| Conducted Power of LTE Band 7 (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bandwidth** | **Modulation** | **RB size** | **RB offset** | **Target MPR** | **Channel** | **Channel** | **Channel** |
| | | | | | **20775** | **21100** | **21425** |
| **5MHz** | QPSK | 1 | 0 | 0 | 24.01 | 23.38 | 22.34 |
| | | | 12 | 0 | **24.02** | 23.50 | 22.53 |
| | | | 24 | 0 | 23.78 | 23.36 | 22.48 |
| | | 12 | 0 | 1 | 22.92 | 22.43 | 21.35 |
| | | | 6 | 1 | 22.97 | 22.43 | 21.32 |
| | | | 13 | 1 | 22.79 | 22.36 | 21.40 |
| | | 25 | 0 | 1 | 22.86 | 22.41 | 21.40 |
| | 16QAM | 1 | 0 | 1 | 22.83 | 22.36 | 21.17 |
| | | | 12 | 1 | 22.85 | 22.51 | 21.38 |
| | | | 24 | 1 | 22.60 | 22.38 | 21.33 |
| | | 12 | 0 | 2 | 21.88 | 21.42 | 20.28 |
| | | | 6 | 2 | 21.90 | 21.42 | 20.26 |
| | | | 13 | 2 | 21.74 | 21.36 | 20.34 |
| | | 25 | 0 | 2 | 21.83 | 21.34 | 20.32 |
| **Bandwidth** | **Modulation** | **RB size** | **RB offset** | **Target MPR** | **Channel** | **Channel** | **Channel** |
| | | | | | **20800** | **21100** | **21400** |
| **10MHz** | QPSK | 1 | 0 | 0 | 24.00 | 23.58 | 22.32 |
| | | | 24 | 0 | 23.90 | 23.65 | 22.53 |
| | | | 49 | 0 | 23.78 | 23.51 | 22.49 |
| | | 25 | 0 | 1 | 22.94 | 22.53 | 21.34 |
| | | | 12 | 1 | 22.92 | 22.52 | 21.32 |
| | | | 25 | 1 | 22.80 | 22.47 | 21.46 |
| | | 50 | 0 | 1 | 22.87 | 22.50 | 21.40 |
| | 16QAM | 1 | 0 | 1 | 22.97 | 22.31 | 21.24 |
| | | | 24 | 1 | 22.86 | 22.33 | 21.48 |
| | | | 49 | 1 | 22.74 | 22.28 | 21.44 |
| | | 25 | 0 | 2 | 21.83 | 21.48 | 20.22 |
| | | | 12 | 2 | 21.88 | 21.51 | 20.21 |
| | | | 25 | 2 | 21.72 | 21.46 | 20.36 |
| | | 50 | 0 | 2 | 21.78 | 21.41 | 20.26 |

| Conducted Power of LTE Band 7 (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 20825 | 21100 | 21375 |
| 15MHz | QPSK | 1 | 0 | 0 | 23.90 | 23.47 | 22.29 |
| | | | 37 | 0 | 23.79 | 23.45 | 22.39 |
| | | | 74 | 0 | 23.71 | 23.32 | 22.38 |
| | | 37 | 0 | 1 | 22.82 | 22.55 | 21.23 |
| | | | 16 | 1 | 22.73 | 22.54 | 21.31 |
| | | | 35 | 1 | 22.70 | 22.43 | 21.32 |
| | | 75 | 0 | 1 | 22.94 | 22.59 | 21.44 |
| | 16QAM | 1 | 0 | 1 | 22.84 | 22.57 | 21.24 |
| | | | 37 | 1 | 22.74 | 22.50 | 21.34 |
| | | | 74 | 1 | 22.68 | 22.39 | 21.28 |
| | | 37 | 0 | 2 | 22.79 | 22.59 | 21.21 |
| | | | 16 | 2 | 22.74 | 22.51 | 21.33 |
| | | | 35 | 2 | 22.70 | 22.42 | 21.33 |
| | | 75 | 0 | 2 | 21.82 | 21.51 | 20.30 |
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 20850 | 21100 | 21350 |
| 20MHz | QPSK | 1 | 0 | 0 | 23.72 | 23.55 | 22.39 |
| | | | 49 | 0 | 23.81 | 23.61 | 22.54 |
| | | | 99 | 0 | 23.64 | 23.30 | 22.23 |
| | | 50 | 0 | 1 | 22.73 | 22.58 | 21.30 |
| | | | 25 | 1 | 22.77 | 22.57 | 21.35 |
| | | | 49 | 1 | 22.87 | 22.42 | 21.36 |
| | | 100 | 0 | 1 | 22.83 | 22.50 | 21.33 |
| | 16QAM | 1 | 0 | 1 | 22.52 | 22.59 | 21.24 |
| | | | 49 | 1 | 22.67 | 22.59 | 21.27 |
| | | | 99 | 1 | 22.48 | 22.39 | 21.06 |
| | | 50 | 0 | 2 | 21.71 | 21.55 | 20.28 |
| | | | 25 | 2 | 21.66 | 21.54 | 20.24 |
| | | | 49 | 2 | 21.82 | 21.33 | 20.29 |
| | | 100 | 0 | 2 | 21.78 | 21.46 | 20.28 |

| Conducted Power of LTE Band 12(dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23017 | 23095 | 23173 |
| 1.4MHz | QPSK | 1 | 0 | 0 | 23.21 | 22.75 | 23.37 |
| | | | 2 | 0 | 23.30 | 22.76 | 23.44 |
| | | | 5 | 0 | 23.21 | 22.53 | 23.32 |
| | | 3 | 0 | 0 | 23.28 | 22.65 | 23.44 |
| | | | 1 | 0 | 23.28 | 22.69 | 23.42 |
| | | | 2 | 0 | 23.31 | 22.60 | 23.40 |
| | | 6 | 0 | 1 | 22.22 | 21.64 | 22.37 |
| | 16QAM | 1 | 0 | 1 | 22.09 | 21.49 | 22.21 |
| | | | 2 | 1 | 22.26 | 21.47 | 22.34 |
| | | | 5 | 1 | 22.11 | 21.31 | 22.23 |
| | | 3 | 0 | 1 | 22.13 | 21.48 | 22.22 |
| | | | 1 | 1 | 22.09 | 21.50 | 22.21 |
| | | | 2 | 1 | 22.08 | 21.41 | 22.22 |
| | | 6 | 0 | 2 | 21.25 | 20.48 | 21.43 |
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23025 | 23095 | 23165 |
| 3MHz | QPSK | 1 | 0 | 0 | 23.43 | 22.90 | 22.13 |
| | | | 7 | 0 | 23.29 | 22.70 | 22.10 |
| | | | 14 | 0 | 23.35 | 22.47 | 22.06 |
| | | 8 | 0 | 1 | 22.27 | 21.73 | 21.05 |
| | | | 4 | 1 | 22.28 | 21.72 | 21.12 |
| | | | 7 | 1 | 22.30 | 21.45 | 21.06 |
| | | 15 | 0 | 1 | 22.25 | 21.59 | 21.04 |
| | 16QAM | 1 | 0 | 1 | 22.33 | 21.76 | 20.78 |
| | | | 7 | 1 | 22.34 | 21.45 | 20.84 |
| | | | 14 | 1 | 22.36 | 21.24 | 20.86 |
| | | 8 | 0 | 2 | 21.31 | 20.68 | 20.04 |
| | | | 4 | 2 | 21.31 | 20.71 | 20.06 |
| | | | 7 | 2 | 21.35 | 20.45 | 20.06 |
| | | 15 | 0 | 2 | 21.31 | 20.54 | 20.00 |

| Conducted Power of LTE Band 12(dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23035 | 23095 | 23155 |
| 5MHz | QPSK | 1 | 0 | 0 | 23.29 | 22.93 | 22.10 |
| | | | 12 | 0 | **23.46** | 22.61 | 22.12 |
| | | | 24 | 0 | 23.29 | 22.24 | 22.05 |
| | | 12 | 0 | 1 | 22.25 | 21.84 | 21.04 |
| | | | 6 | 1 | 22.22 | 21.81 | 21.03 |
| | | | 13 | 1 | 22.30 | 21.34 | 21.05 |
| | | 25 | 0 | 1 | 22.25 | 21.62 | 21.07 |
| | 16QAM | 1 | 0 | 1 | 22.18 | 21.99 | 20.92 |
| | | | 12 | 1 | 22.32 | 21.68 | 21.02 |
| | | | 24 | 1 | 22.13 | 21.29 | 20.88 |
| | | 12 | 0 | 2 | 21.25 | 20.86 | 20.06 |
| | | | 6 | 2 | 21.22 | 20.91 | 20.07 |
| | | | 13 | 2 | 21.36 | 20.39 | 20.10 |
| | | 25 | 0 | 2 | 21.34 | 20.58 | 20.13 |
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23060 | 23095 | 23130 |
| 10MHz | QPSK | 1 | 0 | 0 | 23.32 | 23.25 | 22.82 |
| | | | 25 | 0 | 23.40 | 22.82 | 22.43 |
| | | | 49 | 0 | 22.51 | 22.16 | 22.11 |
| | | 25 | 0 | 1 | 22.24 | 21.96 | 21.68 |
| | | | 13 | 1 | 22.24 | 21.97 | 21.69 |
| | | | 25 | 1 | 22.00 | 21.23 | 21.21 |
| | | 50 | 0 | 1 | 22.11 | 21.68 | 21.47 |
| | 16QAM | 1 | 0 | 1 | 22.07 | 22.24 | 21.64 |
| | | | 25 | 1 | 22.19 | 21.88 | 21.21 |
| | | | 49 | 1 | 21.22 | 21.14 | 20.91 |
| | | 25 | 0 | 2 | 21.32 | 20.99 | 20.72 |
| | | | 13 | 2 | 21.30 | 20.98 | 20.72 |
| | | | 25 | 2 | 21.03 | 20.26 | 20.25 |
| | | 50 | 0 | 2 | 21.13 | 20.65 | 20.54 |

| Conducted Power of LTE Band 17(dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23755 | 23790 | 23825 |
| 5MHz | QPSK | 1 | 0 | 0 | 23.03 | 22.49 | 22.05 |
| | | | 12 | 0 | 22.75 | 22.25 | 22.09 |
| | | | 24 | 0 | 22.33 | 21.94 | 21.98 |
| | | 12 | 0 | 1 | 21.94 | 21.41 | 20.90 |
| | | | 6 | 1 | 21.89 | 21.41 | 20.94 |
| | | | 13 | 1 | 21.51 | 21.00 | 21.04 |
| | | 25 | 0 | 1 | 21.69 | 21.22 | 21.00 |
| | 16QAM | 1 | 0 | 1 | 22.09 | 21.34 | 20.96 |
| | | | 12 | 1 | 21.83 | 21.11 | 20.99 |
| | | | 24 | 1 | 21.36 | 20.84 | 20.92 |
| | | 12 | 0 | 2 | 20.98 | 20.43 | 19.93 |
| | | | 6 | 2 | 20.98 | 20.44 | 19.99 |
| | | | 13 | 2 | 20.56 | 20.05 | 20.05 |
| | | 25 | 0 | 2 | 20.67 | 20.29 | 20.02 |
| Bandwidth | Modulation | RB size | RB offset | Target MPR | Channel | Channel | Channel |
| | | | | | 23780 | 23790 | 23800 |
| 10MHz | QPSK | 1 | 0 | 0 | **23.60** | 22.97 | 22.76 |
| | | | 24 | 0 | 22.50 | 22.32 | 22.19 |
| | | | 49 | 0 | 22.01 | 21.98 | 22.04 |
| | | 25 | 0 | 1 | 21.77 | 21.74 | 21.60 |
| | | | 12 | 1 | 21.81 | 21.72 | 21.61 |
| | | | 25 | 1 | 21.08 | 21.12 | 21.16 |
| | | 50 | 0 | 1 | 21.54 | 21.47 | 21.36 |
| | 16QAM | 1 | 0 | 1 | 22.08 | 21.74 | 21.47 |
| | | | 24 | 1 | 21.42 | 21.09 | 20.85 |
| | | | 49 | 1 | 21.01 | 20.82 | 20.75 |
| | | 25 | 0 | 2 | 20.78 | 20.76 | 20.64 |
| | | | 12 | 2 | 20.76 | 20.75 | 20.62 |
| | | | 25 | 2 | 20.08 | 20.13 | 20.19 |
| | | 50 | 0 | 2 | 20.50 | 20.47 | 20.37 |

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

**Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3**

| Modulation | Maximum Power Reduction (MPR) for Power[RB] | | | | | | MPR(dB) |
|---|---|---|---|---|---|---|---|
| | 1.4MHz | 3MHz | 5MHz | 10MHz | 15MHz | 20MHz | |
| QPSK | ＞5 | ＞4 | ＞8 | ＞12 | ＞16 | ＞18 | ≤1 |
| 16QAM | ≤5 | ≤4 | ≤8 | ≤12 | ≤16 | ≤18 | ≤1 |
| 16QAM | ＞5 | ＞4 | ＞8 | ＞12 | ＞16 | ＞18 | ≤2 |

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

**Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements**

| Network Signaling value | Requirements (sub-clause) | E-UTRA Band | Channel bandwidth (MHz) | Resources Blocks ($N_{RB}$) | A-MPR (dB) |
|---|---|---|---|---|---|
| NS_01 | 6.6.2.1.1 | Table 5.2-1 | 1.4,3,5,10,15,20 | Table 5.4.2-1 | N/A |
| NS_03 | 6.6.2.2.3.1 | 2,4,10, 23, 25,35,36 | 3 | >5 | ≤ 1 |
| | | | 5 | >6 | ≤ 1 |
| | | | 10 | >6 | ≤ 1 |
| | | | 15 | >8 | ≤ 1 |
| | | | 20 | >10 | ≤ 1 |
| NS_04 | 6.6.2.2.3.2 | 41 | 5 | >6 | ≤1 |
| | | | 10, 15, 20 | Table 6.2.4.3-4 | |
| NS_05 | 6.6.3.3.3.1 | 1 | 10,15,20 | ≥ 50 | ≤ 1 |
| NS_06 | 6.6.2.2.3.3 | 12, 13, 14, 17 | 1.4, 3, 5, 10 | Table 5.4.2-1 | N/A |
| NS_07 | 6.6.2.2.3.3<br>6.6.3.3.3.2 | 13 | 10 | Table 6.2.4.3-2 | Table 6.2.4.3-2 |
| NS_08 | 6.6.3.3.3.3 | 19 | 10, 15 | > 44 | ≤ 3 |
| NS_09 | 6.6.3.3.3.4 | 21 | 10, 15 | > 40 | ≤ 1 |
| | | | | > 55 | ≤ 2 |
| NS_10 | | 20 | 15, 20 | Table 6.2.4.3-3 | Table 6.2.4.3-3 |
| NS_11 | 6.6.2.2.1<br>6.6.3.3.13 | 231 | 1.4, 3, 5, 10,15,20 | Table 6.2.4.3-5 | Table 6.2.4.3-5 |
| NS_12 | 6.6.3.3.5 | 26 | 1.4, 3, 5 | Table 6.2.4.3-6 | Table 6.2.4.3-6 |
| NS_13 | 6.6.3.3.6 | 26 | 5 | Table 6.2.4.3-7 | Table 6.2.4.3-7 |
| NS_14 | 6.6.3.3.7 | 26 | 10, 15 | Table 6.2.4.3-8 | Table 6.2.4.3-8 |
| NS_15 | 6.6.3.3.8 | 26 | 1.4, 3, 5, 10, 15 | Table 6.2.4.3-9<br>Table 6.2.4.3-10 | Table 6.2.4.3-9,<br>Table 6.2.4.3-10 |
| NS_16 | 6.6.3.3.9 | 27 | 3, 5, 10 | Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13 | |
| NS_17 | 6.6.3.3.10<br>6.6.3.3.11 | 28<br>28 | 5, 10 | Table 5.4.2-1 | N/A |
| | | | 5 | ≥ 2 | ≤ 1 |
| NS_18 | | | 10, 15, 20 | ≥ 1 | ≤ 4 |
| NS_19 | | | 10, 15, 20 | Table 6.2.4.3-15 | Table 6.2.4.3-15 |
| NS_20 | | | 5, 10, 15, 20 | Table 6.2.4.3-14 | Table 6.2.4.3-14 |
| … | | | | | |
| NS_20 | - | - | - | - | - |

**WIFI**

| Mode | Data Rate (Mbps) | Channel | Frequency(MHz) | Avg. Burst Power(dBm) |
|---|---|---|---|---|
| 802.11b | 1 | 01 | 2412 | 15.94 |
| | | 06 | 2437 | **16.03** |
| | | 11 | 2462 | 16.00 |
| 802.11g | 6 | 01 | 2412 | 14.24 |
| | | 06 | 2437 | 14.41 |
| | | 11 | 2462 | 14.14 |
| 802.11n(20) | 6.5 | 01 | 2412 | 13.94 |
| | | 06 | 2437 | 14.14 |
| | | 11 | 2462 | 13.93 |
| 802.11n(40) | 13.5 | 03 | 2422 | 13.30 |
| | | 06 | 2437 | 13.62 |
| | | 09 | 2452 | 13.93 |

**Bluetooth_V4.2(BR/EDR)**

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|---|---|---|---|
| GFSK | 0 | 2402 | -1.604 |
| | 39 | 2441 | 1.141 |
| | 78 | 2480 | 3.290 |
| π /4-DQPSK | 0 | 2402 | -1.302 |
| | 39 | 2441 | 1.291 |
| | 78 | 2480 | 3.995 |
| 8-DPSK | 0 | 2402 | -1.389 |
| | 39 | 2441 | 1.313 |
| | 78 | 2480 | **4.043** |

**Bluetooth_V4.2(BLE)**

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|---|---|---|---|
| GFSK | 0 | 2402 | -2.938 |
| | 19 | 2440 | -2.046 |
| | 39 | 2480 | **-1.975** |

**5GHz WIFI**

| Mode | channel | Frequency | Power(dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Data Rate(bps) | | | | | | | |
| | | | 6M | 9M | 12M | 18M | 24M | 36M | 48M | 54M |
| 802.11a | 36 | 5180 | 12.78 | 12.63 | 12.54 | 12.47 | 12.32 | 12.29 | 12.11 | 12.02 |
| | 40 | 5200 | 11.83 | 11.70 | 11.57 | 11.51 | 11.40 | 11.35 | 11.14 | 11.10 |
| | 44 | 5220 | 11.59 | 11.49 | 11.35 | 11.24 | 11.17 | 11.02 | 10.91 | 10.84 |
| | 48 | 5240 | 11.22 | 11.10 | 10.92 | 10.88 | 10.78 | 10.65 | 10.59 | 10.45 |
| | 149 | 5745 | 12.36 | 12.27 | 12.16 | 12.00 | 11.92 | 11.82 | 11.69 | 11.64 |
| | 157 | 5785 | 11.72 | 11.62 | 11.53 | 11.35 | 11.26 | 11.24 | 11.04 | 10.98 |
| | 165 | 5825 | 9.44 | 9.28 | 9.26 | 9.11 | 8.97 | 8.85 | 8.79 | 8.68 |
| | | | **MCS0** | **MCS1** | **MCS2** | **MCS3** | **MCS4** | **MCS5** | **MCS6** | **MCS7** |
| 802.11n (20) | 36 | 5180 | 11.71 | 11.56 | 11.49 | 11.40 | 11.28 | 11.16 | 11.04 | 10.95 |
| | 40 | 5200 | 10.98 | 10.85 | 10.72 | 10.66 | 10.56 | 10.46 | 10.25 | 10.25 |
| | 44 | 5220 | 10.74 | 10.64 | 10.46 | 10.39 | 10.35 | 10.17 | 10.04 | 9.99 |
| | 48 | 5240 | 10.36 | 10.24 | 10.09 | 10.02 | 9.99 | 9.83 | 9.72 | 9.59 |
| | 149 | 5745 | 11.48 | 11.39 | 11.25 | 11.12 | 11.04 | 10.93 | 10.81 | 10.76 |
| | 157 | 5785 | 11.02 | 10.92 | 10.80 | 10.65 | 10.56 | 10.50 | 10.34 | 10.28 |
| | 165 | 5825 | 8.50 | 8.34 | 8.26 | 8.17 | 8.03 | 7.91 | 7.85 | 7.74 |
| | | | **MCS0** | **MCS1** | **MCS2** | **MCS3** | **MCS4** | **MCS5** | **MCS6** | **MCS7** |
| 802.11n (40) | 38 | 5190 | 11.73 | 11.58 | 11.54 | 11.42 | 11.27 | 11.16 | 11.06 | 10.97 |
| | 46 | 5230 | 10.81 | 10.68 | 10.51 | 10.49 | 10.38 | 10.23 | 10.12 | 10.08 |
| | 151 | 5755 | **15.07** | 14.97 | 14.75 | 14.72 | 14.65 | 14.58 | 14.39 | 14.32 |
| | 159 | 5795 | 14.13 | 14.01 | 13.82 | 13.79 | 13.69 | 13.65 | 13.50 | 13.36 |
| | | | **MCS0** | **MCS1** | **MCS2** | **MCS3** | **MCS4** | **MCS5** | **MCS6** | **MCS7** |
| 802.11ac (20) | 36 | 5180 | 11.82 | 11.67 | 11.60 | 11.51 | 11.34 | 11.27 | 11.15 | 11.04 |
| | 40 | 5200 | 11.18 | 11.05 | 10.92 | 10.86 | 10.75 | 10.66 | 10.49 | 10.45 |
| | 44 | 5220 | 10.84 | 10.74 | 10.56 | 10.49 | 10.44 | 10.27 | 10.16 | 10.08 |
| | 48 | 5240 | 10.27 | 10.15 | 10.00 | 9.93 | 9.83 | 9.74 | 9.64 | 9.52 |
| | 149 | 5745 | 11.49 | 11.40 | 11.26 | 11.13 | 11.05 | 10.94 | 10.82 | 10.79 |
| | 157 | 5785 | 10.98 | 10.88 | 10.76 | 10.61 | 10.52 | 10.46 | 10.30 | 10.24 |
| | 165 | 5825 | 8.45 | 8.29 | 8.21 | 8.12 | 7.98 | 7.86 | 7.80 | 7.69 |
| | | | **MCS0** | **MCS1** | **MCS2** | **MCS3** | **MCS4** | **MCS5** | **MCS6** | **MCS7** |
| 802.11ac (40) | 38 | 5190 | 13.28 | 13.13 | 13.06 | 12.97 | 12.82 | 12.76 | 12.61 | 12.57 |
| | 46 | 5230 | 12.20 | 12.07 | 11.94 | 11.88 | 11.77 | 11.63 | 11.51 | 11.45 |
| | 151 | 5755 | 12.96 | 12.86 | 12.68 | 12.61 | 12.54 | 12.38 | 12.28 | 12.28 |
| | 159 | 5795 | 12.05 | 11.93 | 11.78 | 11.71 | 11.61 | 11.55 | 11.42 | 11.22 |
| | | | **MCS0** | **MCS1** | **MCS2** | **MCS3** | **MCS4** | **MCS5** | **MCS6** | **MCS7** |
| 802.11ac (80) | 42 | 5210 | 10.26 | 10.16 | 10.04 | 9.94 | 9.80 | 9.71 | 9.59 | 9.50 |
| | 155 | 5775 | 13.03 | 12.93 | 12.77 | 12.72 | 12.60 | 12.51 | 12.34 | 12.30 |

# 13. TEST RESULTS

## 13.1. SAR Test Results Summary

### 13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 5mm from the phantom.

### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. 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 ≤1.2W/kg.
5. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw) ]
7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
9. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. Per KDB 941125 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 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.

11. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
12. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r03, smaller bandwidth SAR testing is not required.

### 13.1.3. Test Result

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 51.8 | | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode: GSM850 with GMSK modulation | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| **SIM 1 Card** | | | | | | | | | |
| Body back | voice | 190 | 836.6 | -0.19 | 0.700 | 31.40 | 30.93 | 0.780 | 1.6 |
| Body front | voice | 190 | 836.6 | -0.01 | 0.522 | 31.40 | 30.93 | 0.582 | 1.6 |
| | | | | | | | | | |
| Body back | GPRS-2 slot | 128 | 824.2 | -0.07 | 0.658 | 30.70 | 30.46 | 0.695 | 1.6 |
| Body back | GPRS-2 slot | 190 | 836.6 | -0.17 | 0.831 | 30.70 | 30.22 | **0.928** | 1.6 |
| Body back | GPRS-2 slot | 251 | 848.8 | -0.10 | **0.860** | 30.70 | 30.64 | 0.872 | 1.6 |
| Body front | GPRS-2 slot | 190 | 836.6 | -0.01 | 0.522 | 30.70 | 30.22 | 0.583 | 1.6 |
| Edge 1 (Top) | GPRS-2 slot | 190 | 836.6 | 0.12 | 0.212 | 30.70 | 30.22 | 0.237 | 1.6 |
| Edge 2(Right) | GPRS-2 slot | 190 | 836.6 | -0.11 | 0.185 | 30.70 | 30.22 | 0.207 | 1.6 |
| Edge 4(Left) | GPRS-2 slot | 190 | 836.6 | -0.12 | 0.290 | 30.70 | 30.22 | 0.324 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 51.8 | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode: PCS1900 with GMSK modulation | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| **SIM 1 Card** | | | | | | | | | |
| Body back | voice | 661 | 1880.0 | 0.05 | 0.239 | 28.20 | 28.17 | 0.241 | 1.6 |
| Body front | voice | 661 | 1880.0 | 0.03 | 0.182 | 28.20 | 28.17 | 0.183 | 1.6 |
| | | | | | | | | | |
| Body back | GPRS-2 slot | 512 | 1850.2 | 0.17 | 0.793 | 26.90 | 26.78 | 0.815 | 1.6 |
| Body back | GPRS-2 slot | 661 | 1880.0 | -0.03 | **0.901** | 26.90 | 26.85 | **0.911** | 1.6 |
| Body back | GPRS-2 slot | 810 | 1909.8 | 0.11 | 0.874 | 26.90 | 26.79 | 0.896 | 1.6 |
| Body front | GPRS-2 slot | 661 | 1880.0 | -0.15 | 0.656 | 26.90 | 26.85 | 0.664 | 1.6 |
| Edge 1 (Top) | GPRS-2 slot | 661 | 1880.0 | -0.03 | 0.314 | 26.90 | 26.85 | 0.318 | 1.6 |
| Edge 2(Right) | GPRS-2 slot | 661 | 1880.0 | 0.13 | 0.082 | 26.90 | 26.85 | 0.083 | 1.6 |
| Edge 4(Left) | GPRS-2 slot | 661 | 1880.0 | 0.03 | 0.176 | 26.90 | 26.85 | 0.178 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 51.8 | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode: WCDMA Band II with QPSK modulation | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | RMC 12.2kbps | 9400 | 1880 | 0.02 | 0.707 | 21.80 | 21.77 | 0.712 | 1.6 |
| Body front | RMC 12.2kbps | 9400 | 1880 | 0.14 | 0.687 | 21.80 | 21.77 | 0.692 | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 9262 | 1852.4 | 0.10 | **1.270** | 21.80 | 21.67 | **1.309** | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 9400 | 1880 | 0.02 | 1.200 | 21.80 | 21.77 | 1.208 | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 9538 | 1907.6 | -0.13 | 1.230 | 21.80 | 21.58 | 1.294 | 1.6 |
| Edge 2(Right) | RMC 12.2kbps | 9400 | 1880 | 0.18 | 0.279 | 21.80 | 21.77 | 0.281 | 1.6 |
| Edge 4(Left) | RMC 12.2kbps | 9400 | 1880 | -0.18 | 0.615 | 21.80 | 21.77 | 0.619 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 54.3 | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode: WCDMA Band IV with QPSK modulation | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | RMC 12.2kbps | 8662 | 1732.4 | -0.05 | 0.591 | 23.80 | 23.19 | 0.680 | 1.6 |
| Body front | RMC 12.2kbps | 8662 | 1732.4 | -0.10 | 0.409 | 23.80 | 23.19 | 0.471 | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 8562 | 1712.4 | 0.04 | 1.060 | 23.80 | 23.80 | 1.060 | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 8662 | 1732.4 | 0.17 | **1.110** | 23.80 | 23.19 | **1.277** | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 8763 | 1752.6 | 0.13 | 1.050 | 23.80 | 22.97 | 1.271 | 1.6 |
| Edge 2(Right) | RMC 12.2kbps | 8662 | 1732.4 | 0.11 | 0.165 | 23.80 | 23.19 | 0.190 | 1.6 |
| Edge 4(Left) | RMC 12.2kbps | 8662 | 1732.4 | -0.10 | 0.667 | 23.80 | 23.19 | 0.768 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 51.8 | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode: WCDMA Band V with QPSK modulation | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | RMC 12.2kbps | 4183 | 836.6 | 0.07 | **0.525** | 23.20 | 23.10 | **0.537** | 1.6 |
| Body front | RMC 12.2kbps | 4183 | 836.6 | -0.06 | 0.415 | 23.20 | 23.10 | 0.425 | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 4183 | 836.6 | 0.13 | 0.136 | 23.20 | 23.10 | 0.139 | 1.6 |
| Edge 2(Right) | RMC 12.2kbps | 4183 | 836.6 | 0.07 | 0.152 | 23.20 | 23.10 | 0.156 | 1.6 |
| Edge 4(Left) | RMC 12.2kbps | 4183 | 836.6 | 0.02 | 0.236 | 23.20 | 23.10 | 0.241 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | | Relative Humidity (%): 49.8 | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 2 | | | | | | | | | | | | |
| BM MHz | MOD | Position | Test Mode | | Ch. | Freq. (MHz) | Power Drift (<±0.2 dB) | SAR (1g) (W/kg) | Max. Tune up Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/kg) | Limit (W/kg) |
| | | | UL RB Allocation | UL RB Allocation | | | | | | | | |
| 20 | QPSK | Body back | 1 | 0 | 18900 | 1880 | 0.14 | 0.540 | 23.10 | 22.06 | 0.686 | 1.6 |
| | | Body front | 1 | 0 | 18900 | 1880 | -0.06 | 0.489 | 23.10 | 22.06 | 0.621 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 18900 | 1880 | -0.10 | **0.604** | 23.10 | 22.06 | **0.767** | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 18900 | 1880 | 0.12 | 0.145 | 23.10 | 22.06 | 0.184 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 18900 | 1880 | 0.19 | 0.389 | 23.10 | 22.06 | 0.494 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 54.3 | | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 4 | | | | | | | | | | | | |
| BM MHz | MOD | Position | Test Mode | | Ch. | Freq. (MHz) | Power Drift (<±0.2 dB) | SAR (1g) (W/kg) | Max. Tuneup Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/kg) | Limit (W/kg) |
| | | | UL RB Allocation | UL RB START | | | | | | | | |
| 20 | QPSK | Body back | 1 | 0 | 20175 | 1732.5 | 0.15 | **0.644** | 23.30 | 23.03 | **0.685** | 1.6 |
| | | Body front | 1 | 0 | 20175 | 1732.5 | 0.07 | 0.472 | 23.30 | 23.03 | 0.502 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 20175 | 1732.5 | -0.10 | 0.528 | 23.30 | 23.03 | 0.562 | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 20175 | 1732.5 | -0.19 | 0.180 | 23.30 | 23.03 | 0.192 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 20175 | 1732.5 | 0.07 | 0.407 | 23.30 | 23.03 | 0.433 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | | Relative Humidity (%): 47.3 | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 5 | | | | | | | | | | | | |
| BM MHz | MOD | Position | Test Mode | | Ch. | Freq. (MHz) | Power Drift (<±0.2 dB) | SAR (1g) (W/kg) | Max. Tuneup Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/kg) | Limit (W/kg) |
| | | | UL RB Allocation | UL RB START | | | | | | | | |
| 10 | QPSK | Body back | 1 | 0 | 20525 | 836.5 | -0.02 | **0.460** | 23.40 | 22.77 | **0.532** | 1.6 |
| | | Body front | 1 | 0 | 20525 | 836.5 | -0.07 | 0.411 | 23.40 | 22.77 | 0.475 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 20525 | 836.5 | 0.19 | 0.154 | 23.40 | 22.77 | 0.178 | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 20525 | 836.5 | -0.04 | 0.128 | 23.40 | 22.77 | 0.148 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 20525 | 836.5 | 0.09 | 0.180 | 23.40 | 22.77 | 0.208 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 52.4 | | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 7 | | | | | | | | | | | | |
| BM MHz | MOD | Position | Test Mode | | Ch. | Freq. (MHz) | Power Drift (<±0.2 dB) | SAR (1g) (W/kg) | Max. Tuneup Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/kg) | Limit (W/kg) |
| | | | UL RB Allocation | UL RB START | | | | | | | | |
| 20 | QPSK | Body back | 1 | 0 | 21100 | 2535 | 0.05 | 0.580 | 23.80 | 23.55 | 0.614 | 1.6 |
| | | Body front | 1 | 0 | 21100 | 2535 | -0.13 | 0.408 | 23.80 | 23.55 | 0.432 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 20850 | 2510 | -0.09 | **1.290** | 23.80 | 23.72 | **1.314** | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 21100 | 2535 | -0.19 | 1.150 | 23.80 | 23.55 | 1.218 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 21350 | 2560 | -0.14 | 1.020 | 22.40 | 22.39 | 1.022 | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 21100 | 2535 | -0.12 | 0.200 | 23.80 | 23.55 | 0.212 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 21100 | 2535 | -0.05 | 0.170 | 23.80 | 23.55 | 0.180 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 50.6 | | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 12 | | | | | | | | | | | | |
| BM MHz | MOD | Position | Test Mode | | Ch. | Freq. (MHz) | Power Drift (<±0.2 dB) | SAR (1g) (W/kg) | Max. Tuneup Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/kg) | Limit (W/kg) |
| | | | UL RB Allocation | UL RB START | | | | | | | | |
| 10 | QPSK | Body back | 1 | 0 | 23095 | 707.5 | 0.01 | **0.090** | 23.50 | 23.25 | **0.095** | 1.6 |
| | | Body front | 1 | 0 | 23095 | 707.5 | 0.14 | 0.038 | 23.50 | 23.25 | 0.040 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 23095 | 707.5 | 0.13 | 0.073 | 23.50 | 23.25 | 0.077 | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 23095 | 707.5 | 0.09 | 0.020 | 23.50 | 23.25 | 0.021 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 23095 | 707.5 | 0.12 | 0.023 | 23.50 | 23.25 | 0.024 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | | Relative Humidity (%): 50.6 | | | | | | | |
| Product: Brama S-C | | | | | | | | | | | | |
| Test Mode: LTE Band 17 | | | | | | | | | | | | |
| **BM MHz** | **MOD** | **Position** | **Test Mode** | | **Ch.** | **Freq. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tuneup Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| | | | **UL RB Allocation** | **UL RB START** | | | | | | | | |
| **10** | **QPSK** | Body back | 1 | 0 | 23790 | 710 | 0.17 | **0.086** | 23.60 | 22.97 | **0.099** | 1.6 |
| | | Body front | 1 | 0 | 23790 | 710 | 0.08 | 0.043 | 23.60 | 22.97 | 0.050 | 1.6 |
| | | Edge 1 (Top) | 1 | 0 | 23790 | 710 | 0.10 | 0.071 | 23.60 | 22.97 | 0.082 | 1.6 |
| | | Edge 2(Right) | 1 | 0 | 23790 | 710 | 0.18 | 0.021 | 23.60 | 22.97 | 0.024 | 1.6 |
| | | Edge 4(Left) | 1 | 0 | 23790 | 710 | 0.01 | 0.024 | 23.60 | 22.97 | 0.028 | 1.6 |

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 57.2 | | | | | |
| Product: Brama S-C | | | | | | | | | |
| Test Mode:802.11b | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2 dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | DTS | 6 | 2437 | 0.03 | 0.053 | 16.10 | 16.03 | 0.054 | 1.6 |
| Body front | DTS | 6 | 2437 | 0.19 | 0.040 | 16.10 | 16.03 | 0.041 | 1.6 |
| Edge3(Bottom) | DTS | 6 | 2437 | 0.19 | 0.024 | 16.10 | 16.03 | 0.024 | 1.6 |
| Edge4(Left) | DTS | 6 | 2437 | -0.01 | **0.162** | 16.10 | 16.03 | **0.165** | 1.6 |

Note:
- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above “DTS” means data transmitters.
- The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 45.6 | | | | |
| Product: Brama S-C | | | | | | | | |
| Test Mode: 5.2GHz WIFI-802.11a | | | | | | | | |
| **Position** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | 40 | 5200 | 0.01 | 0.069 | 12.80 | 11.83 | 0.086 | 1.6 |
| Body front | 40 | 5200 | -0.18 | **0.247** | 12.80 | 11.83 | **0.309** | 1.6 |
| Edge3(Bottom) | 40 | 5200 | -0.02 | 0.155 | 12.80 | 11.83 | 0.194 | 1.6 |
| Edge4(Left) | 40 | 5200 | -0.15 | 0.231 | 12.80 | 11.83 | 0.289 | 1.6 |

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 5mm of all above table.

| SAR MEASUREMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 47.1 | | | | | |
| Product: Brama S-C | | | | | | | | |
| Test Mode: 5.8GHz WIFI-802.11a | | | | | | | | |
| **Position** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±0.2dB)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit (W/kg)** |
| Body back | 157 | 5785 | 0.08 | 0.044 | 12.40 | 11.72 | 0.051 | 1.6 |
| Body front | 157 | 5785 | -0.01 | 0.207 | 12.40 | 11.72 | 0.242 | 1.6 |
| Edge3(Bottom) | 157 | 5785 | -0.13 | **0.331** | 12.40 | 11.72 | **0.387** | 1.6 |
| Edge4(Left) | 157 | 5785 | -0.18 | 0.307 | 12.40 | 11.72 | 0.359 | 1.6 |

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 5mm of all above table.

| Repeated SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product: Brama S-C | | | | | | | | | | |
| Test Mode: GSM850& PCS1900& WCDMA Band II & WCDMA Band IV & LTE Band 7 | | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±5%)** | **Once SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Twice SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Third SAR (1g) (W/kg)** | **Limit W/kg** |
| Body back | GPRS-2 slot | 251 | 848.8 | -0.17 | **0.831** | -- | -- | -- | -- | 1.6 |
| Body back | GPRS-2 slot | 661 | 1880.0 | 0.04 | **0.866** | -- | -- | -- | -- | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 9262 | 1852.4 | 0.06 | **1.18** | -- | -- | -- | -- | 1.6 |
| Edge 1 (Top) | RMC 12.2kbps | 8662 | 1732.4 | -0.13 | **1.03** | -- | -- | -- | -- | 1.6 |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±5%)** | **Once SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Twice SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Third SAR (1g) (W/kg)** | **Limit W/kg** |
| | **UL RB Allocation** / **UL RB START** | | | | | | | | | |
| Edge 1 (Top) | 1 / 0 | 20850 | 2510 | -0.18 | **1.14** | -- | -- | -- | -- | 1.6 |

| The second repeated SAR judge reference | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Product: Brama S-C | | | | | | | | |
| **Band** | **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Orignal SAR (1g) (W/kg)** | **First SAR (1g) (W/kg)** | **Ratio** | **Limit** |
| WCDMA Band II | Edge 1 (Top) | RMC 12.2kbps | 9262 | 1852.4 | 1.27 | 1.18 | 1.076 | ＜1.2 |
| **Band** | **Position** | **Mode** (**UL RB Allocation** / **UL RB START**) | **Ch.** | **Fr. (MHz)** | **Orignal SAR (1g) (W/kg)** | **First SAR (1g) (W/kg)** | **Ratio** | **Limit** |
| LTE Band 7 | Edge 1 (Top) | 1 / 0 | 20850 | 2510 | 1.29 | 1.14 | 1.132 | ＜1.2 |

## Simultaneous Multi-band Transmission Evaluation:

**Application Simultaneous Transmission information:**

| NO | Simultaneous state | Portable Handset |
|---|---|---|
| | | Body-worn |
| 1 | GSM(voice)+ WLAN 2.4GHz&5GHz (data) | Yes |
| 2 | GSM(voice)+ Bluetooth(data) | Yes |
| 3 | GSM (Data) + WLAN 2.4GHz &5GHz (data) | Yes |
| 4 | GSM (Data) + Bluetooth(data) | Yes |
| 5 | WCDMA+ WLAN 2.4GHz &5GHz (data) | Yes |
| 6 | WCDMA+ Bluetooth(data) | Yes |
| 7 | LTE + WLAN 2.4GHz&5GHz (data) | Yes |
| 8 | LTE + Bluetooth(data) | Yes |

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 5mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - The result is rounded to one decimal place for comparison
   - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

   The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
   (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
   (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
   (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
   (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

| Estimated SAR | | Max Power including Tune-up Tolerance | | Separation Distance (mm) | Estimated SAR (W/kg) |
|---|---|---|---|---|---|
| | | dBm | mW | | |
| **BT** | Body | 5 | 3.16 | 5 | 0.133 |

