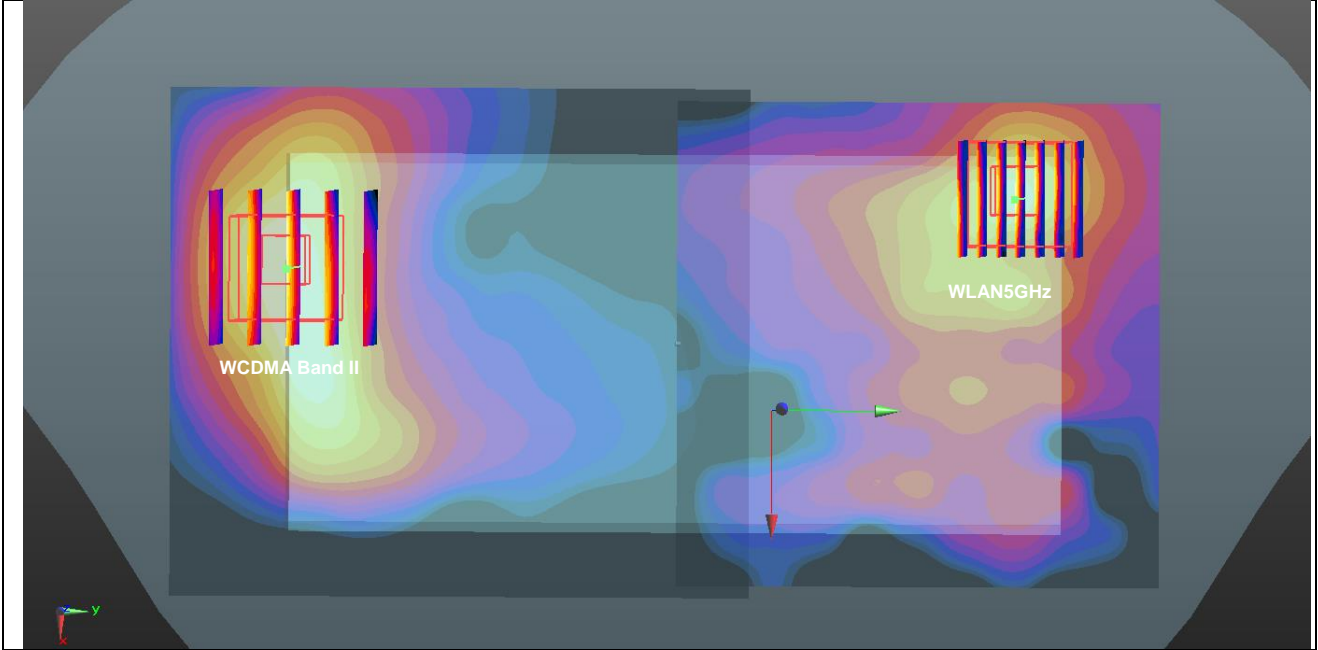
| Case #56 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|----------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | GSM850 | Back | 3.029 | 0mm | -24.3 | -76.6 | -1.07 | 147.6 | 4.01 | 0.05 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



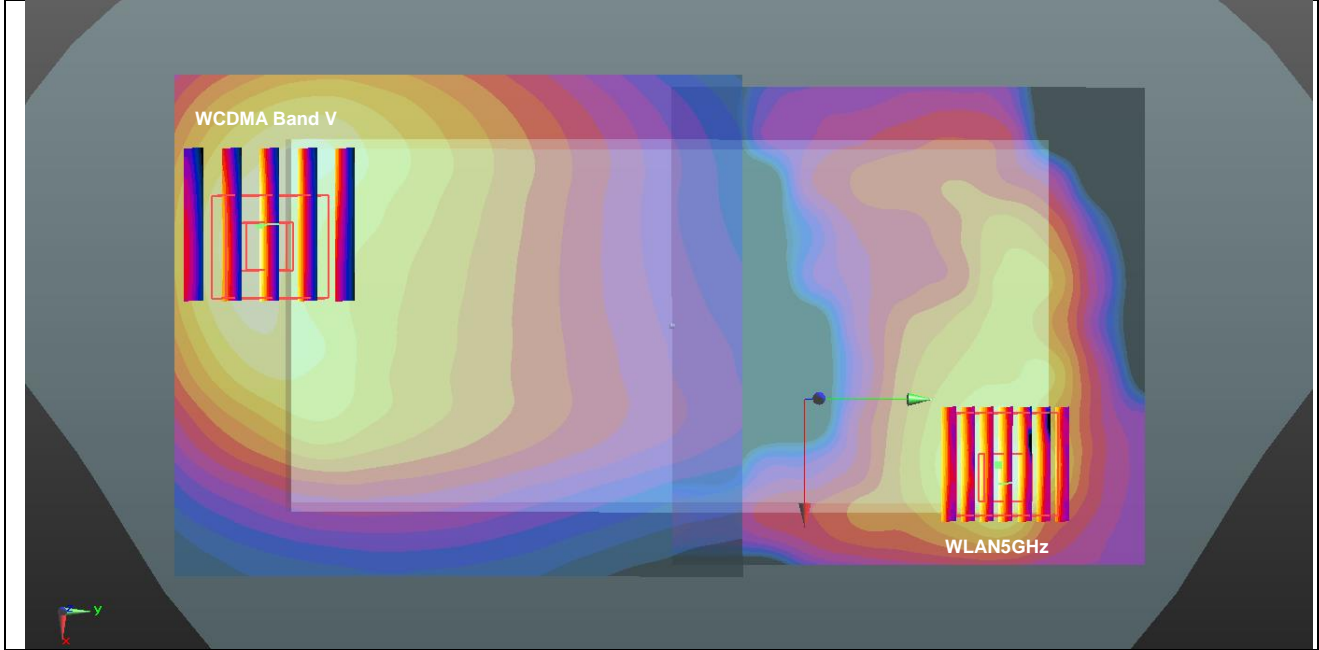
| Case #57 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band II | Front | 2.687 | 0mm | -7.4 | -85.3 | -0.54 | 162.2 | 4.02 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



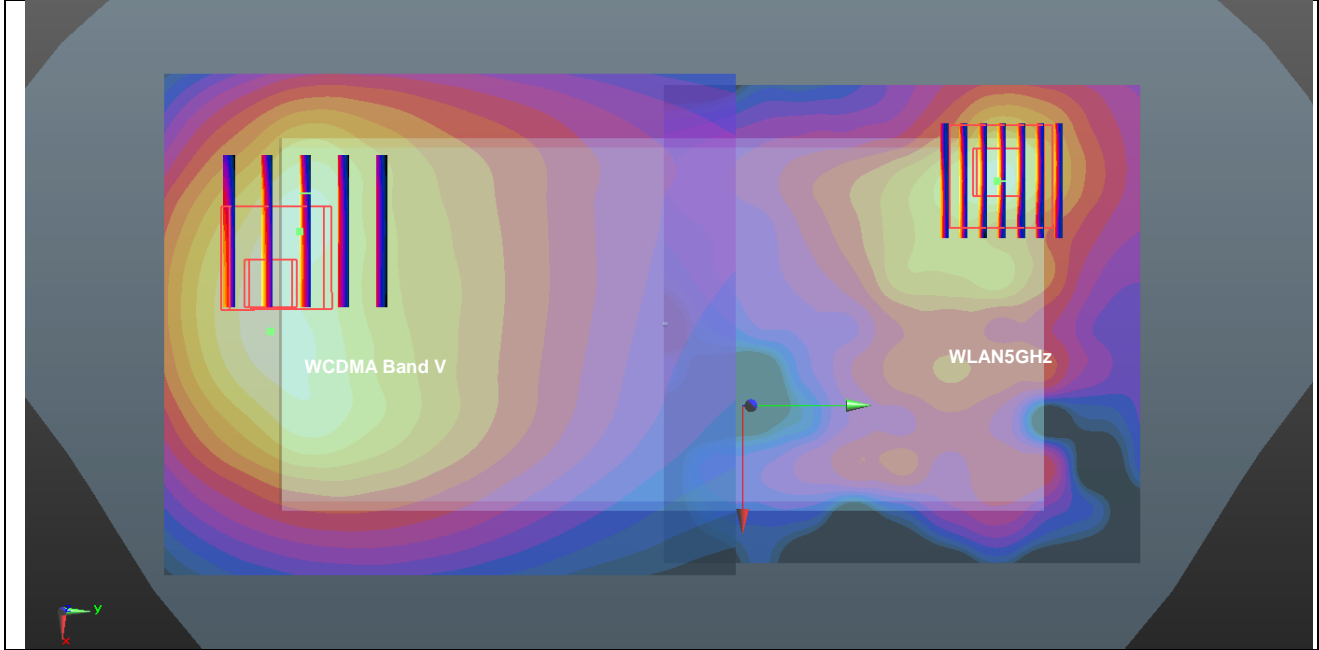
| Case #58 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|------------------------|------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band II | Back | 3.123 | 0mm | -15 | -81 | -0.63 | 152.7 | 4.10 | 0.05 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