**Sum of the SAR for GSM 850 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | GSM 850 | 2.4GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.780 | 0.054 | | 0.834 | No |
| | | 0.780 | | 0.133 | 0.913 | No |
| | Front | 0.582 | 0.041 | | 0.623 | No |
| | | 0.582 | | 0.133 | 0.715 | No |
| Body-worn (Data) | Rear | 0.928 | | 0.133 | 1.061 | No |
| | | 0.928 | 0.054 | | 0.982 | No |
| | Front | 0.583 | | 0.133 | 0.716 | No |
| | | 0.583 | 0.041 | | 0.624 | No |
| | Edge 4 | 0.324 | 0.165 | | 0.489 | No |
| | Edge 4 | 0.324 | | 0.133 | 0.457 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for GSM 1900 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | PCS 1900 | 2.4GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.241 | 0.054 | | 0.295 | No |
| | | 0.241 | | 0.133 | 0.374 | No |
| | Front | 0.183 | 0.041 | | 0.224 | No |
| | | 0.183 | | 0.133 | 0.316 | No |
| Body-worn (Data) | Rear | 0.911 | | 0.133 | 1.044 | No |
| | | 0.911 | 0.054 | | 0.965 | No |
| | Front | 0.664 | | 0.133 | 0.797 | No |
| | | 0.664 | 0.041 | | 0.705 | No |
| | Edge 4 | 0.178 | 0.165 | | 0.343 | No |
| | Edge 4 | 0.178 | | 0.133 | 0.311 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band II &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band II | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.712 | 0.054 | | 0.766 | No |
| | Front | 0.692 | 0.041 | | 0.733 | No |
| | Edge 4 | 0.619 | 0.165 | | 0.784 | No |
| | Rear | 0.712 | | 0.133 | 0.845 | No |
| | Front | 0.692 | | 0.133 | 0.825 | No |
| | Edge 4 | 0.619 | | 0.133 | 0.752 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band IV &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band IV | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.680 | 0.054 | | 0.734 | No |
| | Front | 0.471 | 0.041 | | 0.512 | No |
| | Edge 4 | 0.768 | 0.165 | | 0.933 | No |
| | Rear | 0.680 | | 0.133 | 0.813 | No |
| | Front | 0.471 | | 0.133 | 0.604 | No |
| | Edge 4 | 0.768 | | 0.133 | 0.901 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band V &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band V | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.537 | 0.054 | | 0.591 | No |
| | Front | 0.425 | 0.041 | | 0.466 | No |
| | Edge 4 | 0.241 | 0.165 | | 0.406 | No |
| | Rear | 0.537 | | 0.133 | 0.670 | No |
| | Front | 0.425 | | 0.133 | 0.558 | No |
| | Edge 4 | 0.241 | | 0.133 | 0.374 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 2 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 2 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.686 | 0.054 | | 0.740 | No |
| | Front | 0.621 | 0.041 | | 0.662 | No |
| | Edge 4 | 0.494 | 0.165 | | 0.659 | No |
| | Rear | 0.686 | | 0.133 | 0.819 | No |
| | Front | 0.621 | | 0.133 | 0.754 | No |
| | Edge 4 | 0.494 | | 0.133 | 0.627 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 4 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 4 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.685 | 0.054 | | 0.739 | No |
| | Front | 0.502 | 0.041 | | 0.543 | No |
| | Edge 4 | 0.433 | 0.165 | | 0.598 | No |
| | Rear | 0.685 | | 0.133 | 0.818 | No |
| | Front | 0.502 | | 0.133 | 0.635 | No |
| | Edge 4 | 0.433 | | 0.133 | 0.566 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 5 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 5 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.532 | 0.054 | | 0.586 | No |
| | Front | 0.475 | 0.041 | | 0.516 | No |
| | Edge 4 | 0.208 | 0.165 | | 0.373 | No |
| | Rear | 0.532 | | 0.133 | 0.665 | No |
| | Front | 0.475 | | 0.133 | 0.608 | No |
| | Edge 4 | 0.208 | | 0.133 | 0.341 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 7 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 7 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.614 | 0.054 | | 0.668 | No |
| | Front | 0.432 | 0.041 | | 0.473 | No |
| | Edge 4 | 0.180 | 0.165 | | 0.345 | No |
| | Rear | 0.614 | | 0.133 | 0.747 | No |
| | Front | 0.432 | | 0.133 | 0.565 | No |
| | Edge 4 | 0.180 | | 0.133 | 0.313 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 12 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 12 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.095 | 0.054 | | 0.149 | No |
| | Front | 0.040 | 0.041 | | 0.081 | No |
| | Edge 4 | 0.024 | 0.165 | | 0.189 | No |
| | Rear | 0.095 | | 0.133 | 0.228 | No |
| | Front | 0.040 | | 0.133 | 0.173 | No |
| | Edge 4 | 0.024 | | 0.133 | 0.157 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 17 &2.4GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 17 | 2.4GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.099 | 0.054 | | 0.153 | No |
| | Front | 0.050 | 0.041 | | 0.091 | No |
| | Edge 4 | 0.028 | 0.165 | | 0.193 | No |
| | Rear | 0.099 | | 0.133 | 0.232 | No |
| | Front | 0.050 | | 0.133 | 0.183 | No |
| | Edge 4 | 0.028 | | 0.133 | 0.161 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for GSM 850 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | GSM 850 | 5.2GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.780 | 0.086 | | 0.866 | No |
| | | 0.780 | | 0.133 | 0.913 | No |
| | Front | 0.582 | 0.309 | | 0.891 | No |
| | | 0.582 | | 0.133 | 0.715 | No |
| Body-worn (Data) | Rear | 0.928 | | 0.133 | 1.061 | No |
| | | 0.928 | 0.086 | | 1.014 | No |
| | Front | 0.583 | | 0.133 | 0.716 | No |
| | | 0.583 | 0.309 | | 0.892 | No |
| | Edge 4 | 0.324 | 0.289 | | 0.613 | No |
| | Edge 4 | 0.324 | | 0.133 | 0.457 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for GSM 1900 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | PCS 1900 | 5.2GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.241 | 0.086 | | 0.327 | No |
| | | 0.241 | | 0.133 | 0.374 | No |
| | Front | 0.183 | 0.309 | | 0.492 | No |
| | | 0.183 | | 0.133 | 0.316 | No |
| Body-worn (Data) | Rear | 0.911 | | 0.133 | 1.044 | No |
| | | 0.911 | 0.086 | | 0.997 | No |
| | Front | 0.664 | | 0.133 | 0.797 | No |
| | | 0.664 | 0.309 | | 0.973 | No |
| | Edge 4 | 0.178 | 0.289 | | 0.467 | No |
| | Edge 4 | 0.178 | | 0.133 | 0.311 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for WCDMA Band II &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band II | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.712 | 0.086 | | 0.798 | No |
| | Front | 0.692 | 0.309 | | 1.001 | No |
| | Edge 4 | 0.619 | 0.289 | | 0.908 | No |
| | Rear | 0.712 | | 0.133 | 0.845 | No |
| | Front | 0.692 | | 0.133 | 0.825 | No |
| | Edge 4 | 0.619 | | 0.133 | 0.752 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for WCDMA Band IV &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band IV | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.680 | 0.086 | | 0.766 | No |
| | Front | 0.471 | 0.309 | | 0.780 | No |
| | Edge 4 | 0.768 | 0.289 | | 1.057 | No |
| | Rear | 0.680 | | 0.133 | 0.813 | No |
| | Front | 0.471 | | 0.133 | 0.604 | No |
| | Edge 4 | 0.768 | | 0.133 | 0.901 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band V &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band V | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.537 | 0.086 | | 0.623 | No |
| | Front | 0.425 | 0.309 | | 0.734 | No |
| | Edge 4 | 0.241 | 0.289 | | 0.530 | No |
| | Rear | 0.537 | | 0.133 | 0.670 | No |
| | Front | 0.425 | | 0.133 | 0.558 | No |
| | Edge 4 | 0.241 | | 0.133 | 0.374 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 2 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 2 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.686 | 0.086 | | 0.772 | No |
| | Front | 0.621 | 0.309 | | 0.930 | No |
| | Edge 4 | 0.494 | 0.289 | | 0.783 | No |
| | Rear | 0.686 | | 0.133 | 0.819 | No |
| | Front | 0.621 | | 0.133 | 0.754 | No |
| | Edge 4 | 0.494 | | 0.133 | 0.627 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 4 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 4 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.685 | 0.086 | | 0.771 | No |
| | Front | 0.502 | 0.309 | | 0.811 | No |
| | Edge 4 | 0.433 | 0.289 | | 0.722 | No |
| | Rear | 0.685 | | 0.133 | 0.818 | No |
| | Front | 0.502 | | 0.133 | 0.635 | No |
| | Edge 4 | 0.433 | | 0.133 | 0.566 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 5 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 5 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.532 | 0.086 | | 0.618 | No |
| | Front | 0.475 | 0.309 | | 0.784 | No |
| | Edge 4 | 0.208 | 0.289 | | 0.497 | No |
| | Rear | 0.532 | | 0.133 | 0.665 | No |
| | Front | 0.475 | | 0.133 | 0.608 | No |
| | Edge 4 | 0.208 | | 0.133 | 0.341 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 7 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 7 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.614 | 0.086 | | 0.700 | No |
| | Front | 0.432 | 0.309 | | 0.741 | No |
| | Edge 4 | 0.180 | 0.289 | | 0.469 | No |
| | Rear | 0.614 | | 0.133 | 0.747 | No |
| | Front | 0.432 | | 0.133 | 0.565 | No |
| | Edge 4 | 0.180 | | 0.133 | 0.313 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 12 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 12 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.095 | 0.086 | | 0.181 | No |
| | Front | 0.040 | 0.309 | | 0.349 | No |
| | Edge 4 | 0.024 | 0.289 | | 0.313 | No |
| | Rear | 0.095 | | 0.133 | 0.228 | No |
| | Front | 0.040 | | 0.133 | 0.173 | No |
| | Edge 4 | 0.024 | | 0.133 | 0.157 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio

**Sum of the SAR for LTE Band 17 &5.2GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 17 | 5.2GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.099 | 0.086 | | 0.185 | No |
| | Front | 0.050 | 0.309 | | 0.359 | No |
| | Edge 4 | 0.028 | 0.289 | | 0.317 | No |
| | Rear | 0.099 | | 0.133 | 0.232 | No |
| | Front | 0.050 | | 0.133 | 0.183 | No |
| | Edge 4 | 0.028 | | 0.133 | 0.161 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for GSM 850 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | GSM 850 | 5.8GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.780 | 0.051 | | 0.831 | No |
| | | 0.780 | | 0.133 | 0.913 | No |
| | Front | 0.582 | 0.242 | | 0.824 | No |
| | | 0.582 | | 0.133 | 0.715 | No |
| Body-worn (Data) | Rear | 0.928 | | 0.133 | 1.061 | No |
| | | 0.928 | 0.051 | | 0.979 | No |
| | Front | 0.583 | | 0.133 | 0.716 | No |
| | | 0.583 | 0.242 | | 0.825 | No |
| | Edge 4 | 0.324 | 0.359 | | 0.683 | No |
| | Edge 4 | 0.324 | | 0.133 | 0.457 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for GSM 1900 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | PCS 1900 | 5.8GHz WI-Fi DTS Band | Bluetooth | | |
| Body-worn (voice) | Rear | 0.241 | 0.051 | | 0.292 | No |
| | | 0.241 | | 0.133 | 0.374 | No |
| | Front | 0.183 | 0.242 | | 0.425 | No |
| | | 0.183 | | 0.133 | 0.316 | No |
| Body-worn (Data) | Rear | 0.911 | | 0.133 | 1.044 | No |
| | | 0.911 | 0.051 | | 0.962 | No |
| | Front | 0.664 | | 0.133 | 0.797 | No |
| | | 0.664 | 0.242 | | 0.906 | No |
| | Edge 4 | 0.178 | 0.359 | | 0.537 | No |
| | Edge 4 | 0.178 | | 0.133 | 0.311 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band II &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band II | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.712 | 0.051 | | 0.763 | No |
| | Front | 0.692 | 0.242 | | 0.934 | No |
| | Edge 4 | 0.619 | 0.359 | | 0.978 | No |
| | Rear | 0.712 | | 0.133 | 0.845 | No |
| | Front | 0.692 | | 0.133 | 0.825 | No |
| | Edge 4 | 0.619 | | 0.133 | 0.752 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band IV &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band IV | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.680 | 0.051 | | 0.731 | No |
| | Front | 0.471 | 0.242 | | 0.713 | No |
| | Edge 4 | 0.768 | 0.359 | | **1.127** | No |
| | Rear | 0.680 | | 0.133 | 0.813 | No |
| | Front | 0.471 | | 0.133 | 0.604 | No |
| | Edge 4 | 0.768 | | 0.133 | 0.901 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for WCDMA Band V &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | WCDMA Band V | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.537 | 0.051 | | 0.588 | No |
| | Front | 0.425 | 0.242 | | 0.667 | No |
| | Edge 4 | 0.241 | 0.359 | | 0.600 | No |
| | Rear | 0.537 | | 0.133 | 0.670 | No |
| | Front | 0.425 | | 0.133 | 0.558 | No |
| | Edge 4 | 0.241 | | 0.133 | 0.374 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 2 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 2 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.686 | 0.051 | | 0.737 | No |
| | Front | 0.621 | 0.242 | | 0.863 | No |
| | Edge 4 | 0.494 | 0.359 | | 0.853 | No |
| | Rear | 0.686 | | 0.133 | 0.819 | No |
| | Front | 0.621 | | 0.133 | 0.754 | No |
| | Edge 4 | 0.494 | | 0.133 | 0.627 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 4 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 4 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.685 | 0.051 | | 0.736 | No |
| | Front | 0.502 | 0.242 | | 0.744 | No |
| | Edge 4 | 0.433 | 0.359 | | 0.792 | No |
| | Rear | 0.685 | | 0.133 | 0.818 | No |
| | Front | 0.502 | | 0.133 | 0.635 | No |
| | Edge 4 | 0.433 | | 0.133 | 0.566 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 5 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 5 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.532 | 0.051 | | 0.583 | No |
| | Front | 0.475 | 0.242 | | 0.717 | No |
| | Edge 4 | 0.208 | 0.359 | | 0.567 | No |
| | Rear | 0.532 | | 0.133 | 0.665 | No |
| | Front | 0.475 | | 0.133 | 0.608 | No |
| | Edge 4 | 0.208 | | 0.133 | 0.341 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 7 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 7 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.614 | 0.051 | | 0.665 | No |
| | Front | 0.432 | 0.242 | | 0.674 | No |
| | Edge 4 | 0.180 | 0.359 | | 0.539 | No |
| | Rear | 0.614 | | 0.133 | 0.747 | No |
| | Front | 0.432 | | 0.133 | 0.565 | No |
| | Edge 4 | 0.180 | | 0.133 | 0.313 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for LTE Band 12 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 12 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.095 | 0.051 | | 0.146 | No |
| | Front | 0.040 | 0.242 | | 0.282 | No |
| | Edge 4 | 0.024 | 0.359 | | 0.383 | No |
| | Rear | 0.095 | | 0.133 | 0.228 | No |
| | Front | 0.040 | | 0.133 | 0.173 | No |
| | Edge 4 | 0.024 | | 0.133 | 0.157 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for LTE Band 17 &5.8GHz Wi-Fi & BT:**

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | Σ1-g SAR (W/kg) | SPLSR (Yes/No) |
|---|---|---|---|---|---|---|
| | | LTE Band 17 | 5.8GHz Wi-Fi DTS Band | Bluetooth | | |
| Body-worn | Rear | 0.099 | 0.051 | | 0.150 | No |
| | Front | 0.050 | 0.242 | | 0.292 | No |
| | Edge 4 | 0.028 | 0.359 | | 0.387 | No |
| | Rear | 0.099 | | 0.133 | 0.232 | No |
| | Front | 0.050 | | 0.133 | 0.183 | No |
| | Edge 4 | 0.028 | | 0.133 | 0.161 | No |

**Note:**

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

# APPENDIX A. SAR SYSTEM CHECK DATA

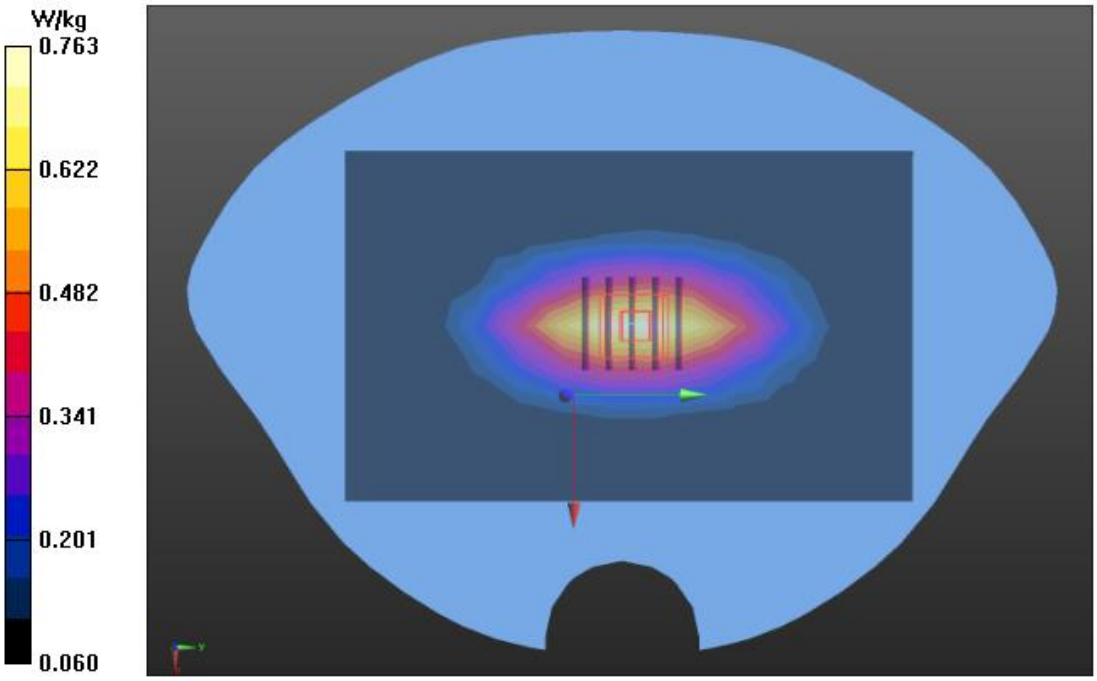
**Test Laboratory: AGC Lab** **Date: Nov. 08, 2021**
**System Check Head 750MHz**
**DUT: Dipole 750 MHz Type: SID 750**

Communication System: CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1;
Frequency: 750 MHz; Medium parameters used: f = 750MHz; σ=0.90 mho/m; εr =42.61; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 750MHz/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.758 W/kg

**Configuration/System Check Head 750MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.552 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.953 W/kg
**SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.354 W/kg**
Maximum value of SAR (measured) = 0.763 W/kg



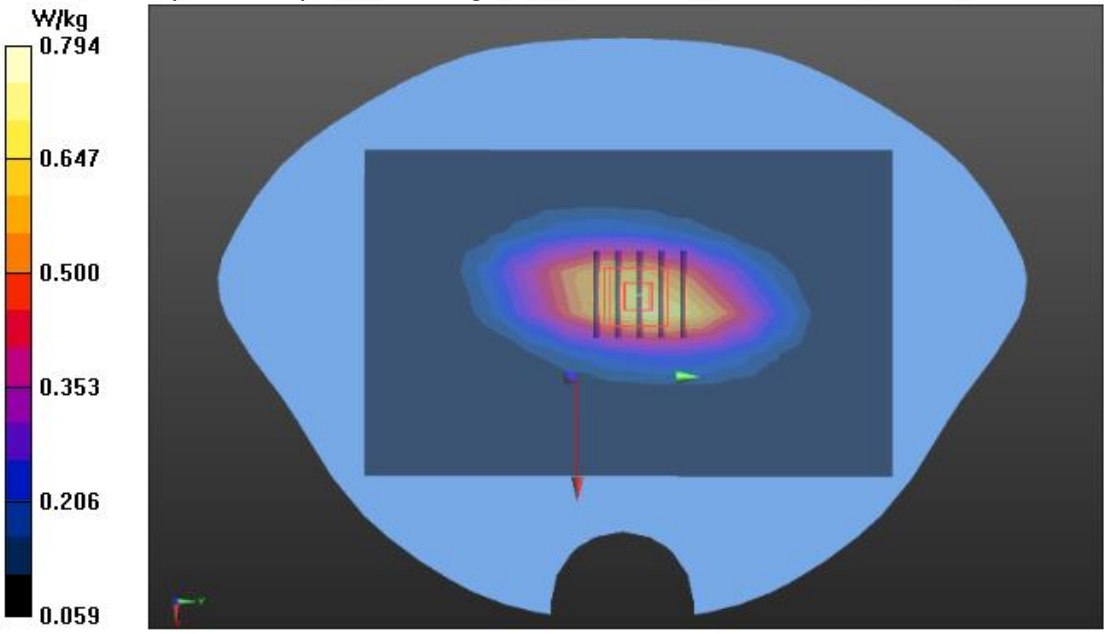
**Test Laboratory: AGC Lab** **Date: Nov. 22, 2021**
**System Check Head 835 MHz**
**DUT: Dipole 835 MHz Type: SID 835**

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =41.74; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 835MHz/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.775 W/kg

**Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.572 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.04 W/kg
**SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.404 W/kg**
Maximum value of SAR (measured) = 0.794 W/kg



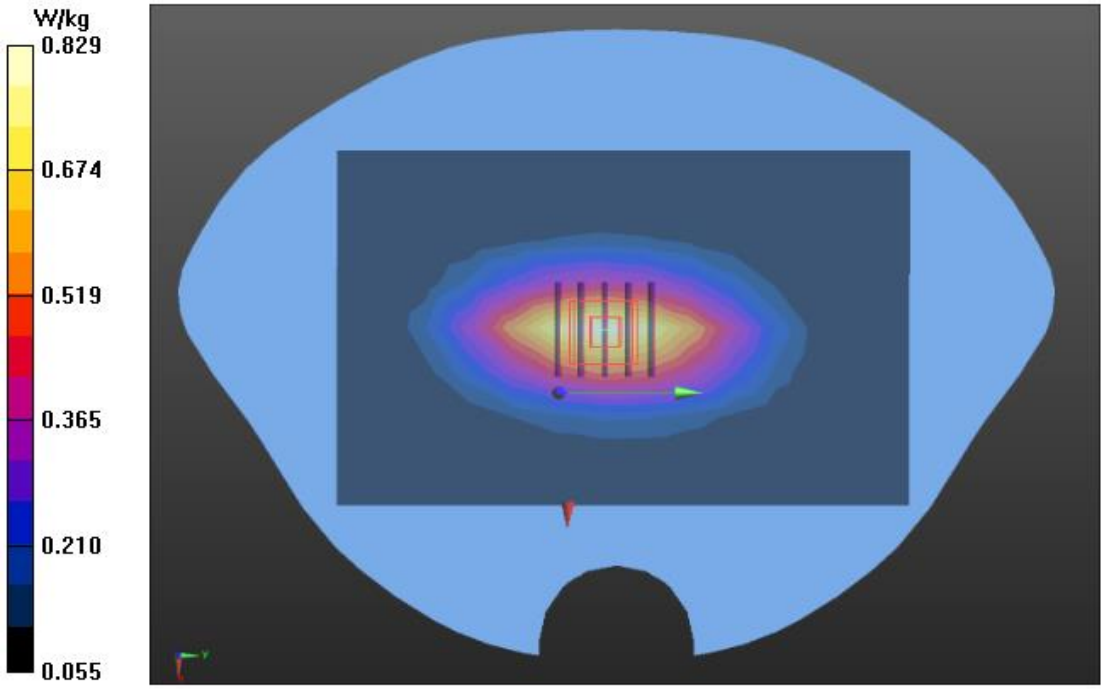
**Test Laboratory: AGC Lab** **Date: Nov. 24, 2021**
**System Check Head 835 MHz**
**DUT: Dipole 835 MHz Type: SID 835**

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.88 mho/m; εr =42.72; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 835MHz/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.824 W/kg

**Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.987 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.999 W/kg
**SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.389 W/kg**
Maximum value of SAR (measured) = 0.829 W/kg



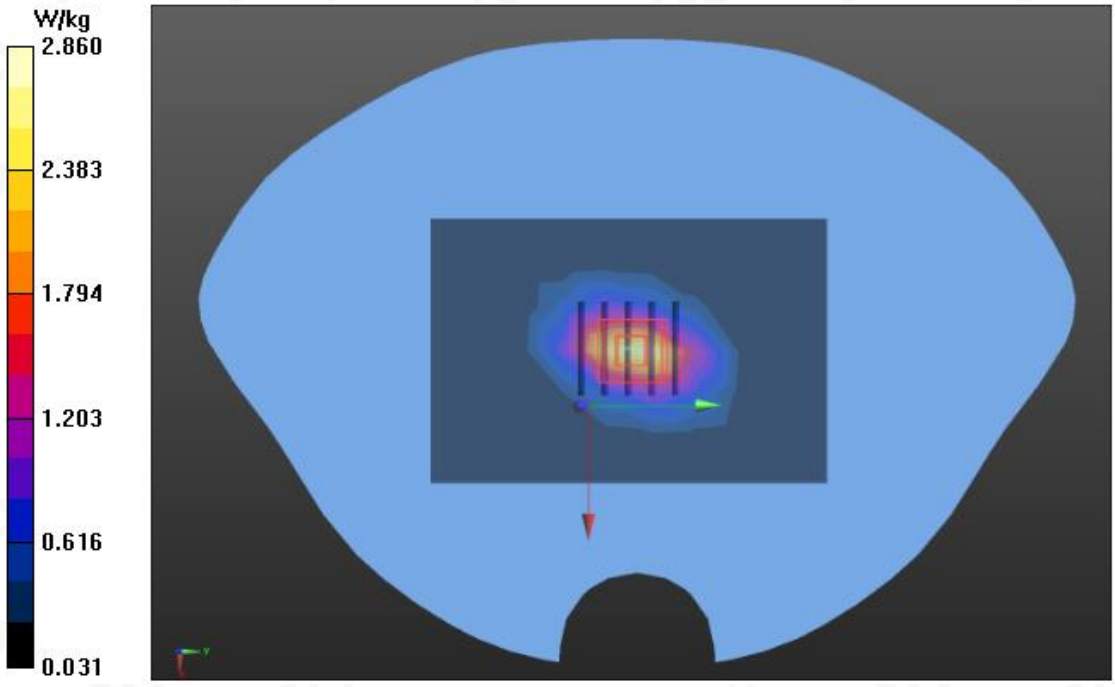
**Test Laboratory: AGC Lab** **Date: Nov. 03, 2021**
**System Check Head 1750MHz**
**DUT: Dipole 1800 MHz; Type: SID 1800**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle: 1:1;
Frequency: 1750 MHz; Medium parameters used: f = 1750 MHz; $\sigma$=1.36 mho/m; $\varepsilon_r$ =39.87; $\rho$= 1000 kg/m$^3$ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 1750MHz/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.59 W/kg

**Configuration/System Check Head 1750MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.257 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 4.22 W/kg
**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.23 W/kg**
Maximum value of SAR (measured) = 2.86 W/kg



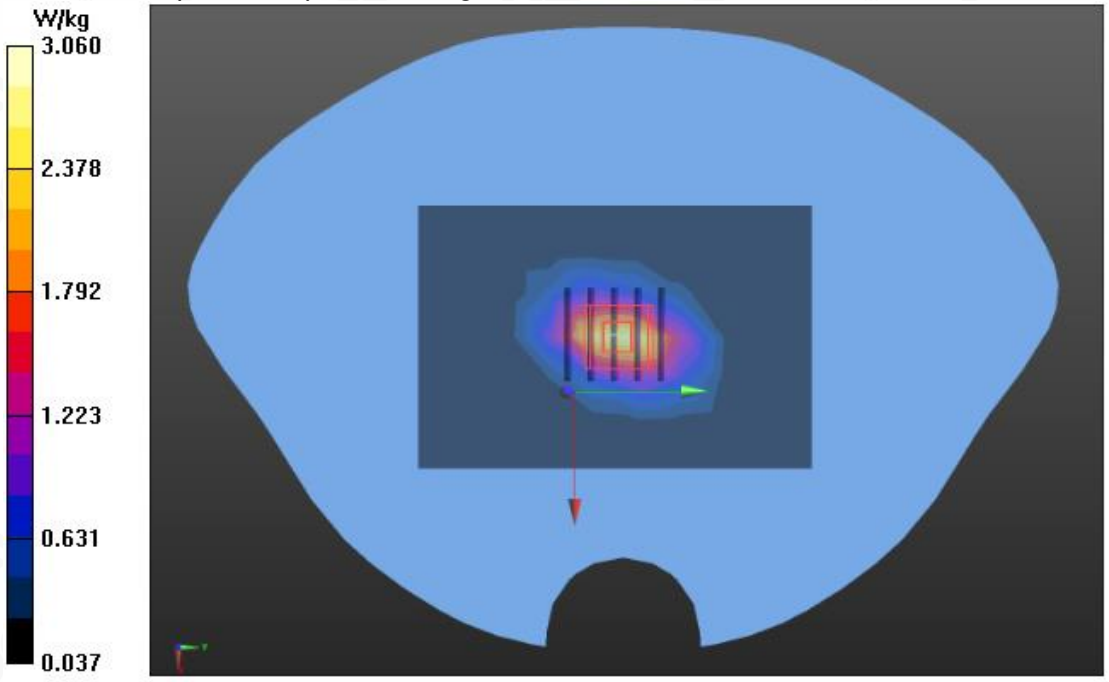
**Test Laboratory: AGC Lab** **Date: Nov. 02, 2021**
**System Check Head 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.37 mho/m; εr =39.56; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 1900MH/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.95 W/kg

**Configuration/System Check Head 1900MH/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.589 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 4.49 W/kg
**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.27 W/kg**
Maximum value of SAR (measured) = 3.06 W/kg



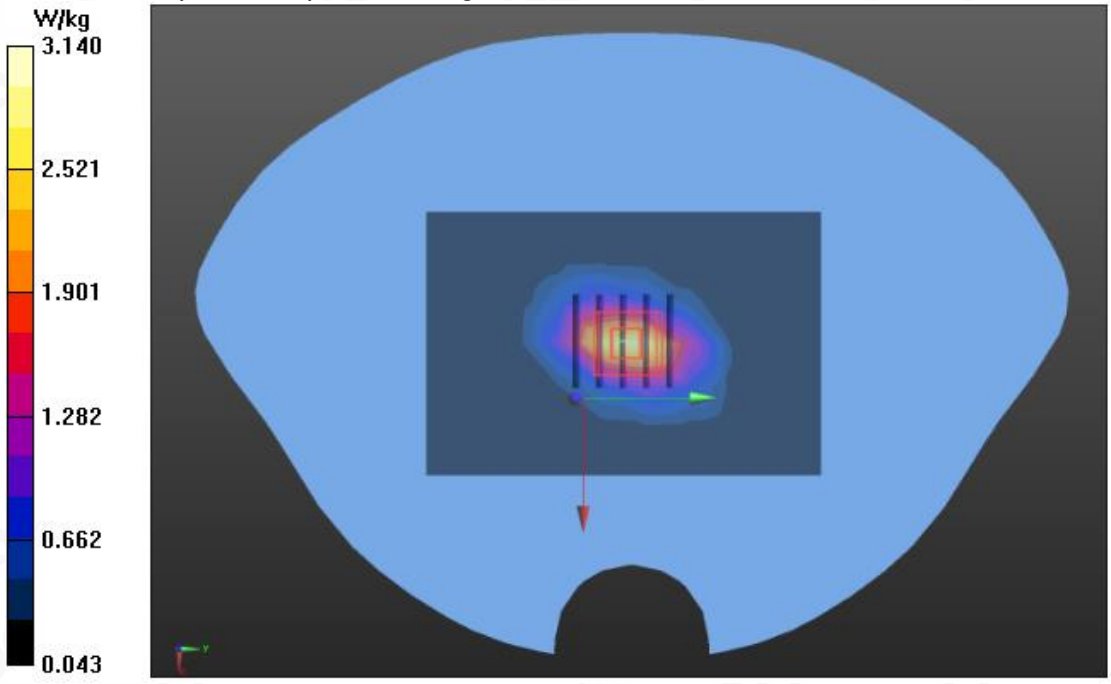
**Test Laboratory: AGC Lab** **Date: Nov. 25, 2021**
**System Check Head 1900MHz**
**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma$=1.39 mho/m; $\varepsilon r$ =39.57;; $\rho$= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 1900MHz/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.01 W/kg

**Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.918 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 4.75 W/kg
**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.29 W/kg**
Maximum value of SAR (measured) = 3.14 W/kg



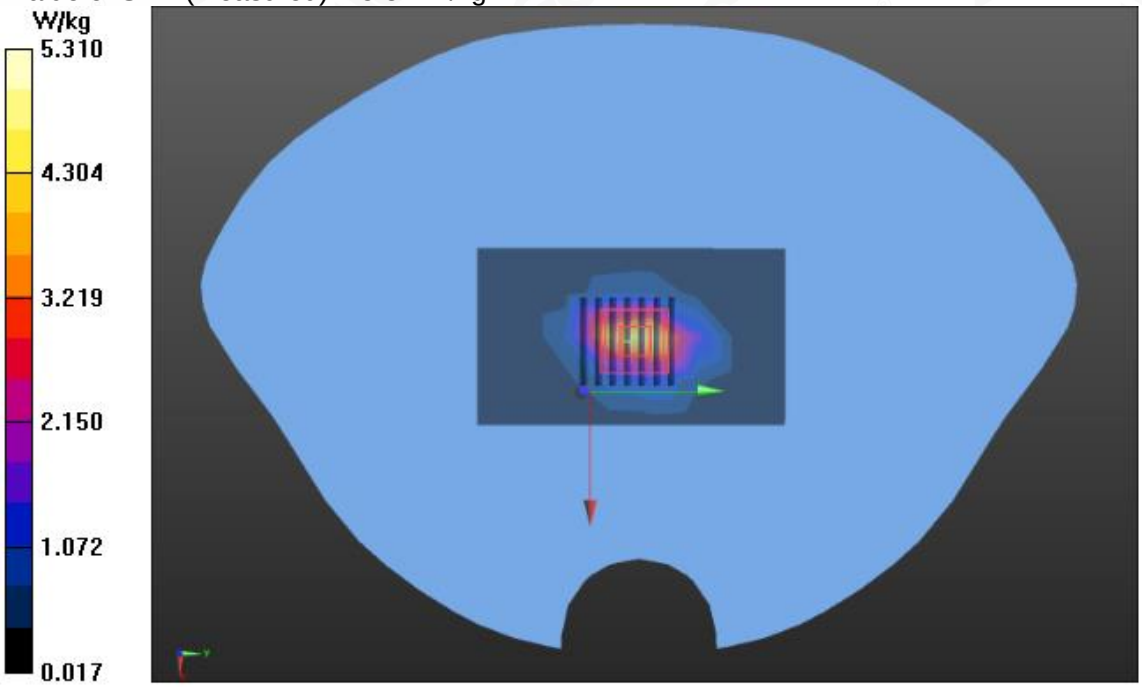
**Test Laboratory: AGC Lab** **Date: Nov. 04, 2021**
**System Check Head 2450 MHz**
**DUT: Dipole 2450 MHz Type: SID 2450**

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.78 mho/m; εr =38.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 2450Hz/Area Scan (5x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) =5.25 W/kg

**Configuration/System Check Head 2450Hz/Zoom Scan (5x5x5)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.017 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 7.35 W/kg
**SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.56 W/kg**
Maximum value of SAR (measured) = 5.31 W/kg



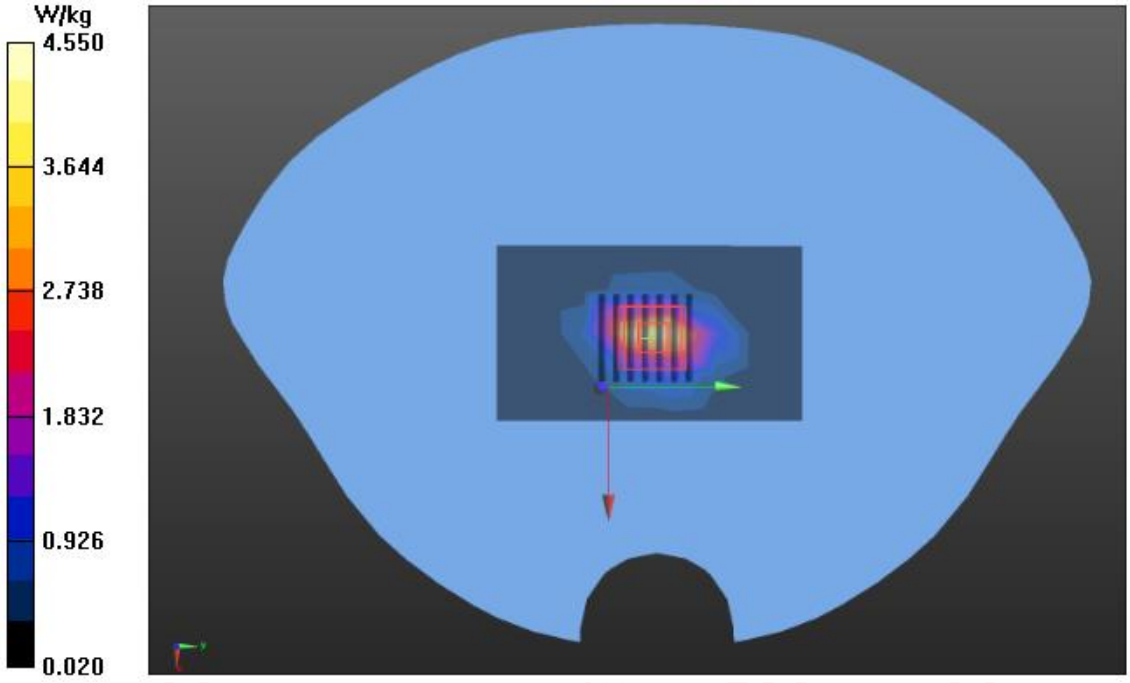
**Test Laboratory: AGC Lab** **Date: Nov. 01, 2021**
**System Check Head 2600 MHz**
**DUT: Dipole 2600 MHz; Type: SID 2600**

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1;
Frequency: 2600 MHz; Medium parameters used: f = 2600 MHz; $\sigma$=1.91 mho/m; $\varepsilon_r$ =38.64; $\rho$= 1000 kg/m$^3$ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.42, 7.42, 7.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 2600Hz/Area Scan (5x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.71 W/kg

**Configuration/System Check Head 2600Hz/Zoom Scan (5x5x5)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.558 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 6.12 W/kg
**SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.47 W/kg**
Maximum value of SAR (measured) = 4.55 W/kg



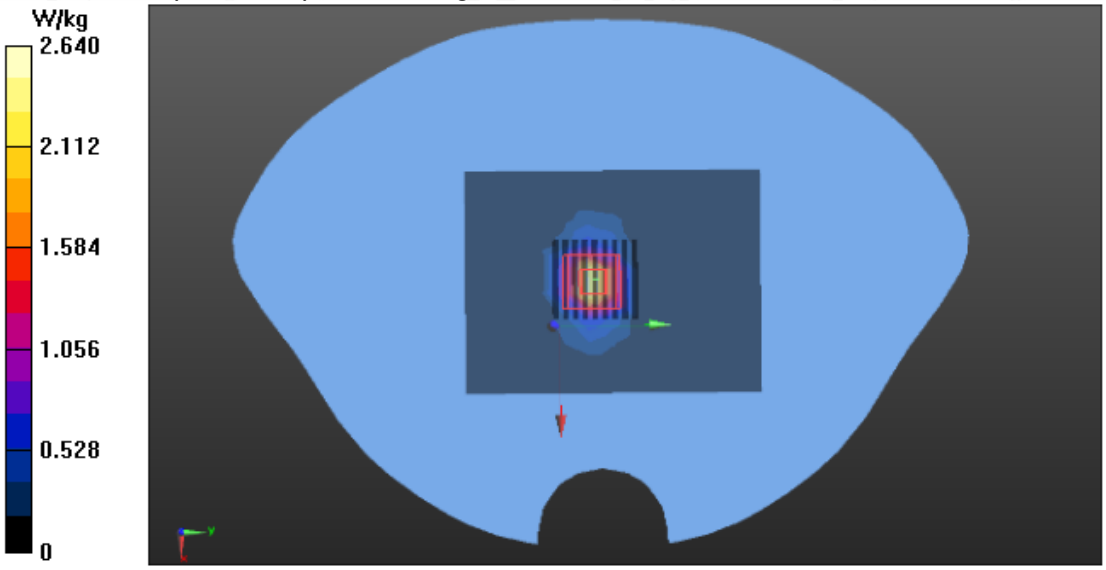
**Test Laboratory: AGC Lab** **Date: Nov. 26, 2021**
**System Check Head 5200 MHz**
**DUT: Dipole 5000MHz Type: SWG5500**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.72mho/m; εr = 35.24; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5200MHz Head/Area Scan (10x13x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.35 W/kg

**Configuration/System Check 5200MHz Head/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 24.530 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 4.82 W/kg
**SAR(1 g) = 1.49 W/kg; SAR(10 g) = 0.534 W/kg**
Maximum value of SAR (measured) = 2.64 W/kg



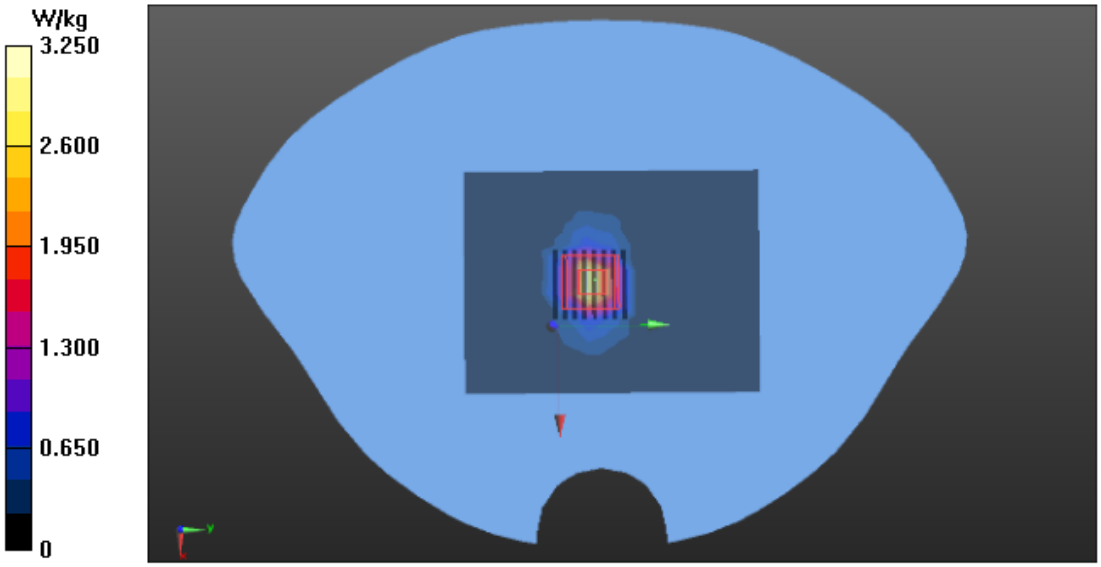
**Test Laboratory: AGC Lab** **Date: Nov. 27, 2021**
**System Check Head 5800 MHz**
**DUT: Dipole 5000MHz Type: SWG5500**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5800 MHz; Medium parameters used: f = 5750 MHz; σ =5.24 mho/m; εr =35.82; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.7,

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5800MHz Head/Area Scan (10x13x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.85 W/kg

**Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 27.030 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 5.90 W/kg
**SAR(1 g) = 1.76 W/kg; SAR(10 g) = 0.596 W/kg**
Maximum value of SAR (measured) = 3.25 W/kg