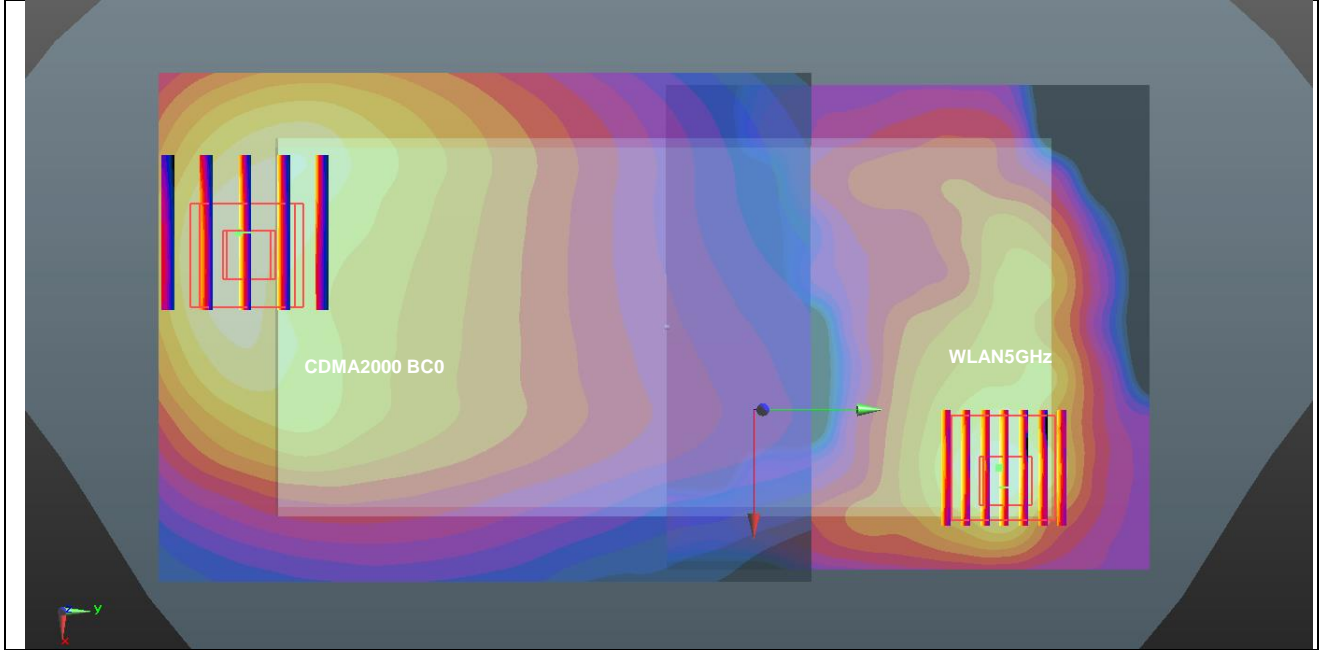
| Case #59 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band V | Front | 2.796 | 0mm | -19.4 | -85.4 | -0.87 | 165.8 | 4.13 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



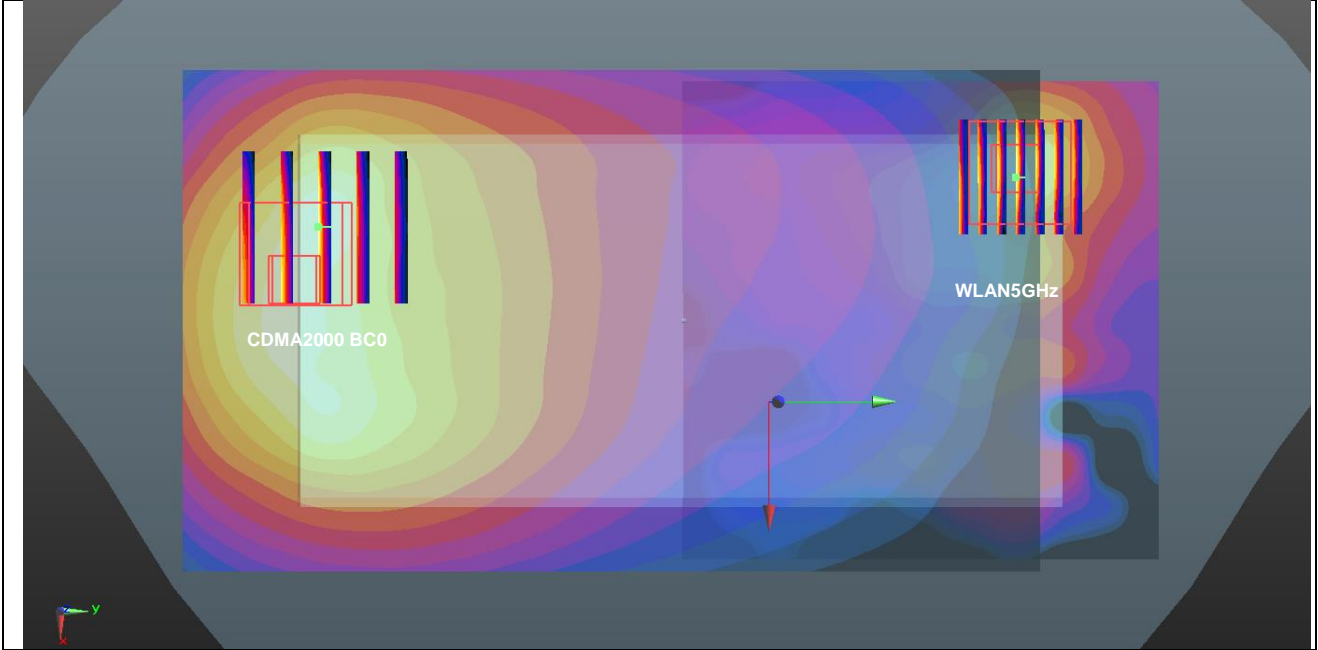
| Case #60 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | WCDMA Band V | Back | 3.234 | 0mm | -25.9 | -76.5 | -0.93 | 147.4 | 4.22 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



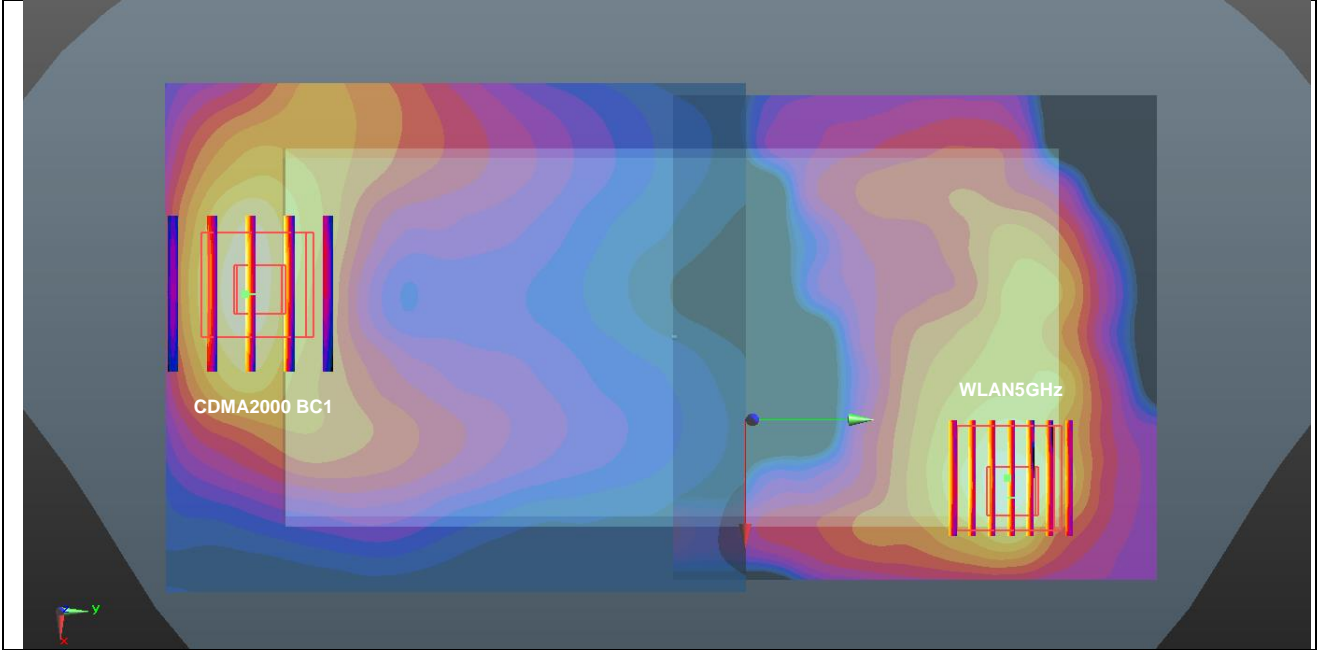
| Case #61 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Front | 2.971 | 0mm | -14.7 | -85.3 | -0.87 | 164.3 | 4.30 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



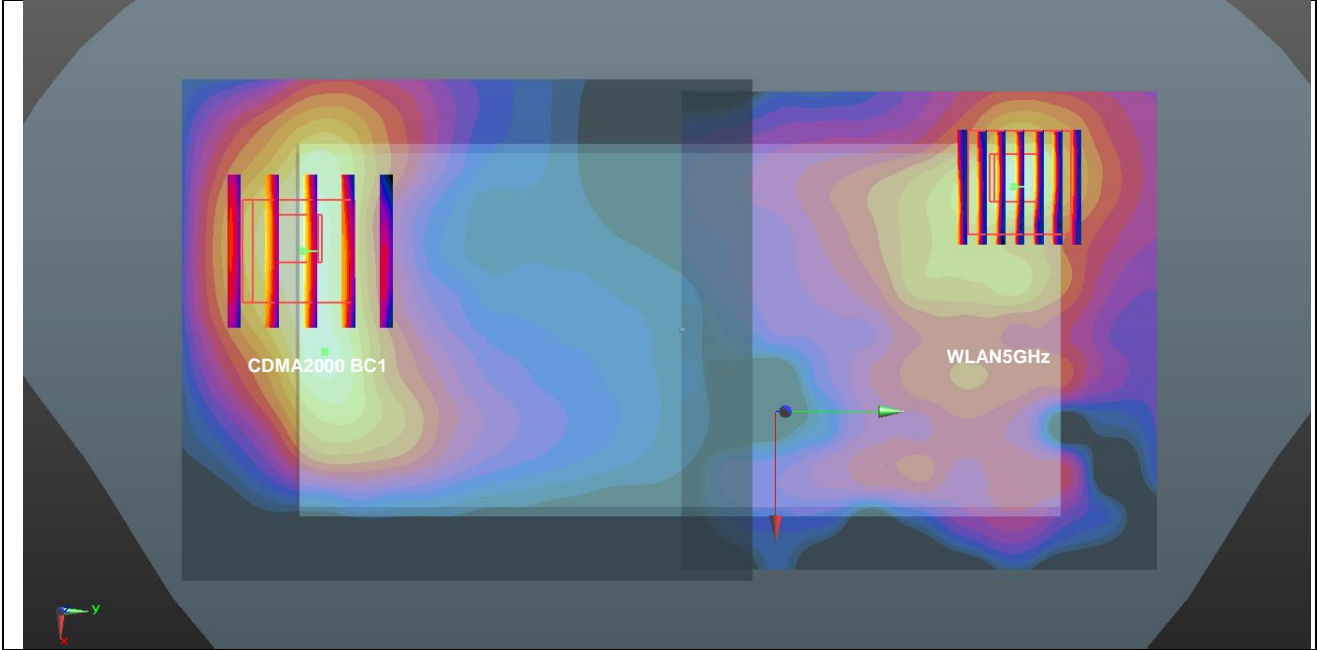
| Case #62 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Back | 3.422 | 0mm | -24.3 | -76.5 | -0.86 | 147.5 | 4.40 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



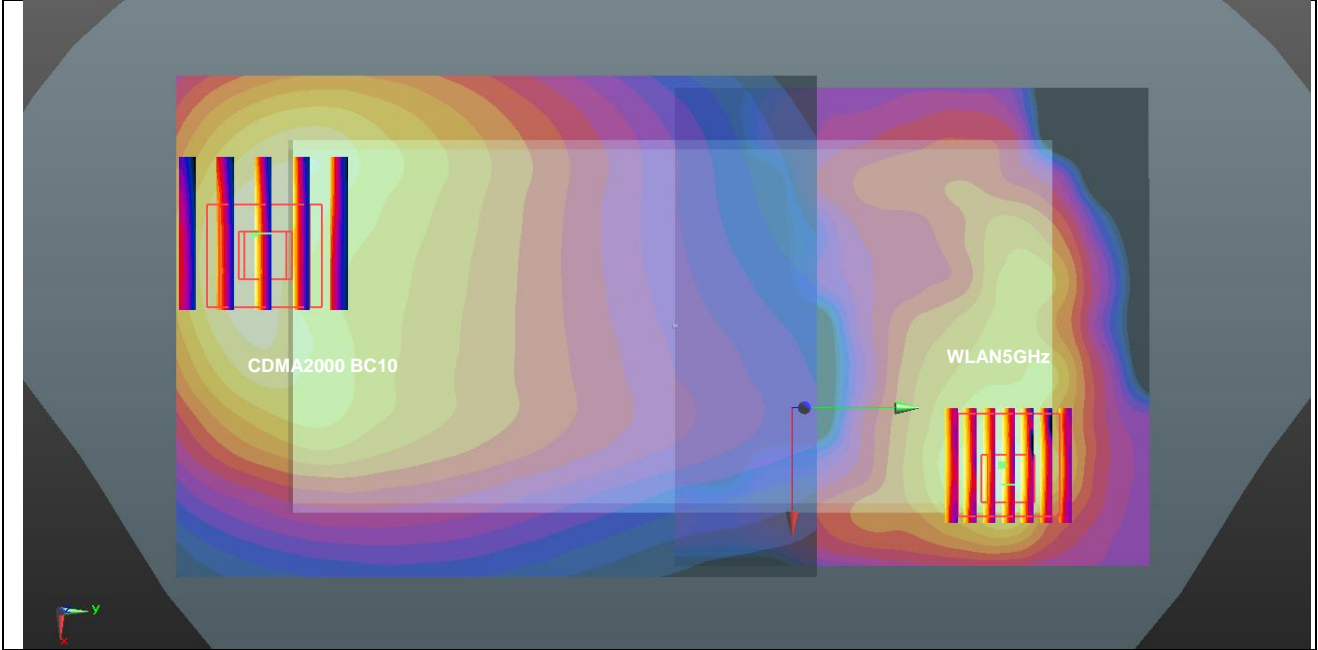
| Case #63 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Front | 2.704 | 0mm | -9 | -83.7 | -0.59 | 161.1 | 4.03 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



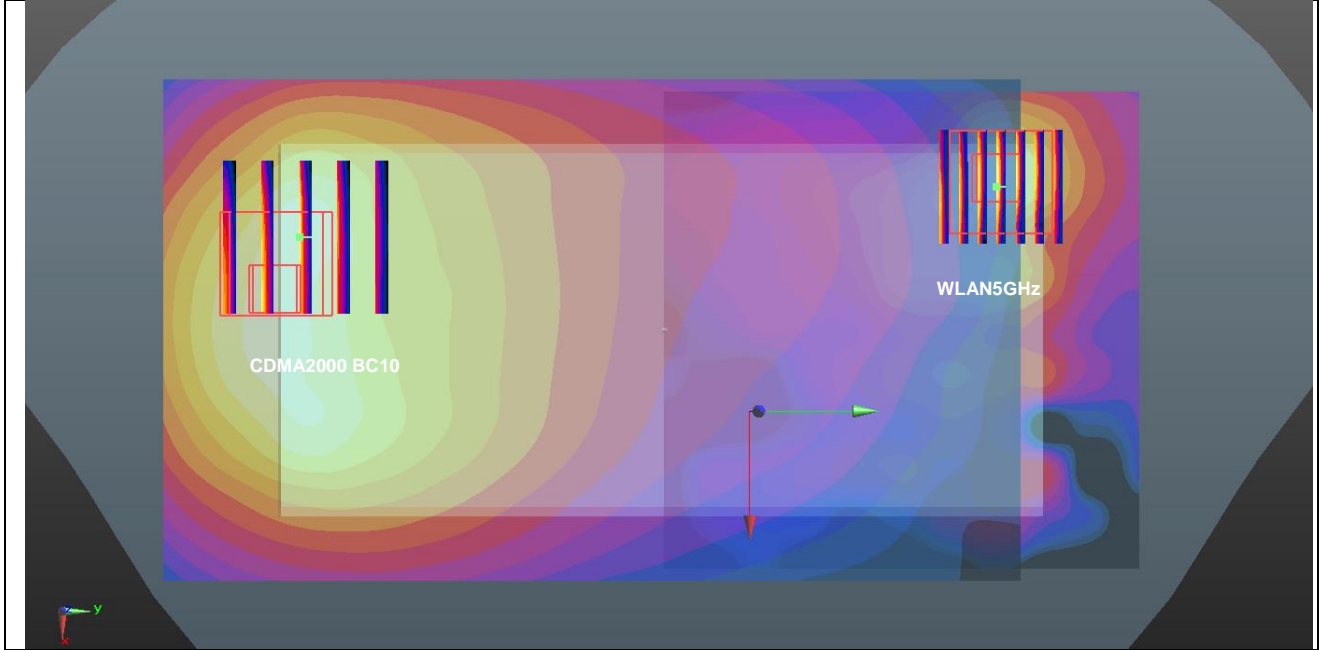
| Case #64 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Back | 3.291 | 0mm | -16.5 | -81.1 | -0.66 | 152.7 | 4.27 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



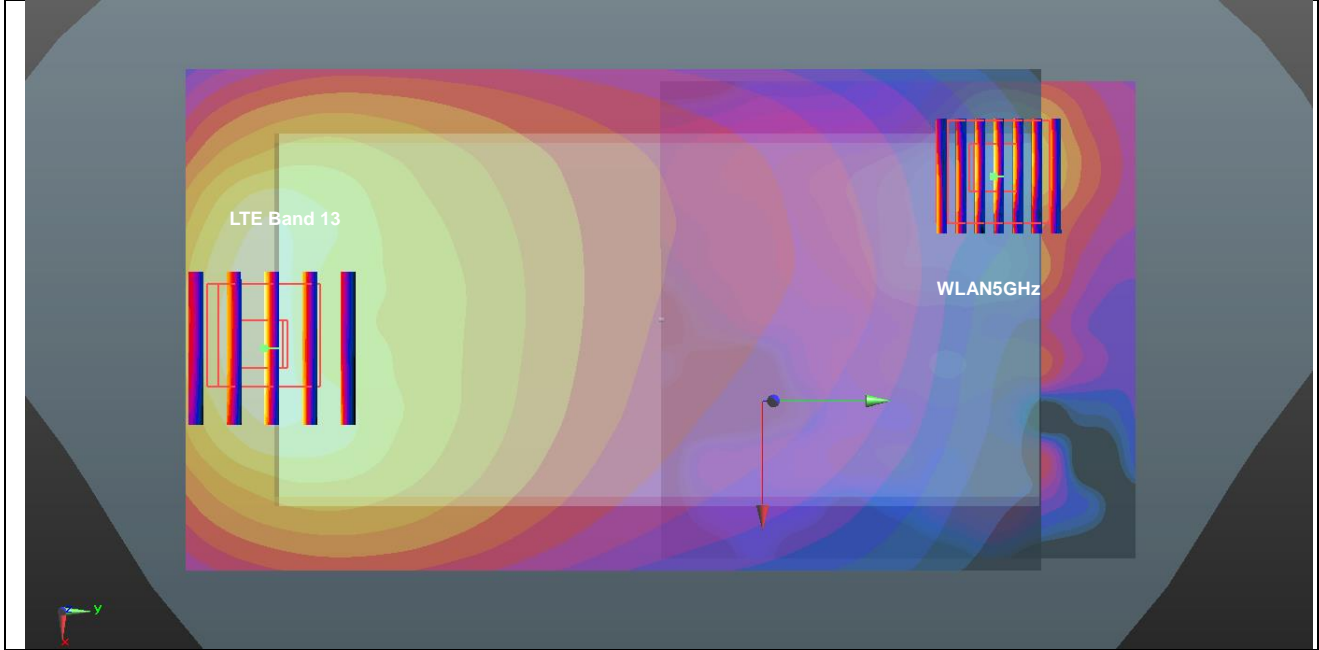
| Case #65 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Front | 2.784 | 0mm | -13.1 | -85.3 | -0.88 | 163.8 | 4.11 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