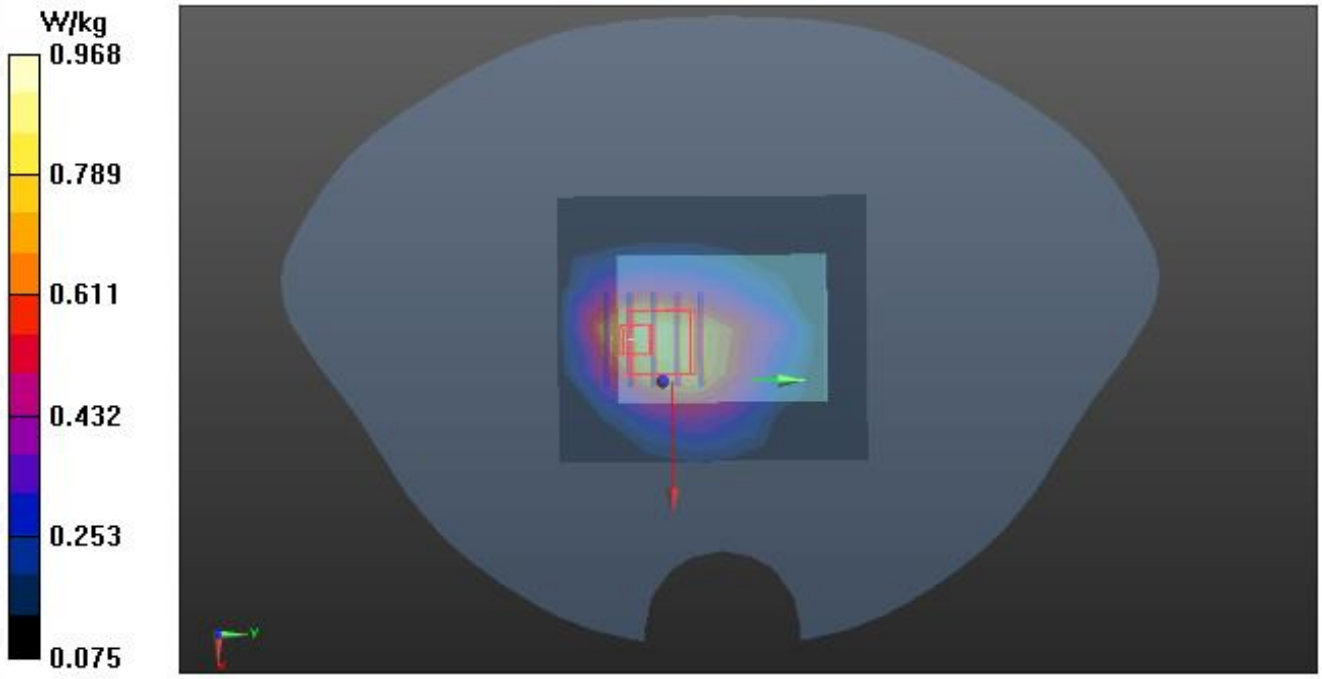
# APPENDIX B. SAR MEASUREMENT DATA

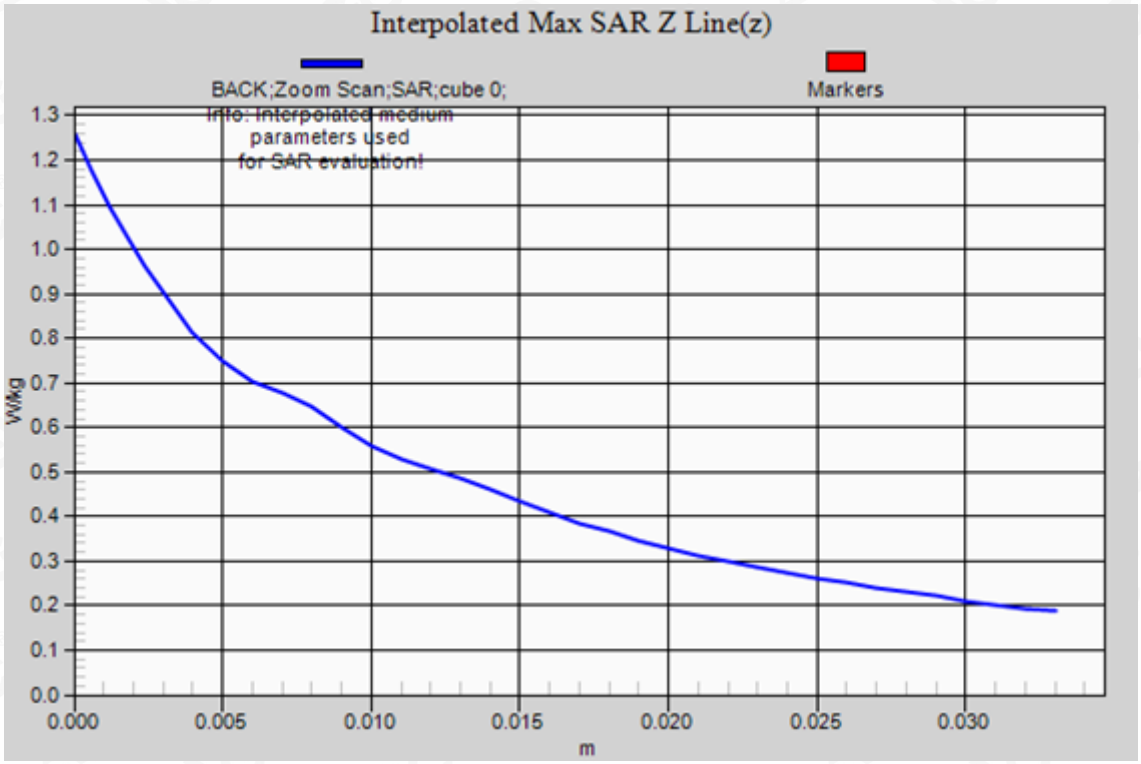
**Test Laboratory: AGC Lab** **Date: Nov. 22, 2021**
**GPRS 850 Mid- Body- Back (2up) < SIM 1>**
**DUT: Brama S-C; Type: M1**

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.92 mho/m; εr = 41.43; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/Repert/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.893 W/kg
**BODY/Repert/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.280 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.19 W/kg
**SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.610 W/kg**
Maximum value of SAR (measured) = 0.968 W/kg



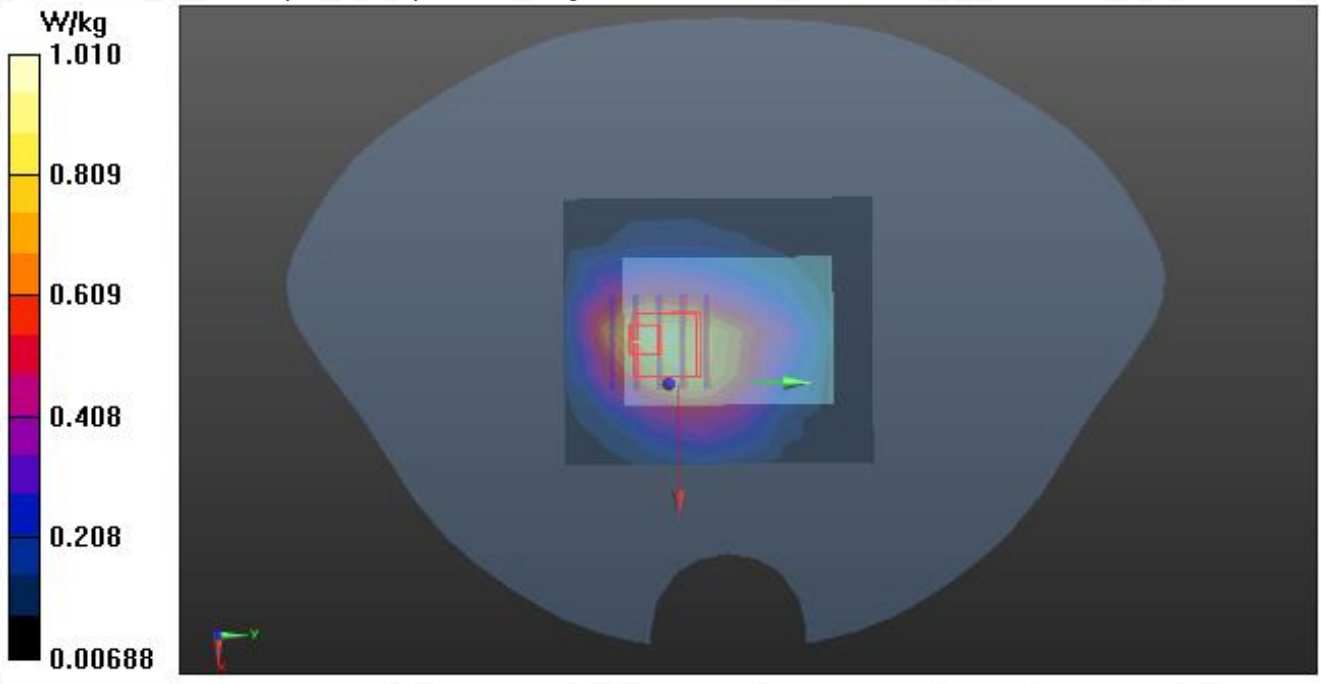


**Test Laboratory: AGC Lab** **Date: Nov. 22, 2021**
**GPRS 850 High- Body- Back (2up) < SIM 1>**
**DUT: Brama S-C; Type: M1**

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2;
Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 41.18; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK HIGH/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.917 W/kg
**BODY/BACK HIGH/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.975 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.26 W/kg
**SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.628 W/kg**
Maximum value of SAR (measured) = 1.01 W/kg

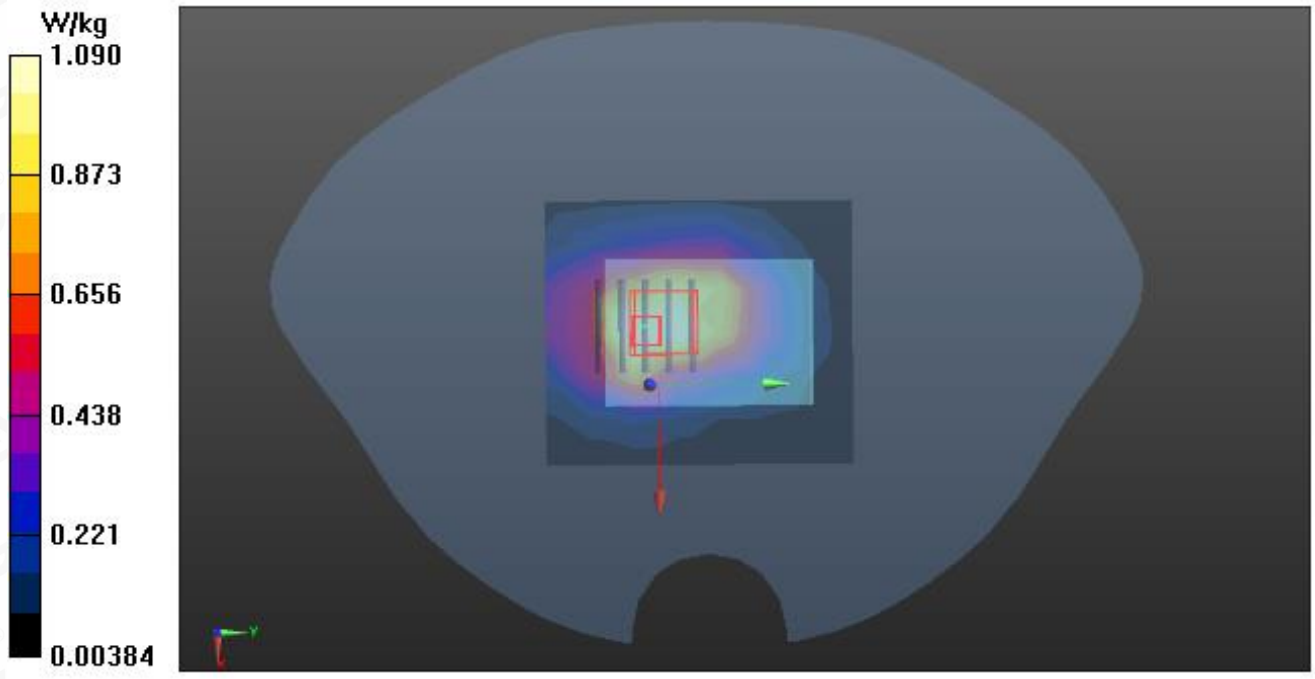


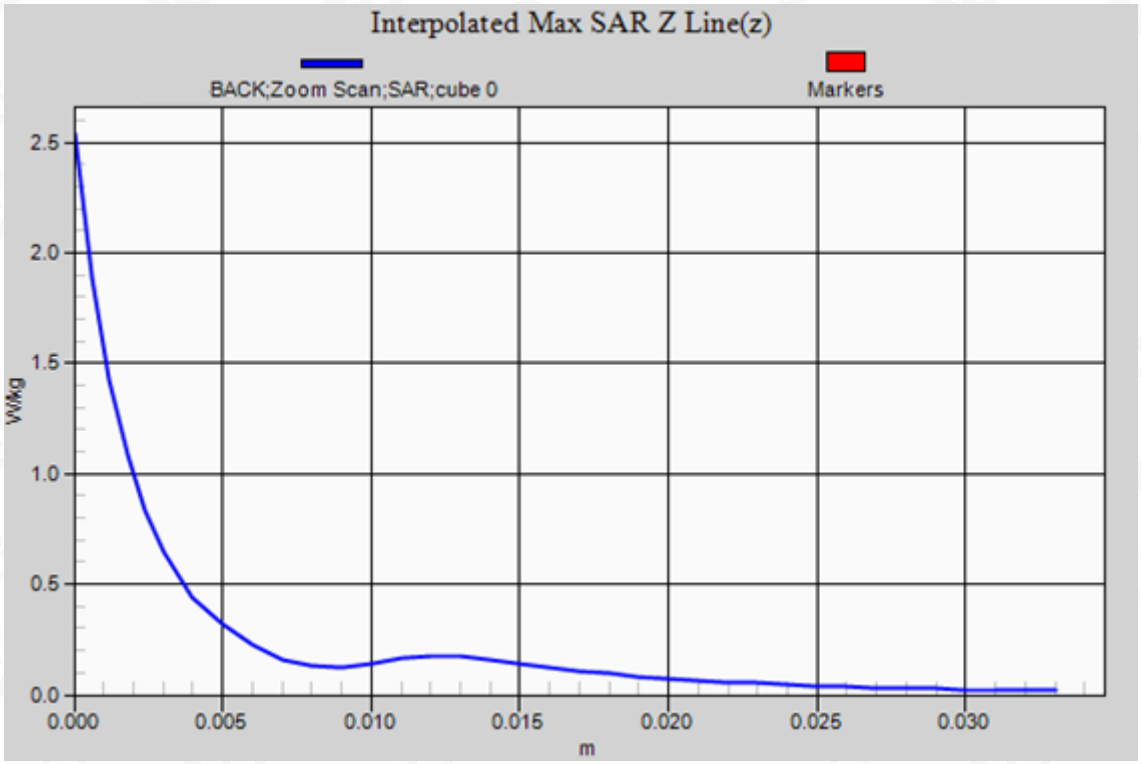
**Test Laboratory: AGC Lab** **Date: Nov. 02, 2021**
**GPRS 1900 Mid-Body- Back (2up) < SIM 1>**
**DUT: Brama S-C; Type: M1**

Communication System: GPRS-2 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.36 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.24 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.443 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.54 W/kg
**SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.524 W/kg**
Maximum value of SAR (measured) = 1.09 W/kg



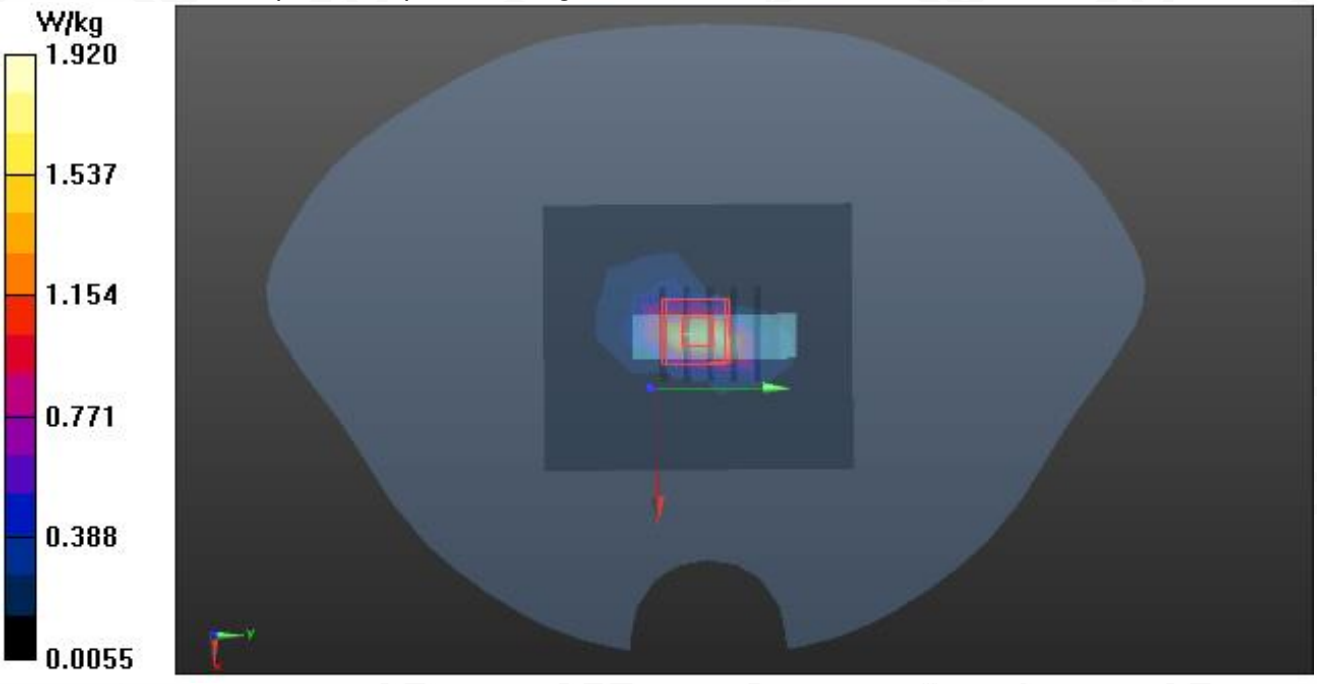


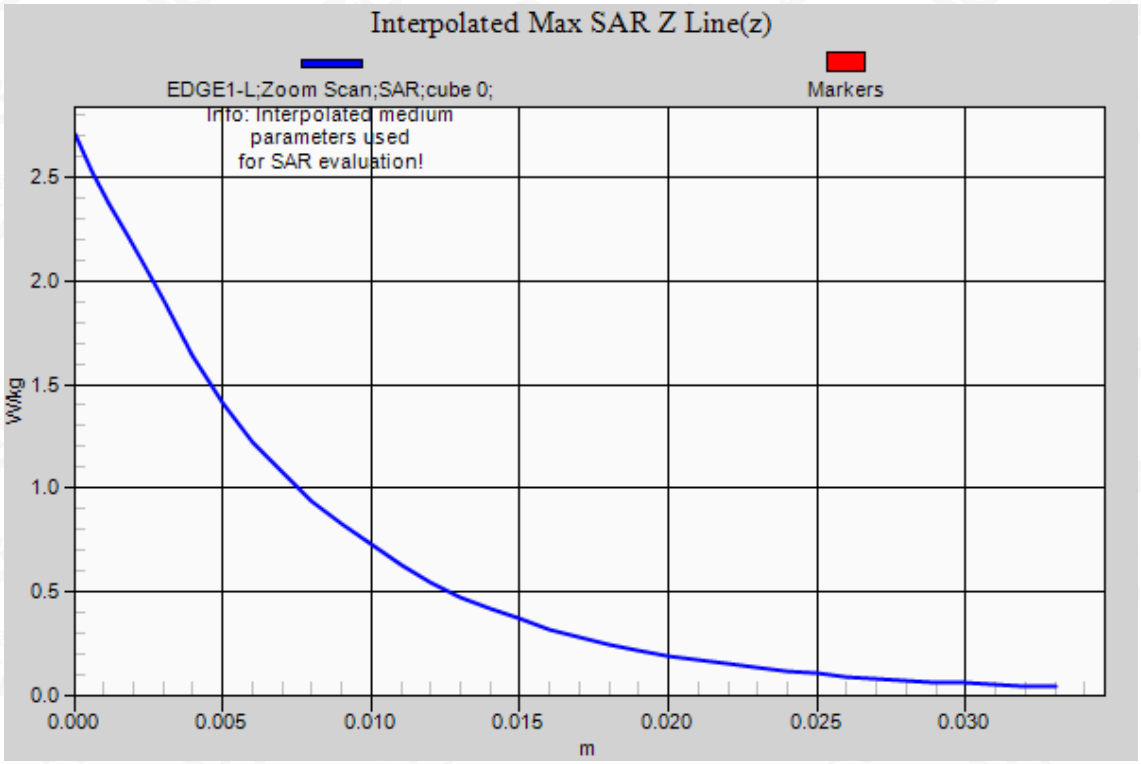
**Test Laboratory: AGC Lab** **Date: Nov. 02, 2021**
**WCDMA Band II Low-Edge 1**
**DUT: Brama S-C; Type: M1**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;
Frequency: 1852.4 MHz; Medium parameters used: f = 1900 MHz; σ=1.35 mho/m; εr =40.64; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE1-L/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.81 W/kg
**BODY 3/EDGE1-L/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.039 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.71 W/kg
**SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.504 W/kg**
Maximum value of SAR (measured) = 1.92 W/kg