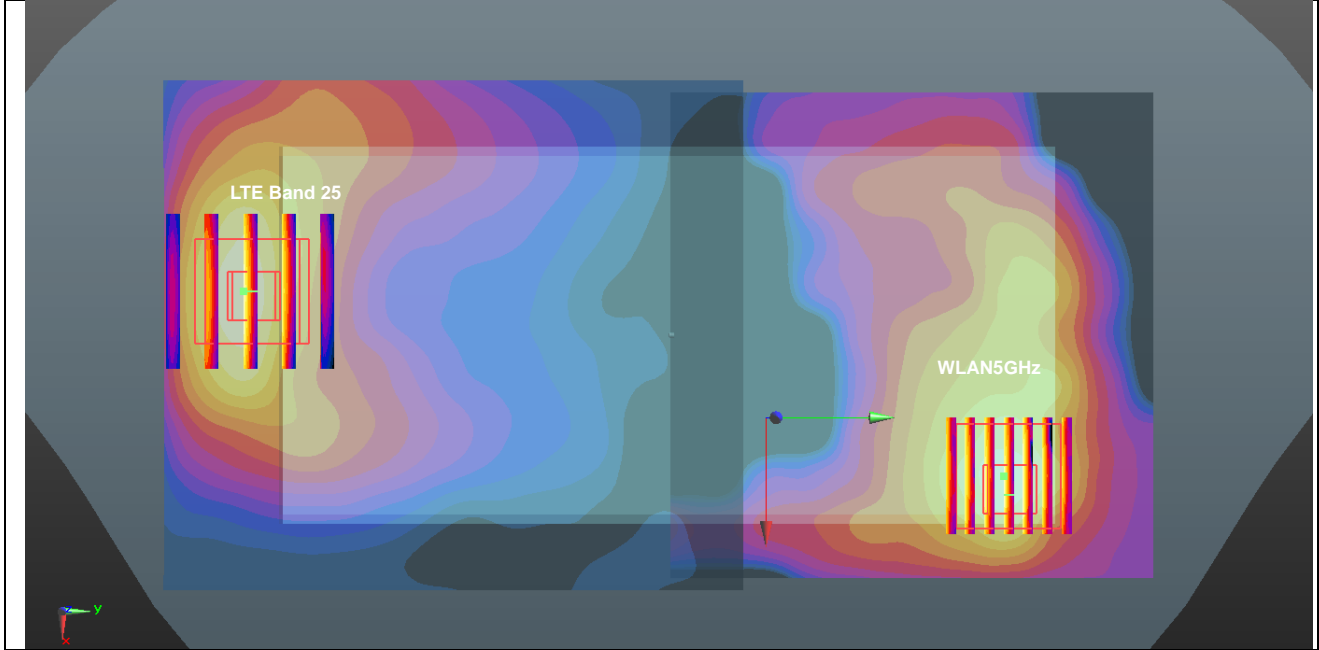
| Case #66 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Back | 3.236 | 0mm | -24.3 | -76.5 | -0.09 | 147.5 | 4.22 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



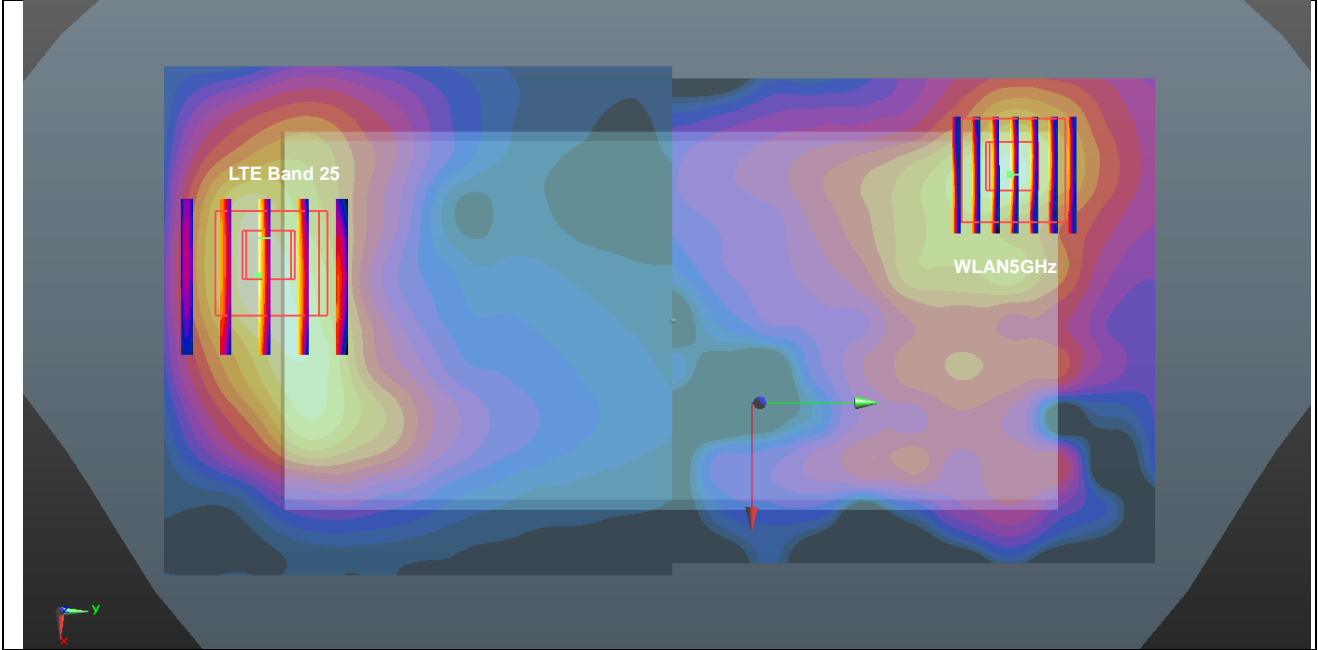
| Case #67 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 13 | Back | 3.075 | 0mm | 6 | -83.5 | -1.28 | 158.8 | 4.06 | 0.05 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



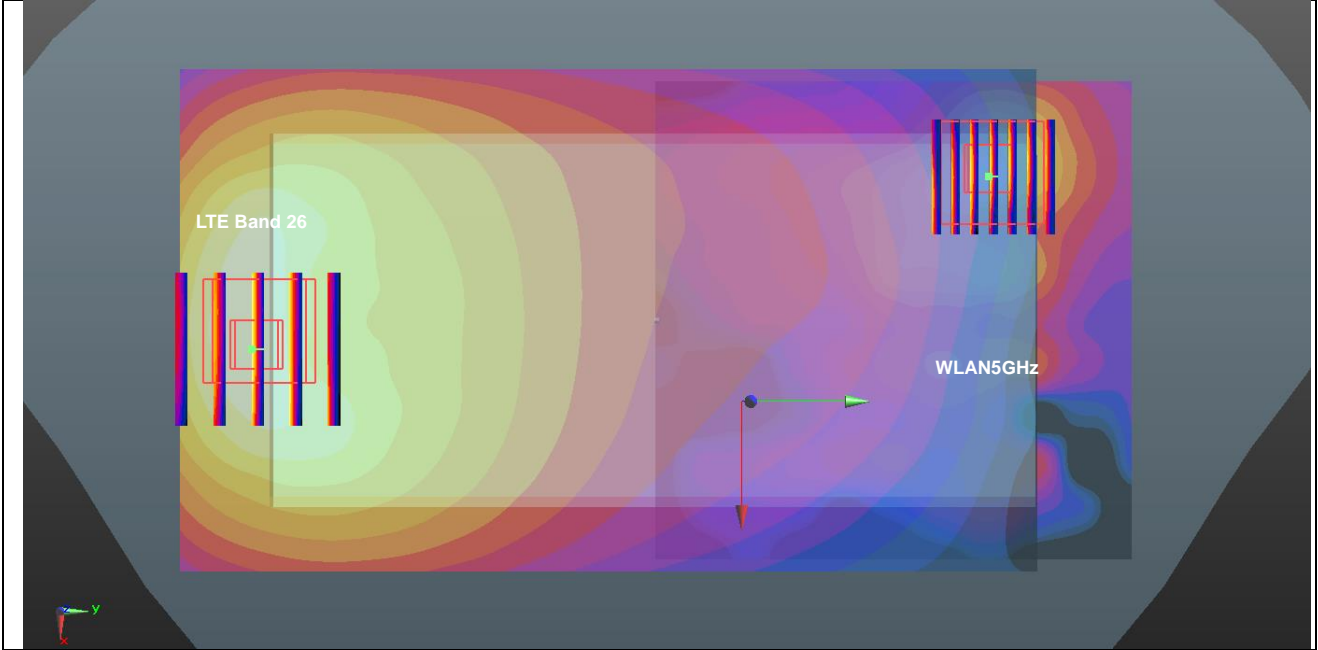
| Case #68 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 25 | Front | 2.697 | 0mm | -7.4 | -85.3 | -0.53 | 162.2 | 4.03 | 0.05 | Not required |
| | WLAN5GHz | | 1.330 | 0mm | 34.6 | 71.4 | -1.46 | | | | |