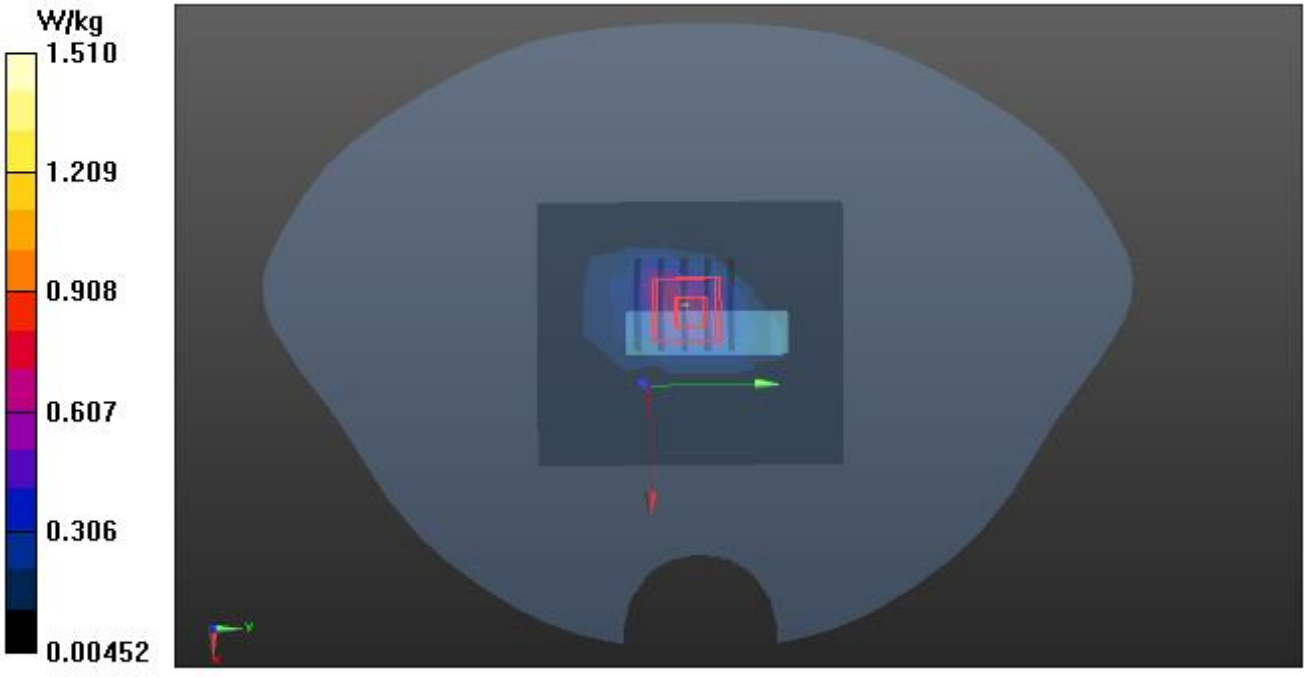


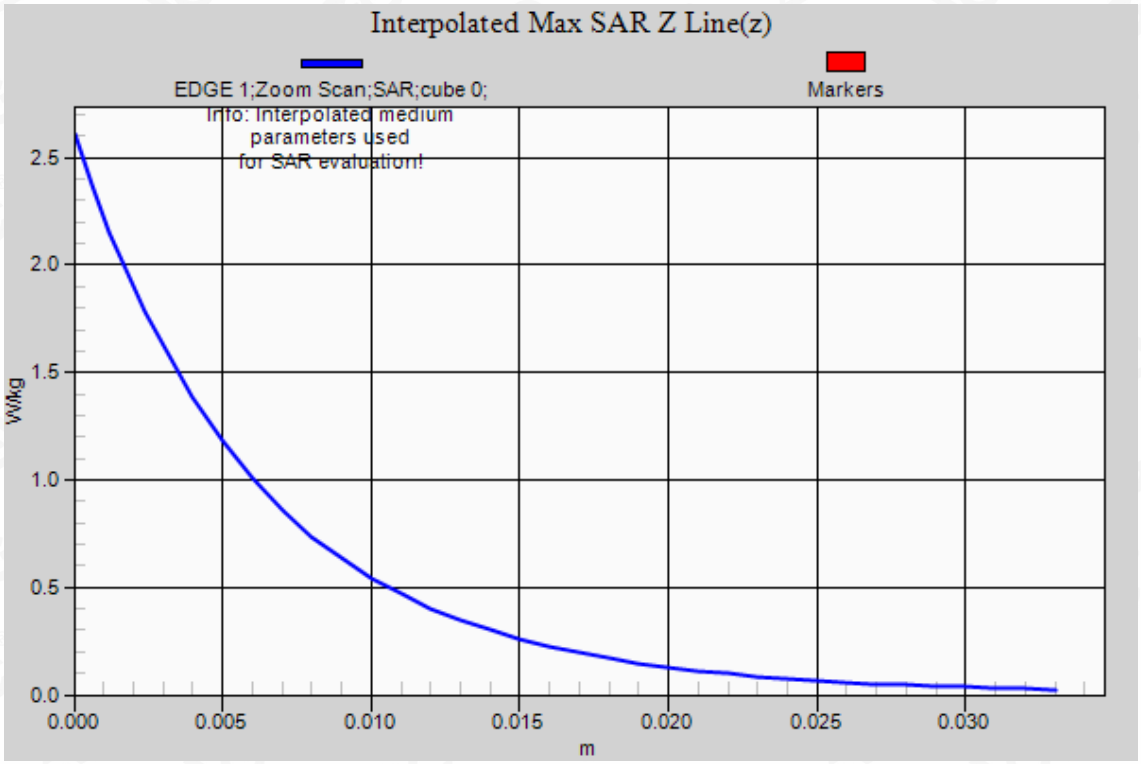
**Test Laboratory: AGC Lab** **Date: Nov. 03, 2021**
**WCDMA Band IV Mid- Edge 1**
**DUT: Brama S-C; Type: M1**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD;Duty Cycle:1:1;
Frequency: 1732.4 MHz; Medium parameters used: f = 1800 MHz; $\sigma$= 1.35 mho/m; $\varepsilon r$ =40.25; $\rho$= 1000 kg/m$^3$ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE 1/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.743 W/kg
**BODY 3/EDGE 1/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.576 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.61 W/kg
**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.433 W/kg**
Maximum value of SAR (measured) = 1.51 W/kg



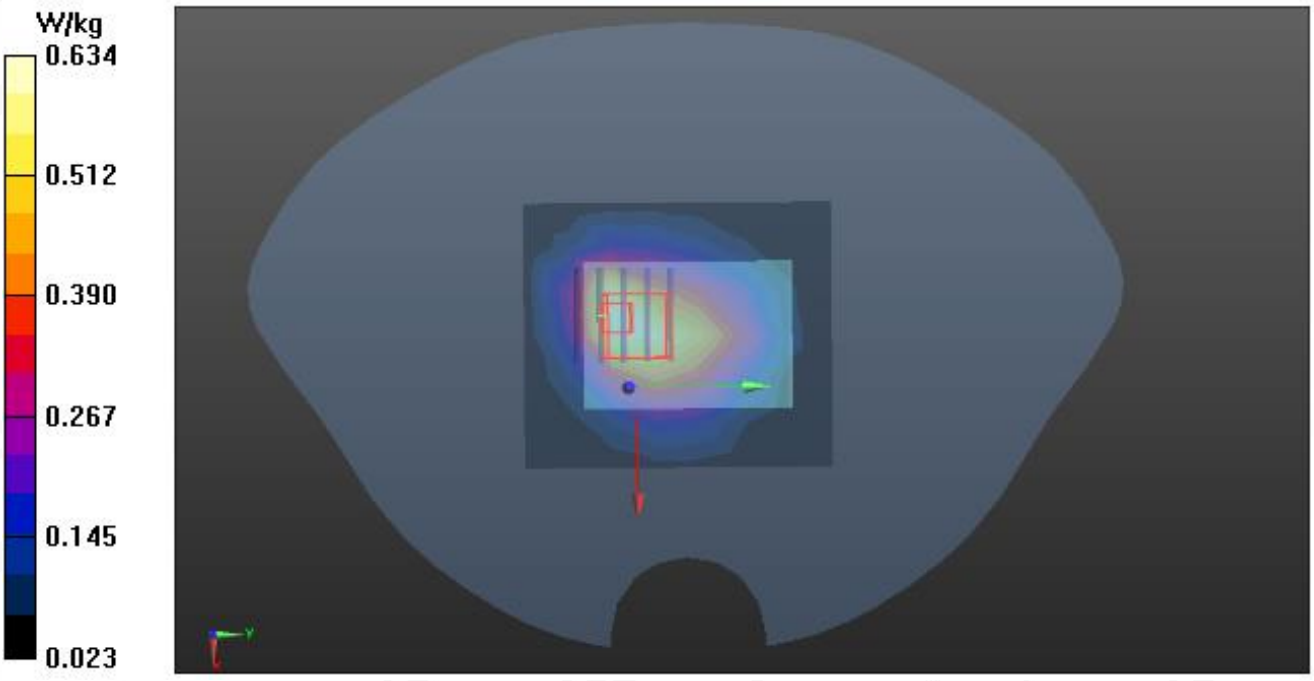


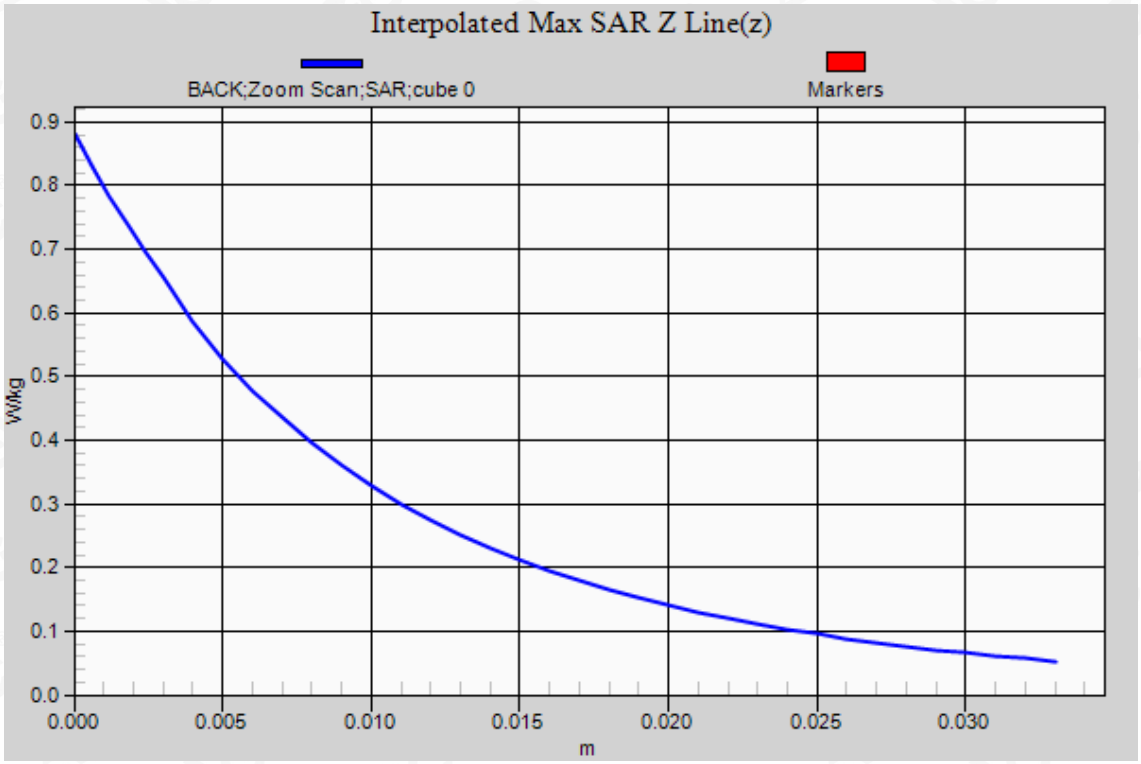
**Test Laboratory: AGC Lab** **Date: Nov. 22, 2021**
**WCDMA Band V Mid-Body-Towards Grounds**
**DUT: Brama S-C; Type: M1**

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz;σ=0.92 mho/m; εr =41.43; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.609 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.498 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.881 W/kg
**SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.339 W/kg**
Maximum value of SAR (measured) = 0.634 W/kg



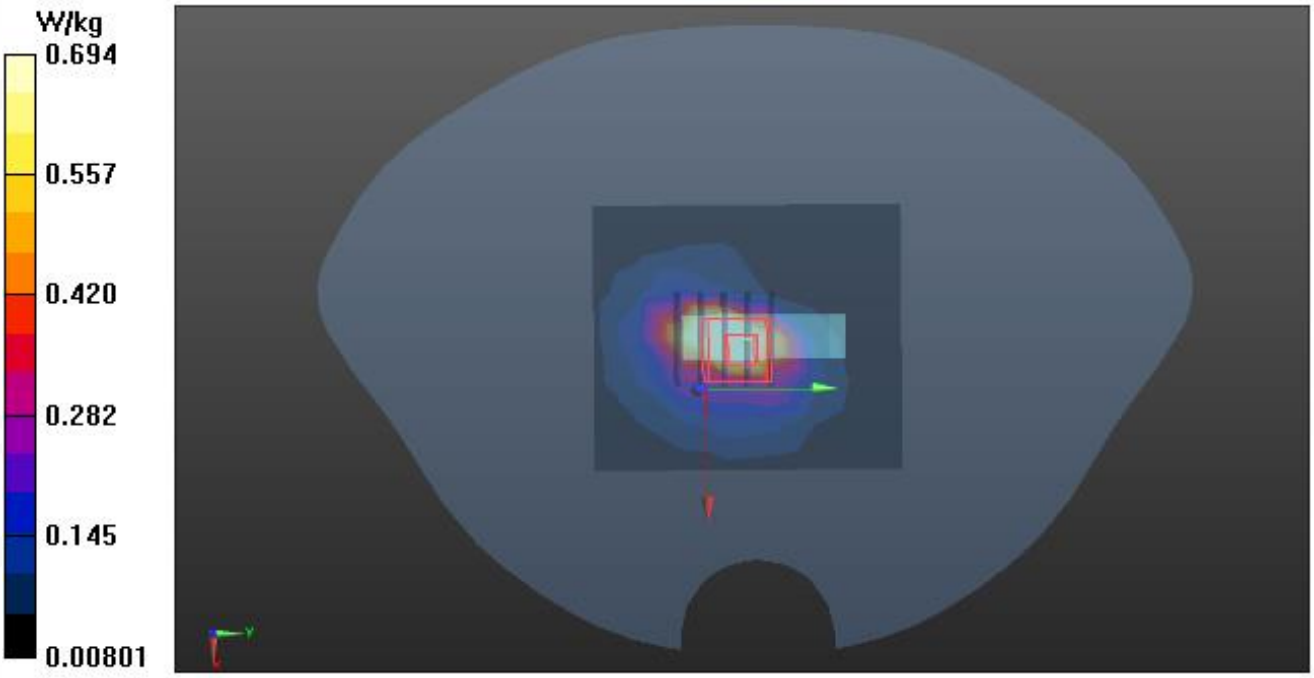


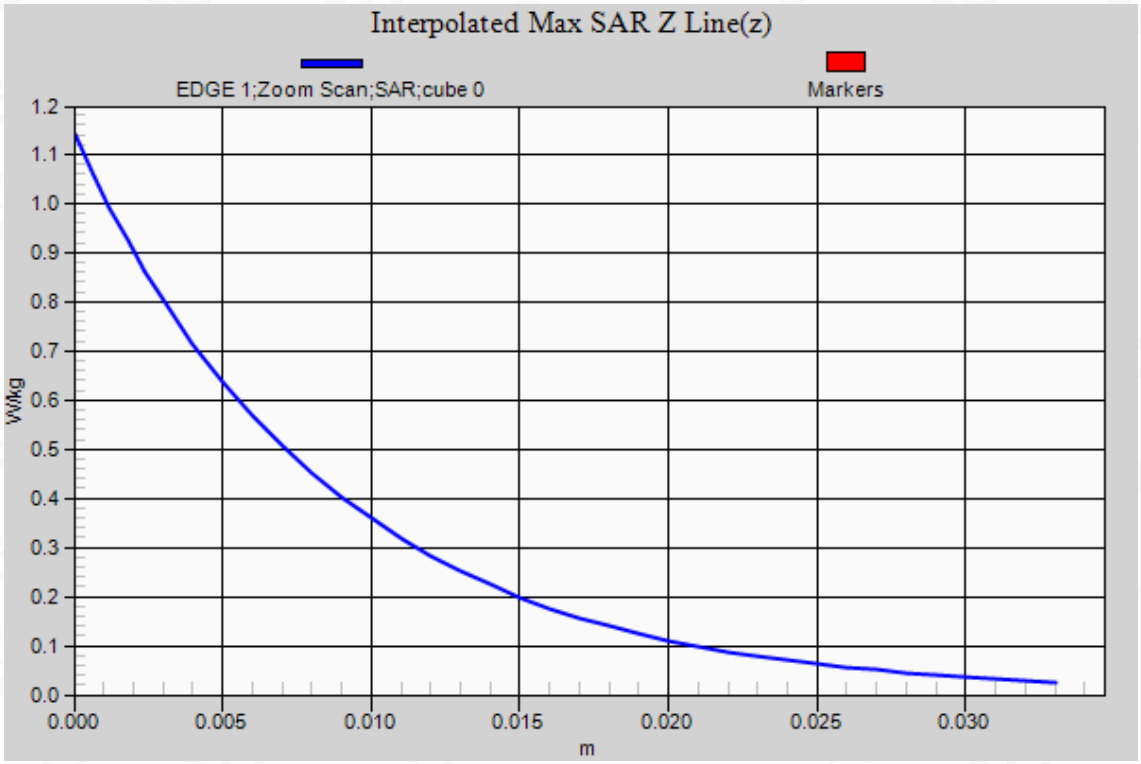
**Test Laboratory: AGC Lab** **Date: Nov. 25, 2021**
**LTE Band 2 Mid-Body- Edge 1 (1 RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma$= 1.38 mho/m; $\varepsilon r$ =39.85; $\rho$= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE 1/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.18 W/kg
**BODY 3/EDGE 1/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.260 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.14 W/kg
**SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.284 W/kg**
Maximum value of SAR (measured) = 0.694 W/kg



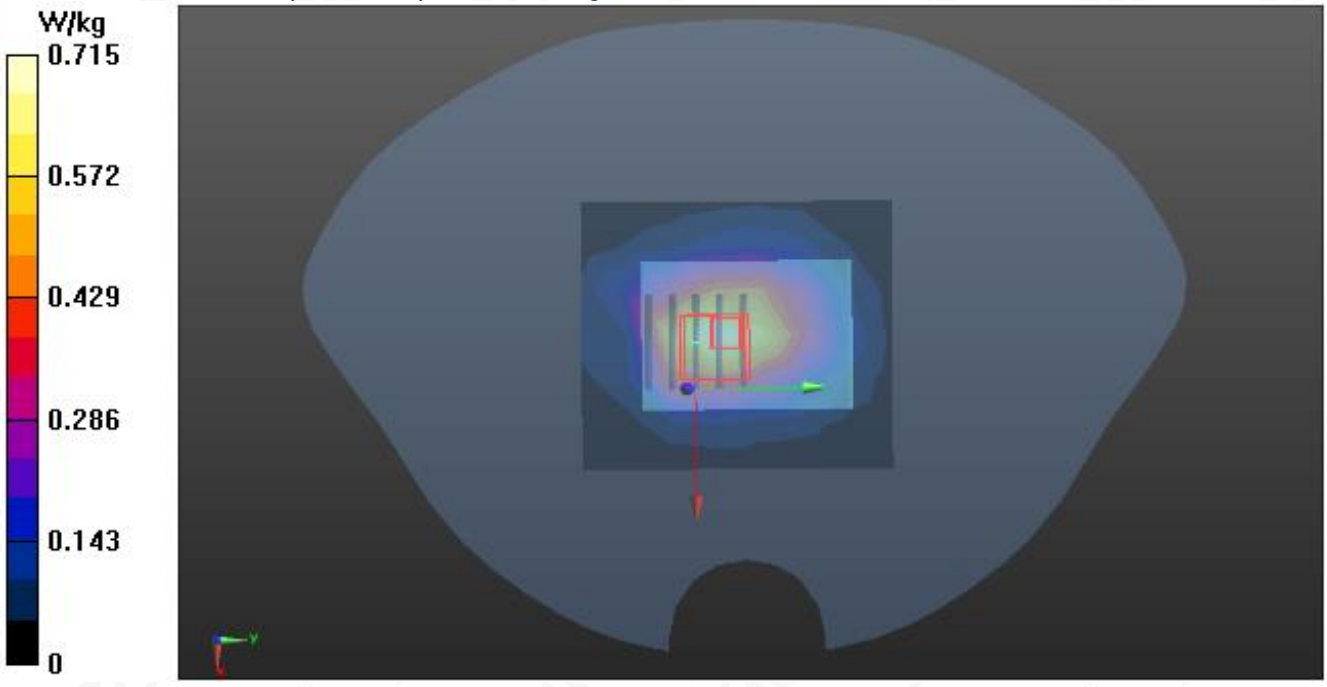


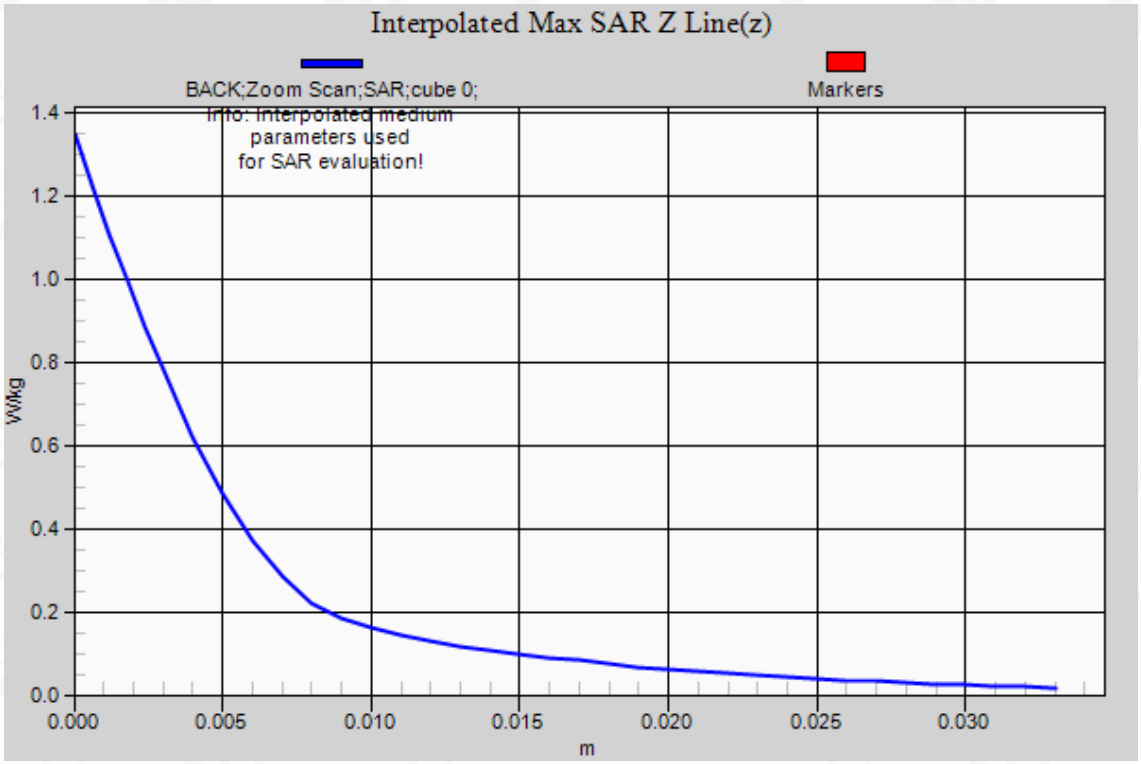
**Test Laboratory: AGC Lab** **Date: Nov. 03, 2021**
**LTE Band 4 Mid-Body-Back (1 RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.35 mho/m; εr =40.25; ρ= 1000 kg/m$^3$ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.774 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.018 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.35 W/kg
**SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.329 W/kg**
Maximum value of SAR (measured) = 0.715 W/kg