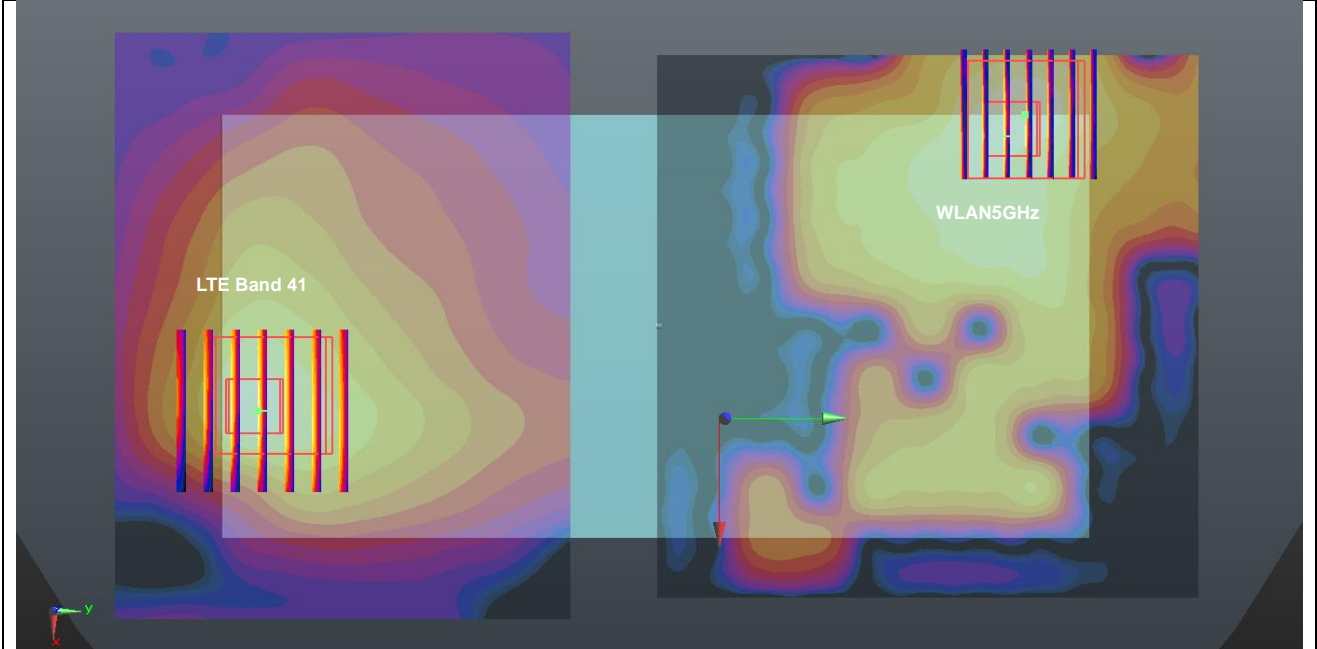
| Case #69 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 25 | Back | 3.142 | 0mm | -15.4 | -83.9 | -0.6 | 155.5 | 4.12 | 0.05 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



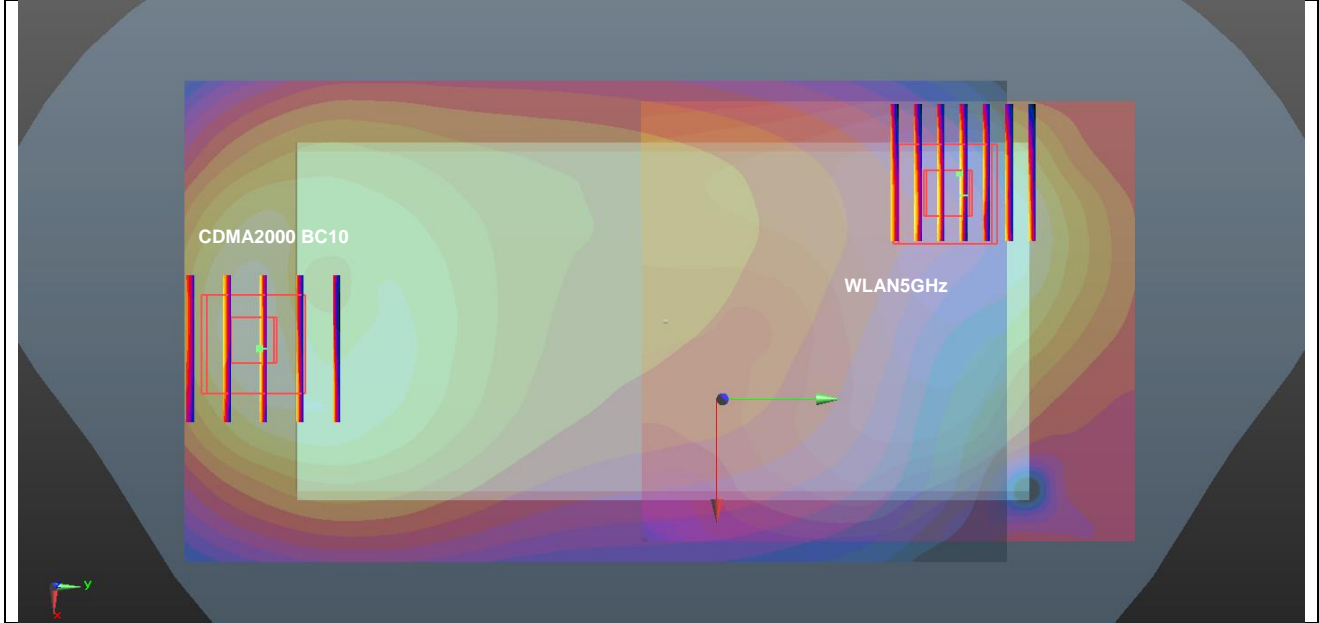
| Case #70 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 26 | Back | 3.410 | 0mm | 7.6 | -83.4 | -1.29 | 159.1 | 4.39 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



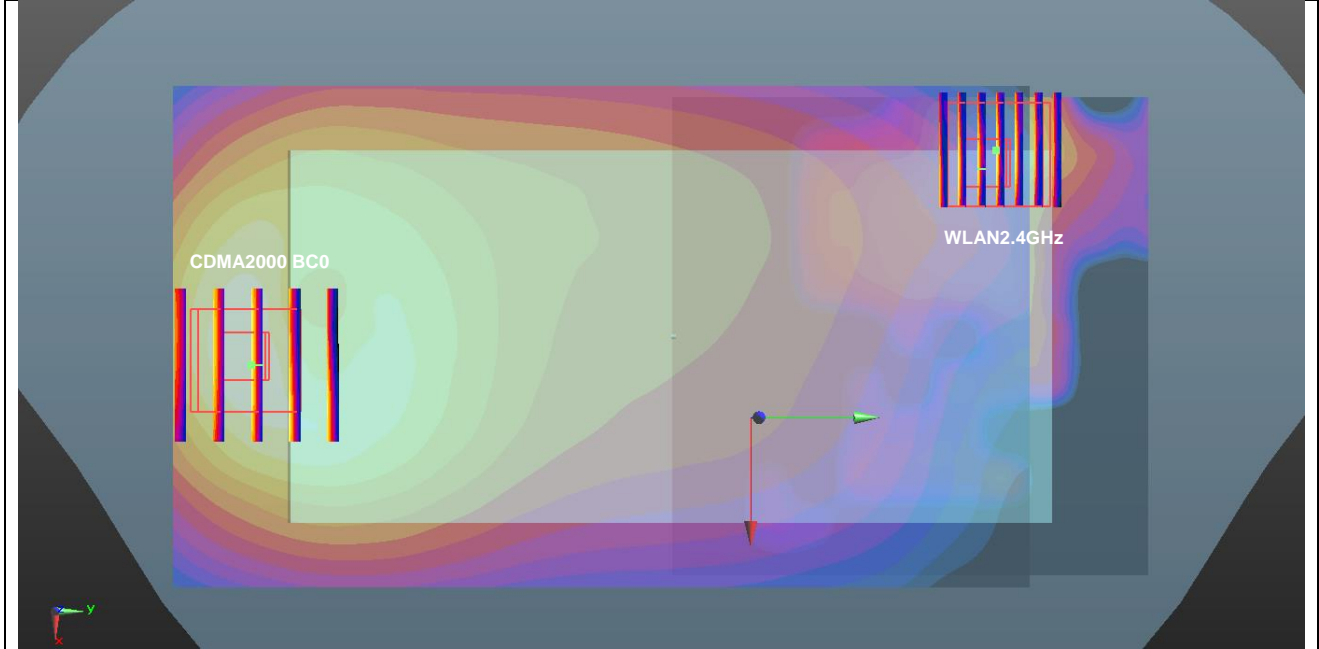
| Case #71 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|-------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 41 | Back | 3.384 | 0mm | 21.4 | -68.8 | -0.74 | 149.3 | 4.37 | 0.06 | Not required |
| | WLAN5GHz | | 0.981 | 0mm | -31.6 | 70.8 | -1.39 | | | | |



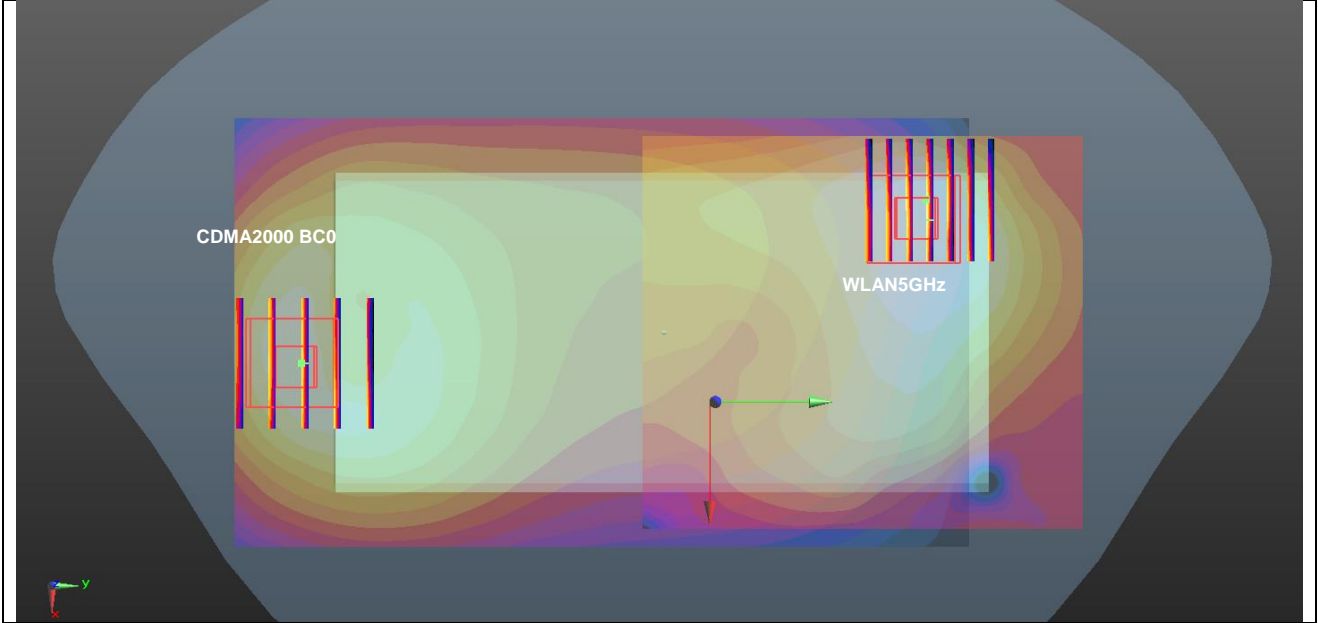
| Case #72 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|---------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC10 | Back | 1.127 | 5mm | 6 | -88.5 | -1.46 | 160.4 | 2.24 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



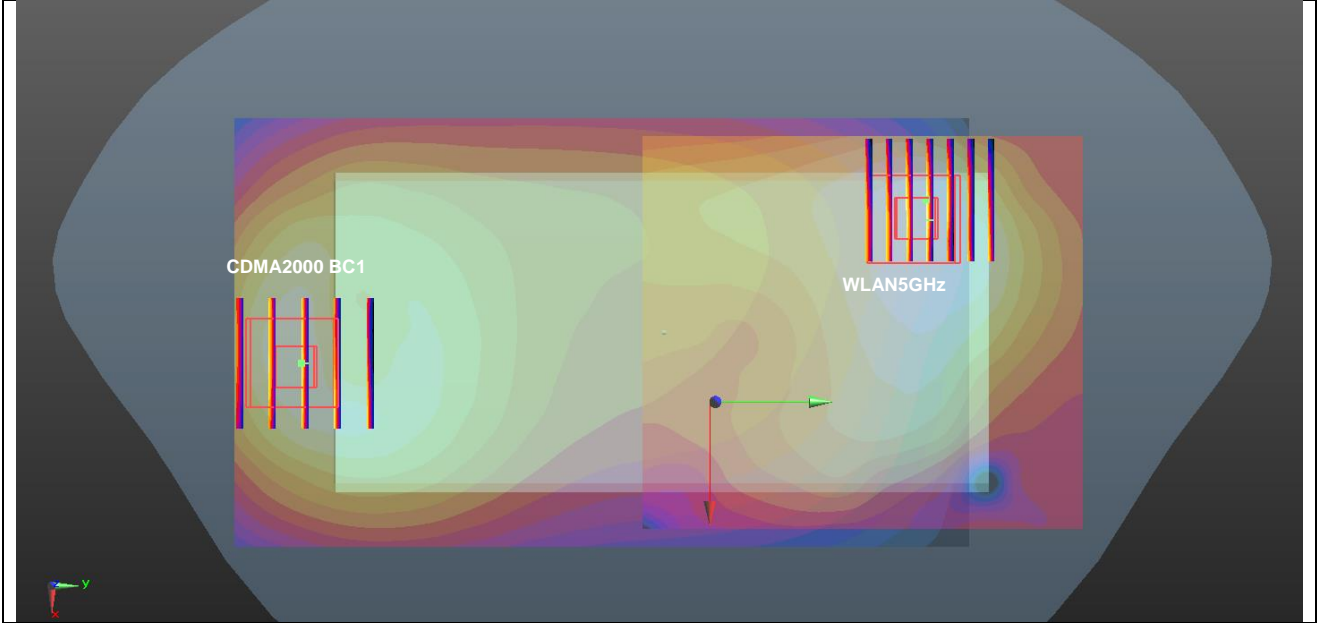
| Case #73 | Band | Position | 1g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|---------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Back | 1.198 | 5mm | 7.5 | -90.1 | -1.49 | 159.0 | 1.92 | 0.02 | Not required |
| | WLAN2.4GHz | | 0.726 | 5mm | -29.4 | 64.6 | -1.63 | | | | |



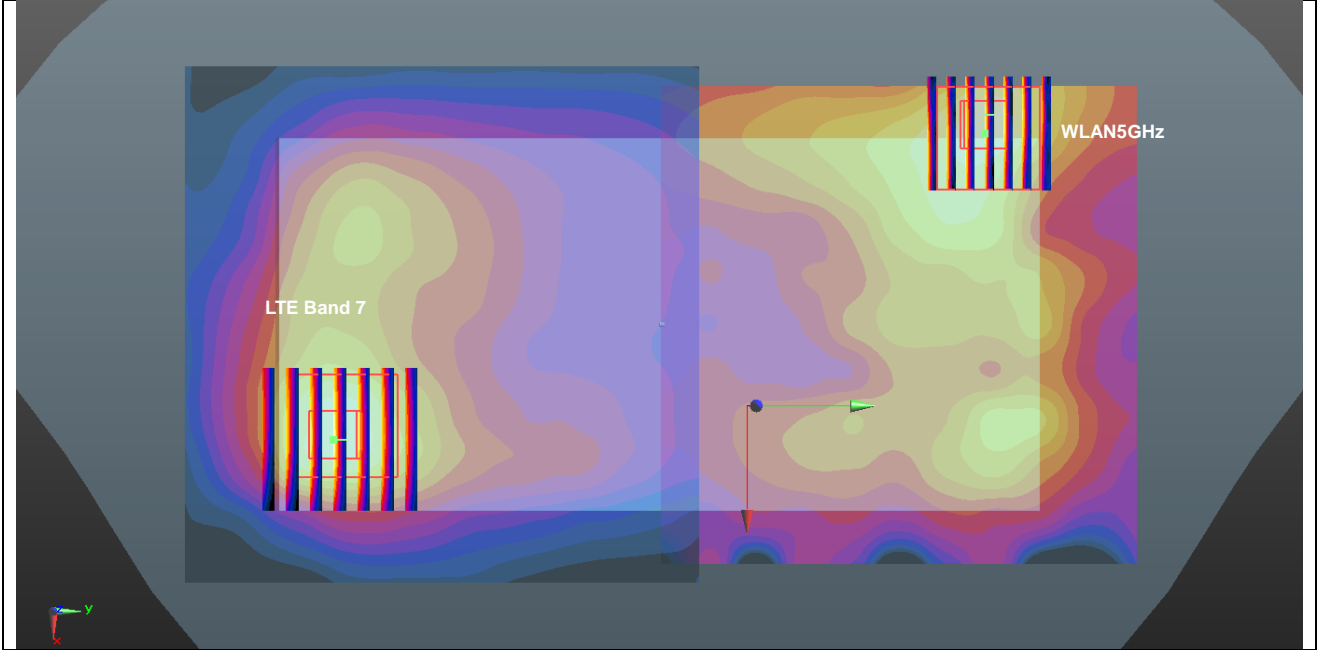
| Case #74 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC0 | Back | 1.198 | 5mm | 7.5 | -90.1 | -1.49 | 162.4 | 2.31 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



| Case #75 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|--------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | CDMA2000 BC1 | Back | 1.361 | 5mm | 7.5 | -90.1 | -1.49 | 162.4 | 2.47 | 0.02 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -35.8 | 66.4 | -1.7 | | | | |



| Case #76 | Band | Position | 10g SAR (W/kg) | Gap (mm) | SAR peak location (mm) | | | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|----------|------------|----------|----------------|----------|------------------------|-------|-------|------------------|-------------------|---------------|------------------|
| | | | | | X | Y | Z | | | | |
| | LTE Band 7 | Back | 1.291 | 5mm | -23 | -69.8 | -0.66 | 139.2 | 2.40 | 0.03 | Not required |
| | WLAN5GHz | | 1.112 | 5mm | -42.4 | 68 | -0.88 | | | | |





17. 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 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. 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 144 tuner states.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

17.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix C.