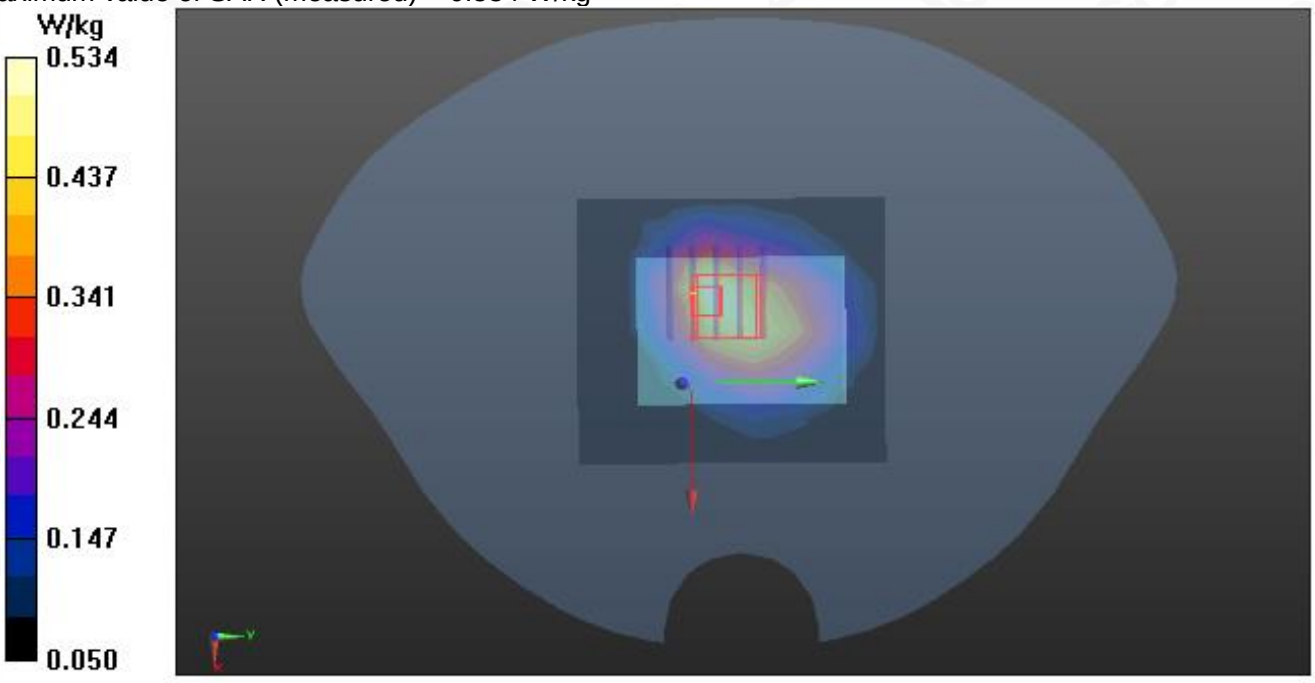


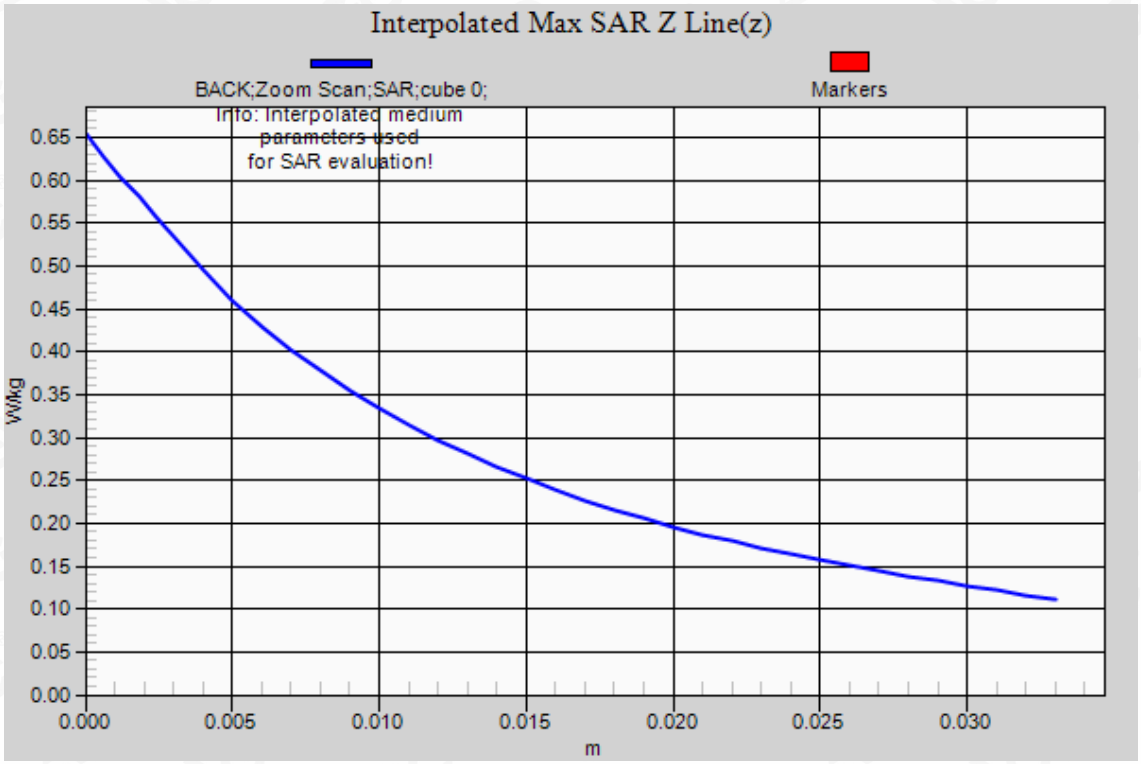
**Test Laboratory: AGC Lab** **Date: Nov. 24, 2021**
**LTE Band 5 Mid-Body-Back (1 RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.89mho/m; εr =42.51; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.533 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.490 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.654 W/kg
**SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.339 W/kg**
Maximum value of SAR (measured) = 0.534 W/kg



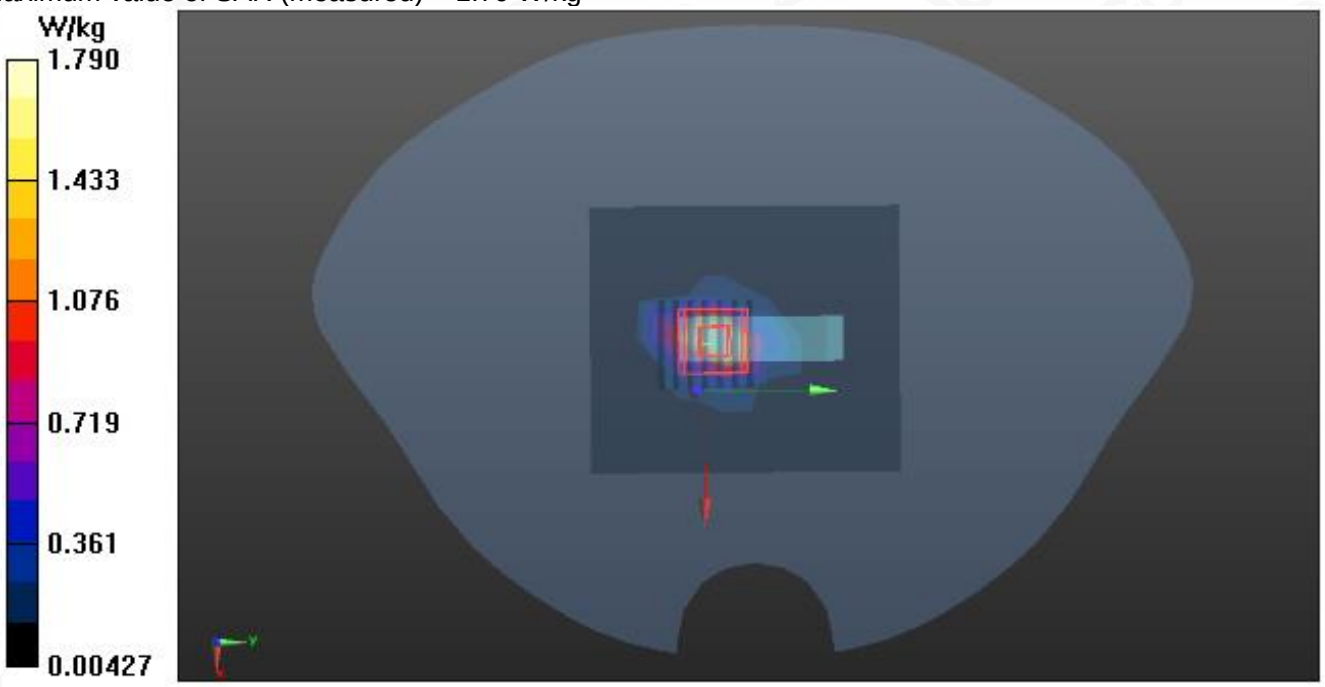


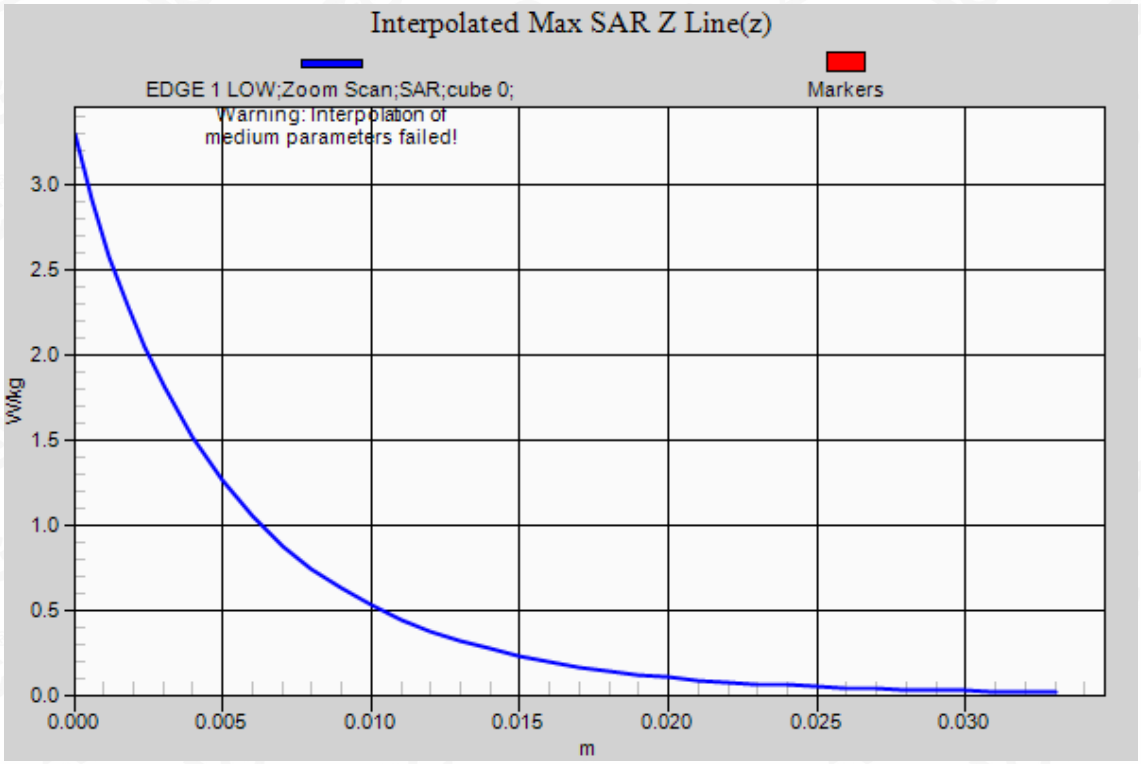
**Test Laboratory: AGC Lab** **Date: Nov. 01, 2021**
**LTE Band 7 Low-Body- Edge 1 (1RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2510MHz; Medium parameters used: f =2600 MHz; σ=1.88 mho/m; εr =39.74; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.42, 7.42, 7.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE 1 LOW/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.21 W/kg
**BODY 3/EDGE 1 LOW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.034 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.30 W/kg
**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.499 W/kg**
Maximum value of SAR (measured) = 1.79 W/kg



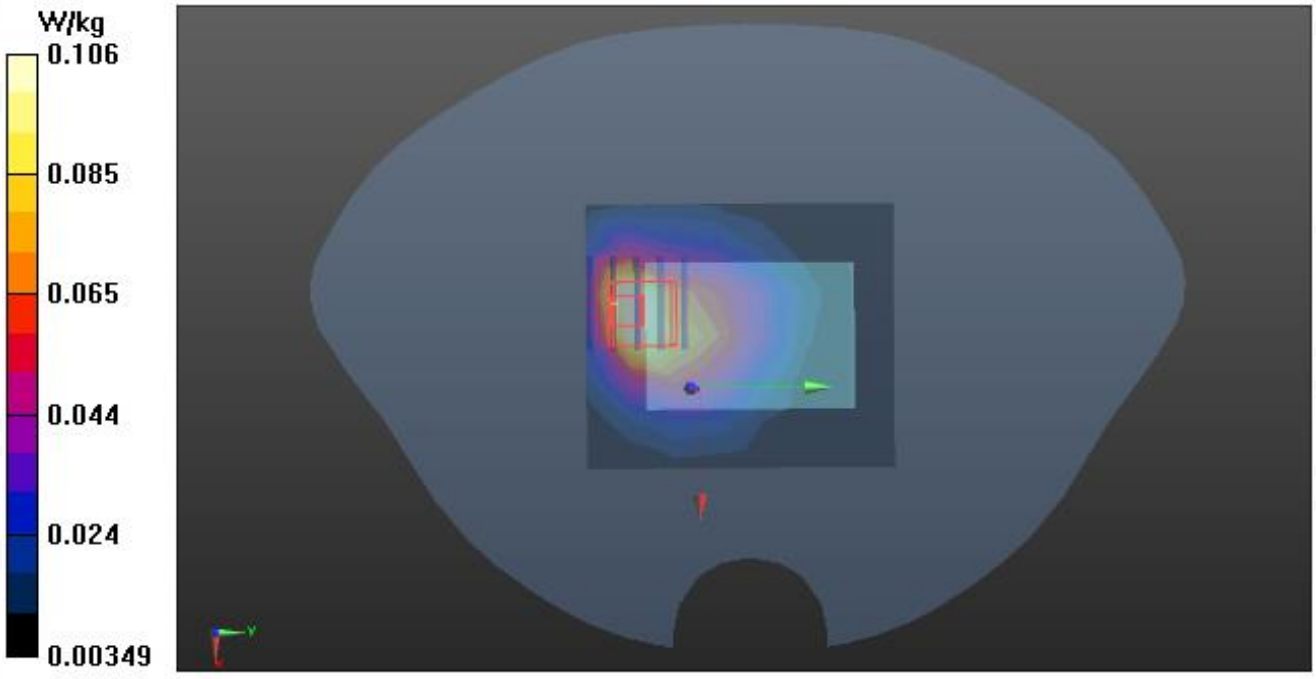


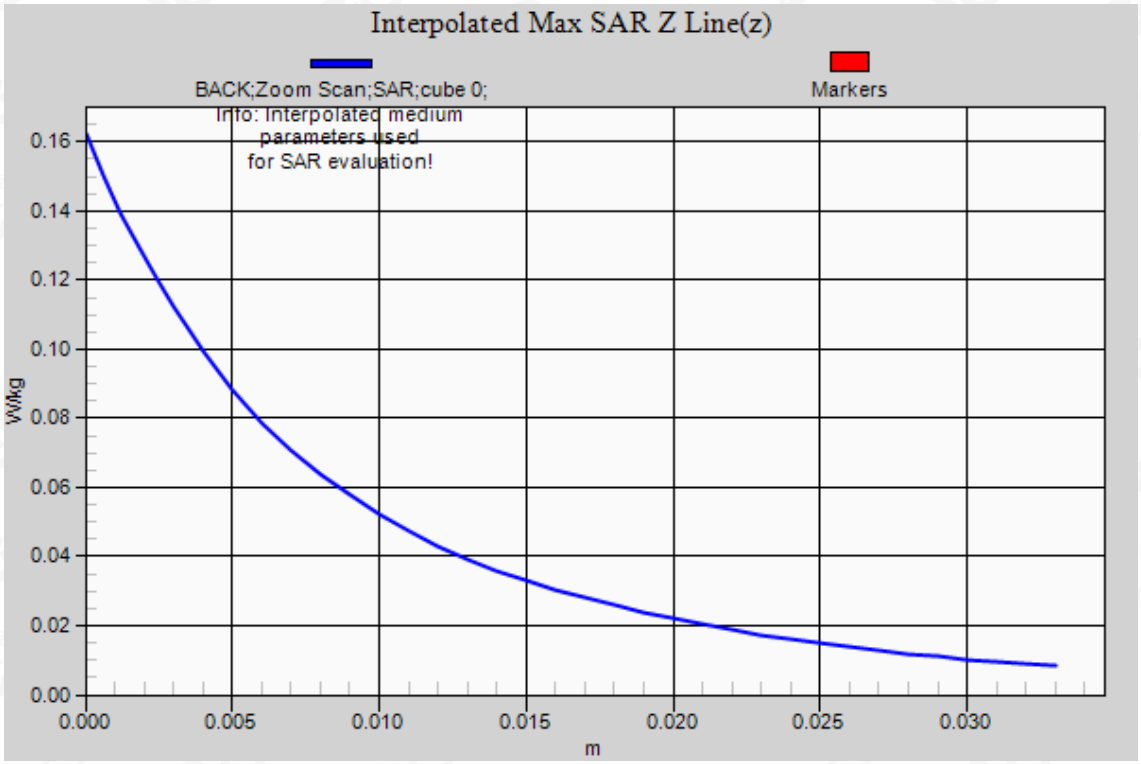
**Test Laboratory: AGC Lab** **Date: Nov. 08, 2021**
**LTE Band 12 Mid-Body-Back (1 RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =43.15; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.117 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.234 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.162 W/kg
**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.054 W/kg**
Maximum value of SAR (measured) = 0.106 W/kg