Test Engineer: Nick Hu



18. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

19. References

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



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3 - 1087

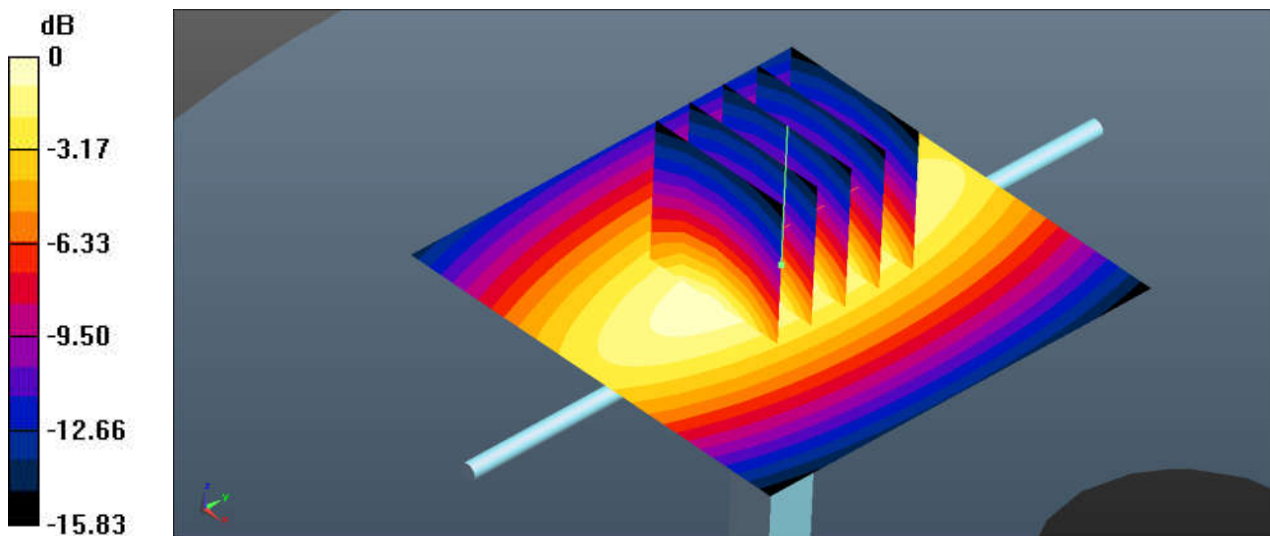
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 42.105$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.6 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.78, 6.78, 6.78); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM2; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.34 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 52.46 V/m ; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.93 W/kg
SAR(1 g) = 2.03 W/kg ; SAR(10 g) = 1.36 W/kg
Maximum value of SAR (measured) = 2.36 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg

System Check_Head_835MHz

DUT: D835V2 - 4d151

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL_850 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.269$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.7 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM2; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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

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

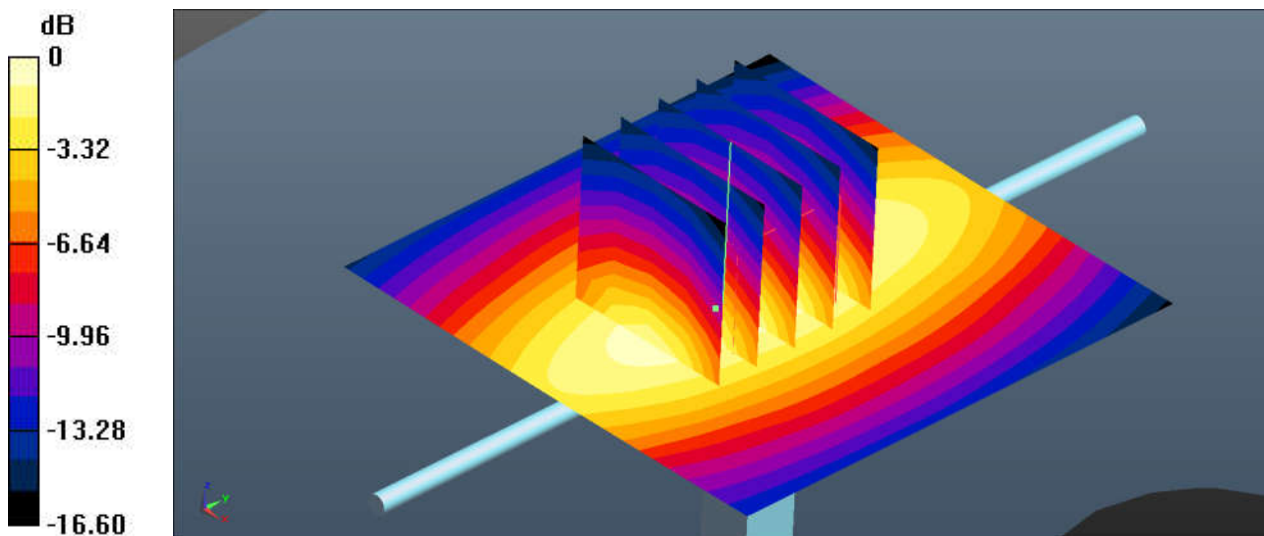
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 51.87 V/m ; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 2.23 W/kg ; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.63 W/kg



0 dB = 2.68 W/kg = 4.28 dBW/kg

System Check_Head_1750MHz

DUT: D1750V2 - 1090

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 41.08$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.4, 5.4, 5.4); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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

Maximum value of SAR (interpolated) = 13.3 W/kg

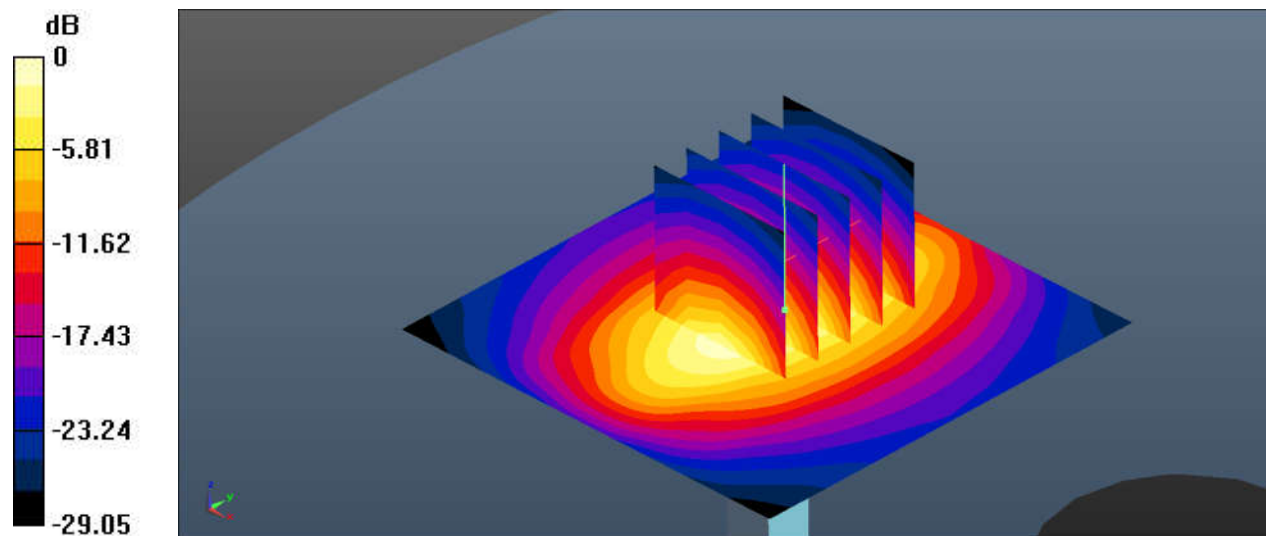
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 84.23 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.03 W/kg; SAR(10 g) = 4.72 W/kg

Maximum value of SAR (measured) = 13.1 W/kg



System Check_Head_1900MHz

DUT: D1900V2 - 5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.434$ S/m; $\epsilon_r = 40.047$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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

Maximum value of SAR (interpolated) = 12.5 W/kg

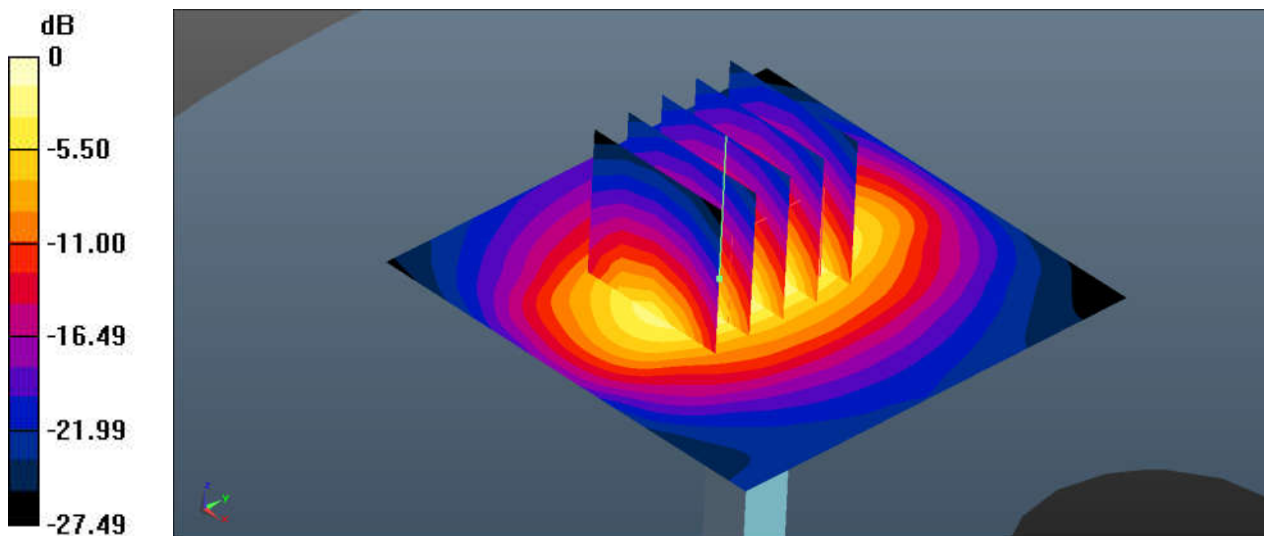
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.01 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.73 W/kg; SAR(10 g) = 5.16 W/kg

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

System Check_Head_2300MHz

DUT: D2300V2 - 1055

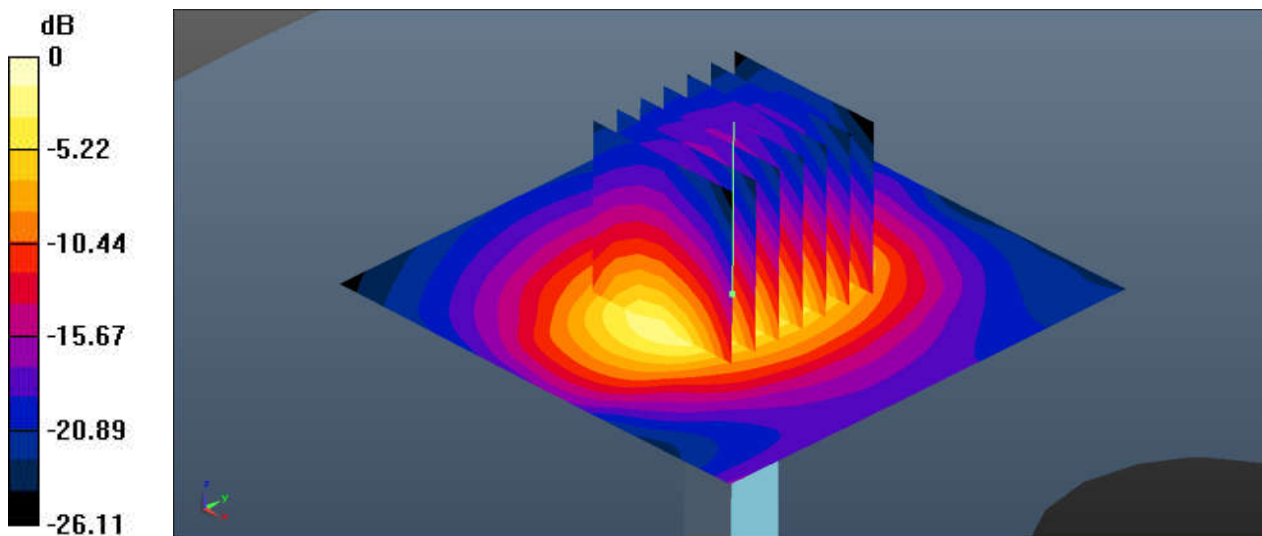
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: HSL_2300 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.677$ S/m; $\epsilon_r = 38.802$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.31, 7.31, 7.31); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 29.6 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 85.0 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 37.1 W/kg
SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.54 W/kg
Maximum value of SAR (measured) = 29.0 W/kg



0 dB = 29.6 W/kg = 14.71 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - 908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.195$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.53, 4.53, 4.53); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

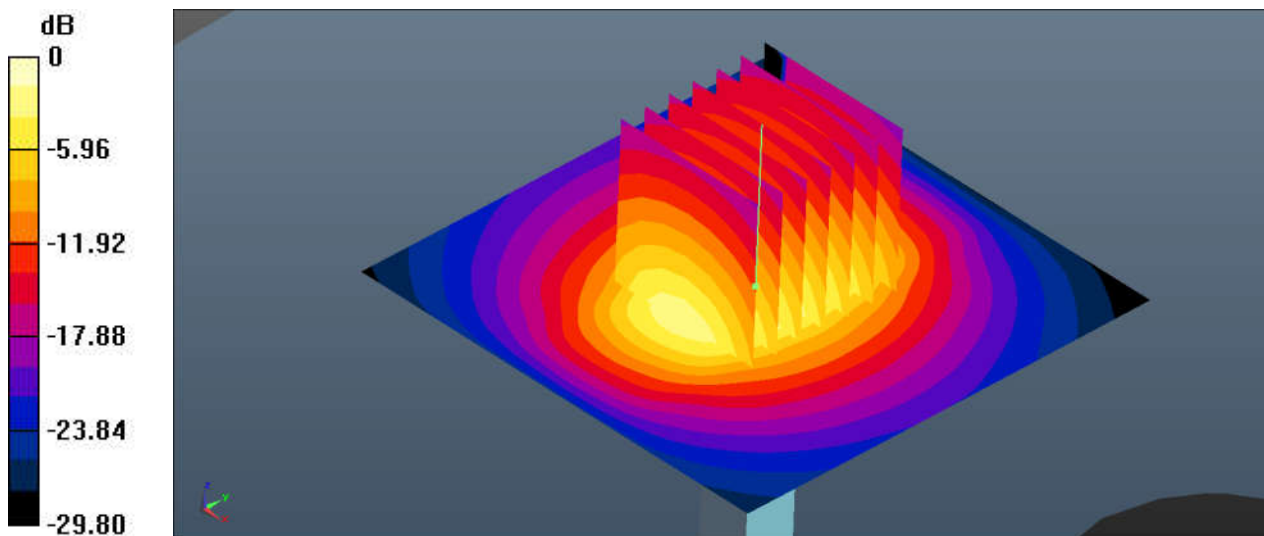
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.1 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.75 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 8.73 W/kg = 9.41 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2 - 1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 37.658$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3843; ConvF(6.86, 6.86, 6.86); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2018.12.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 34.4 W/kg

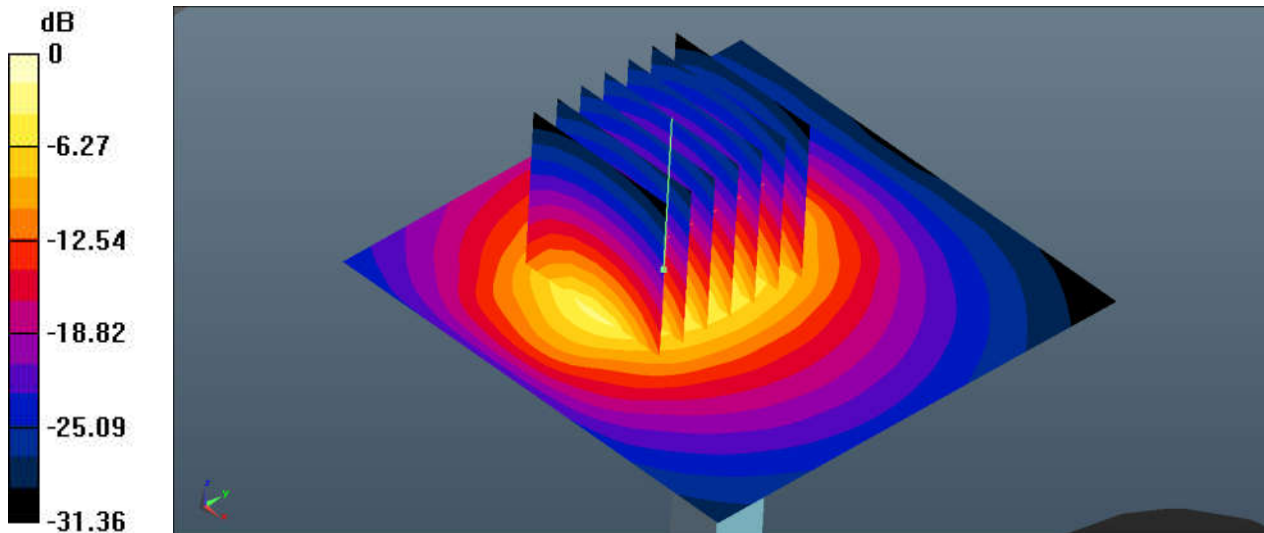
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.62 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 62.2 W/kg

SAR(1 g) = 15.1W/kg; SAR(10 g) = 6.7 W/kg

Maximum value of SAR (measured) = 34.4 W/kg



0 dB = 34.4 W/kg = 15.37 dBW/kg