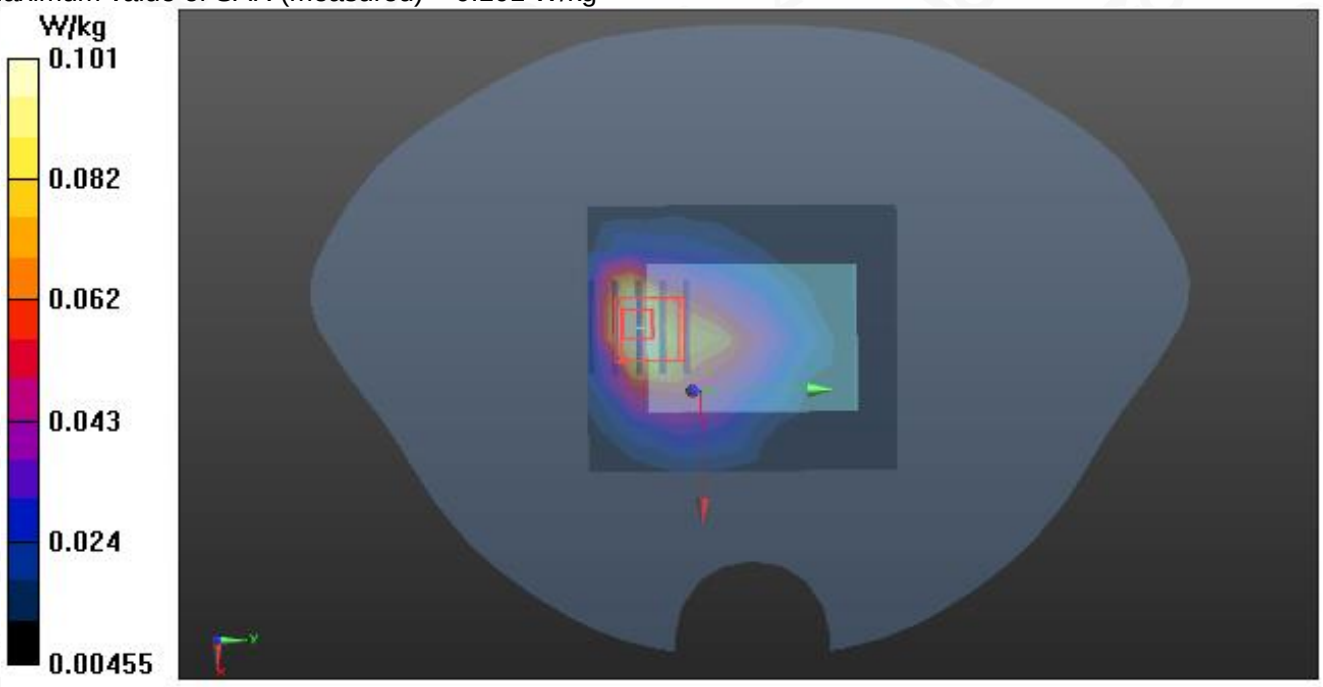


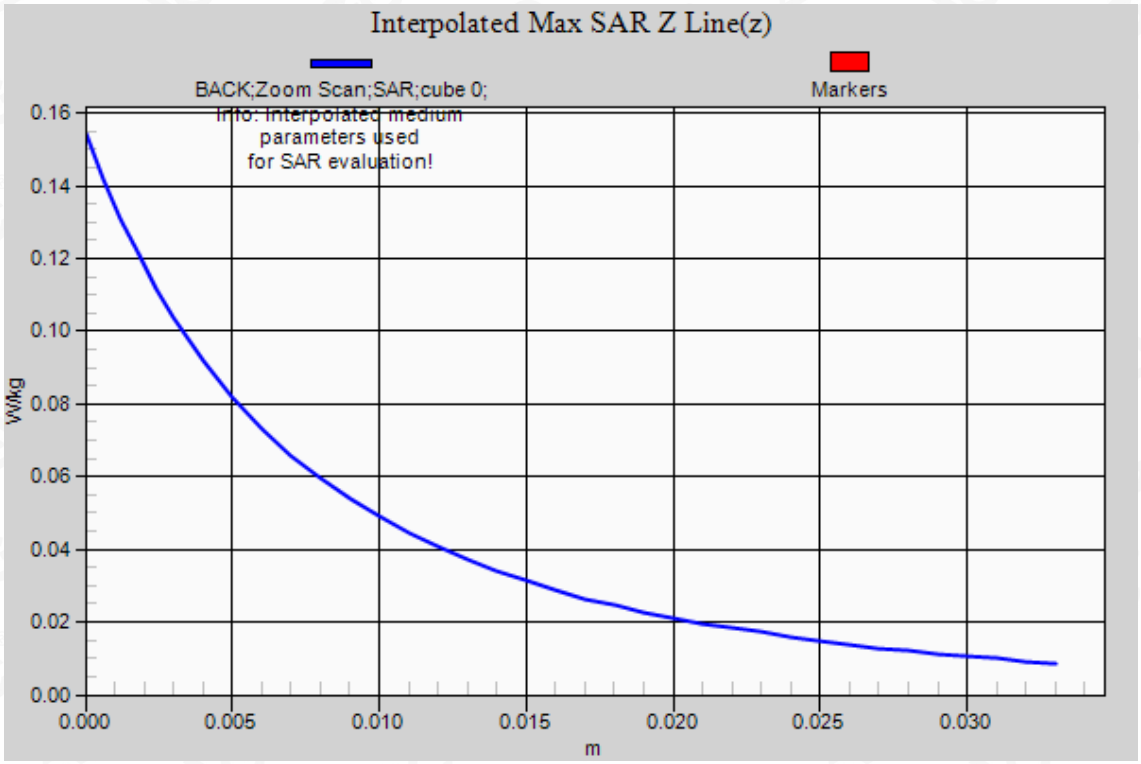
**Test Laboratory: AGC Lab** **Date: Nov. 08, 2021**
**LTE Band 17 Mid-Body-Back (1 RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1;
Frequency: 710 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.88; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.110 W/kg
**BODY/BACK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.476 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.154 W/kg
**SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.051 W/kg**
Maximum value of SAR (measured) = 0.101 W/kg



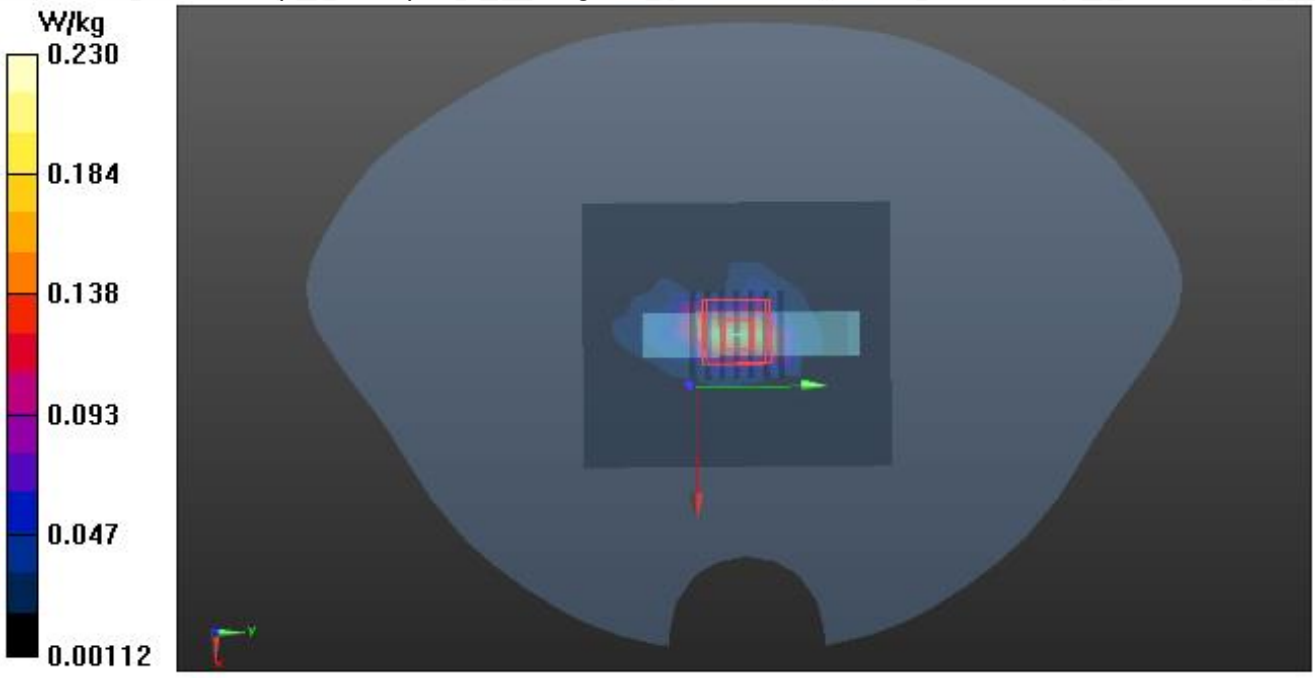


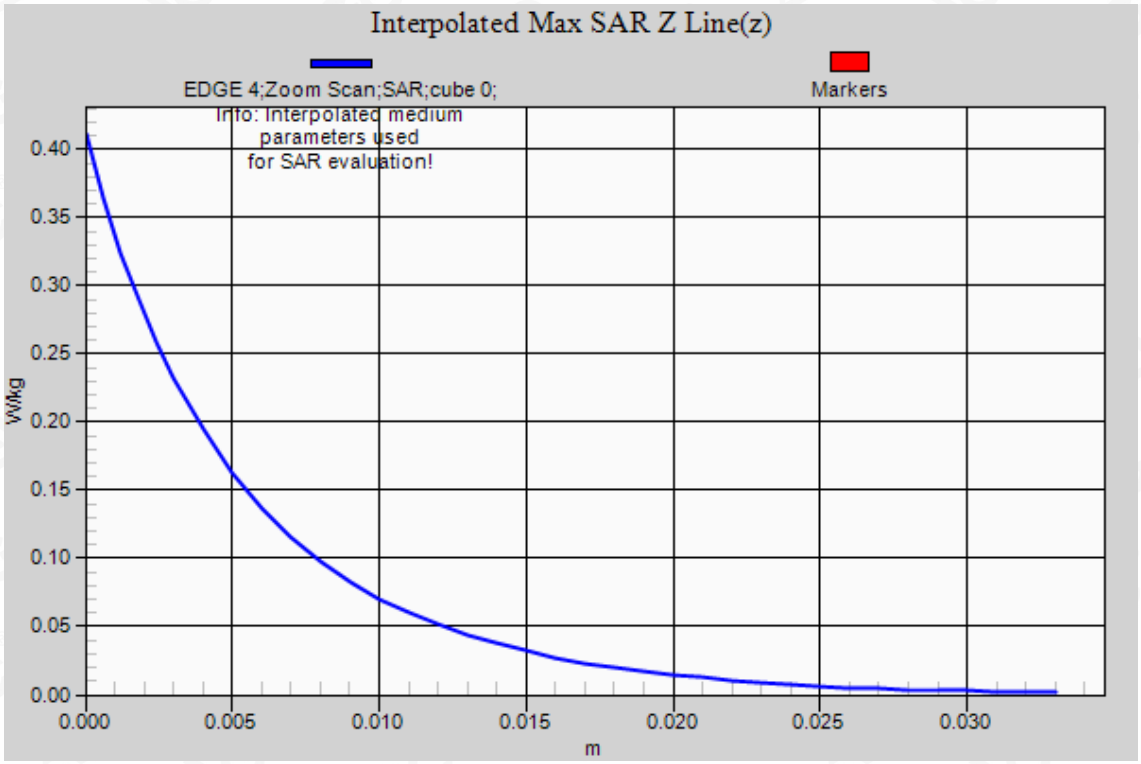
**WIFI MODE**
**Test Laboratory: AGC Lab** **Date: Nov. 04, 2021**
**802.11b Mid- Edge4 (DTS)**
**DUT: Brama S-C; Type: M1**

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ=1.77 mho/m; εr =38.95;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 2/EDGE 4/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.211 W/kg
**BODY 2/EDGE 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.955 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.411 W/kg
**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.063 W/kg**
Maximum value of SAR (measured) = 0.230 W/kg



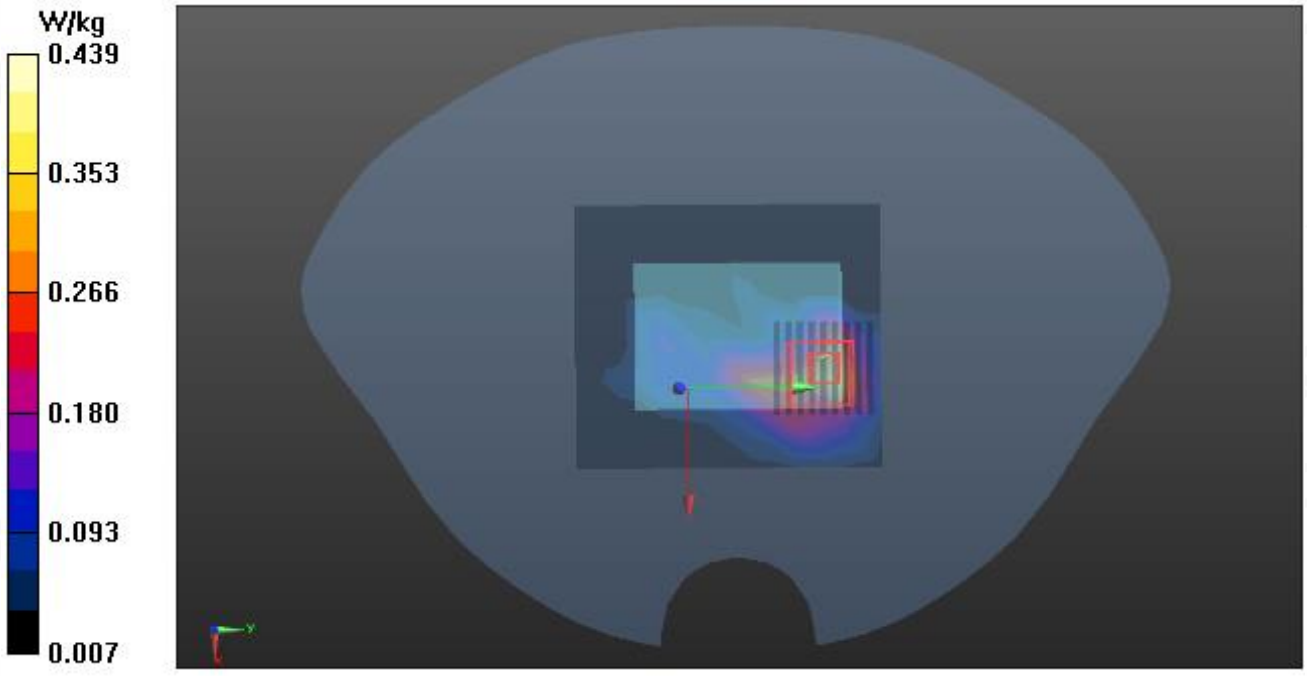


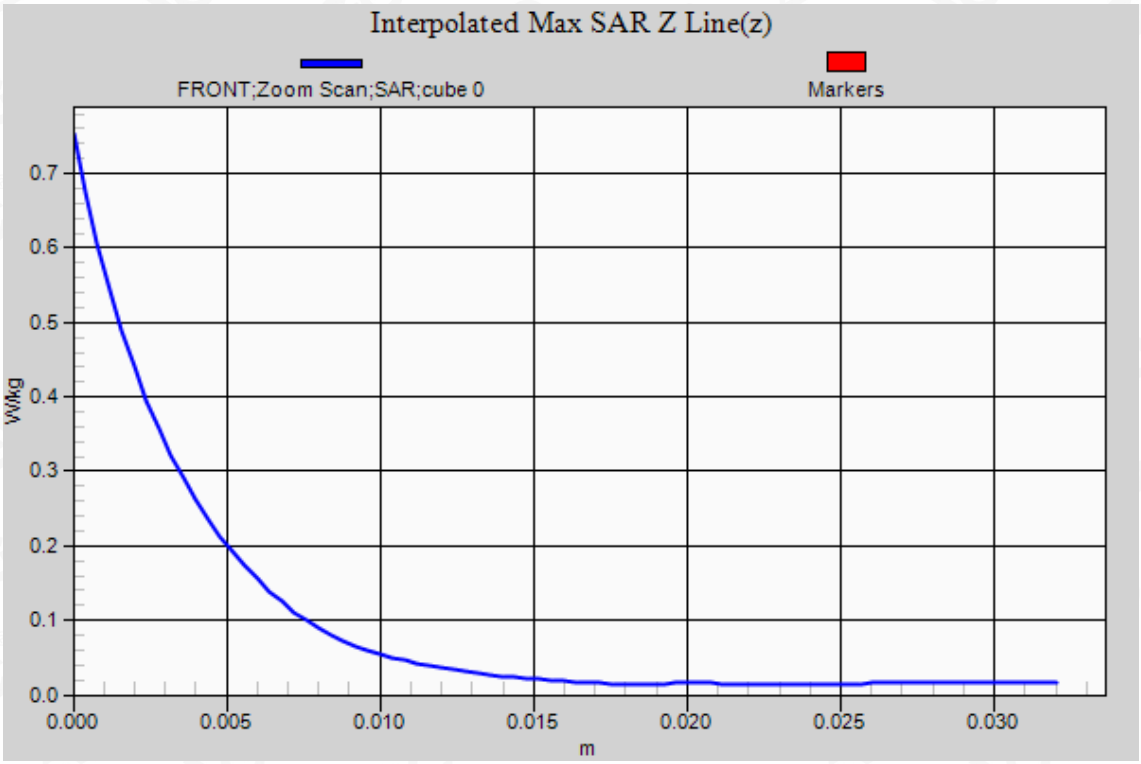
**Test Laboratory: AGC Lab** **Date: Nov. 26, 2021**
**5.2GHz -802.11a CH40- Mid-Body- Front (Top)**
**DUT: Brama S-C; Type: M1**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1
Frequency: 5200 MHz; Medium parameters used: f = 5250MHz; σ =4.73 mho/m; εr =35.08; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/FRONT/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.387 W/kg
**BODY/FRONT/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.565 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.753 W/kg
**SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.103 W/kg**
Maximum value of SAR (measured) = 0.439 W/kg



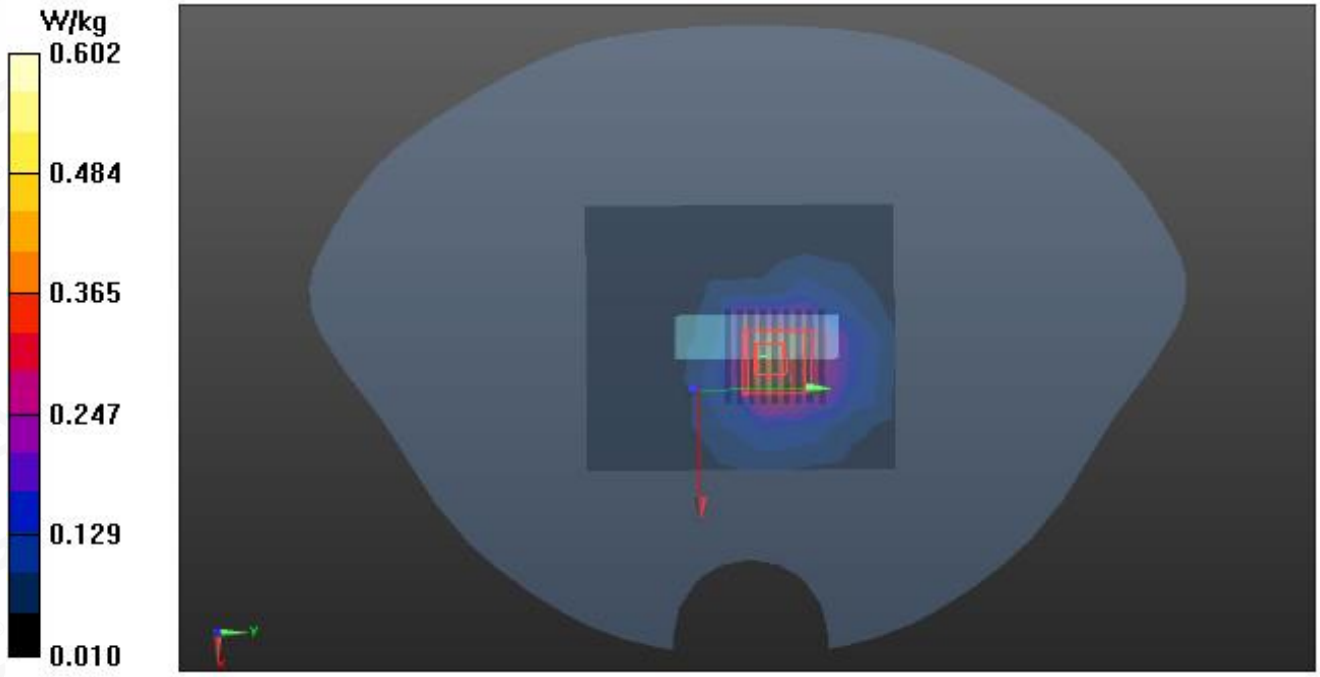


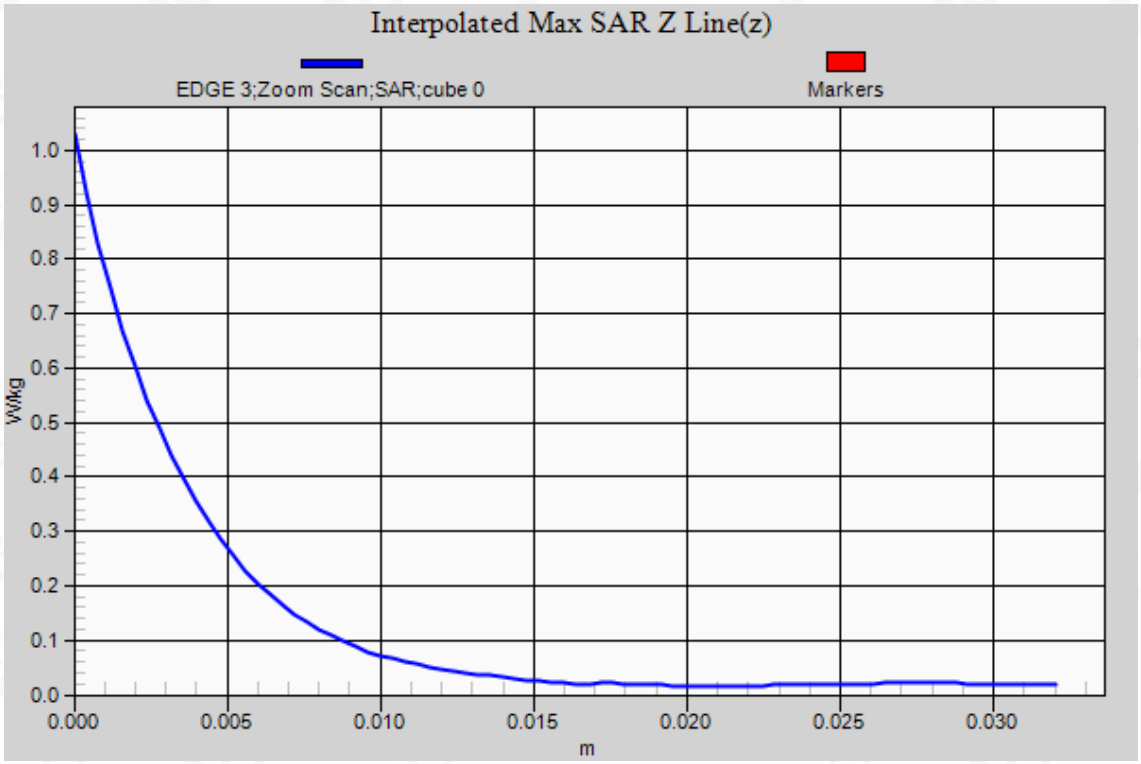
**Test Laboratory: AGC Lab** **Date: Nov. 27, 2021**
**5.8GHz -802.11a- CH157- Mid-Edge3**
**DUT: Brama S-C; Type: M1**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1
Frequency: 5785 MHz; Medium parameters used: f = 5750 MHz; σ=5.23 mho/m; εr =36.17; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.9, Liquid temperature (℃): 21.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE 3/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.446 W/kg
**BODY 3/EDGE 3/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.830 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.03 W/kg
**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.137 W/kg**
Maximum value of SAR (measured) = 0.602 W/kg



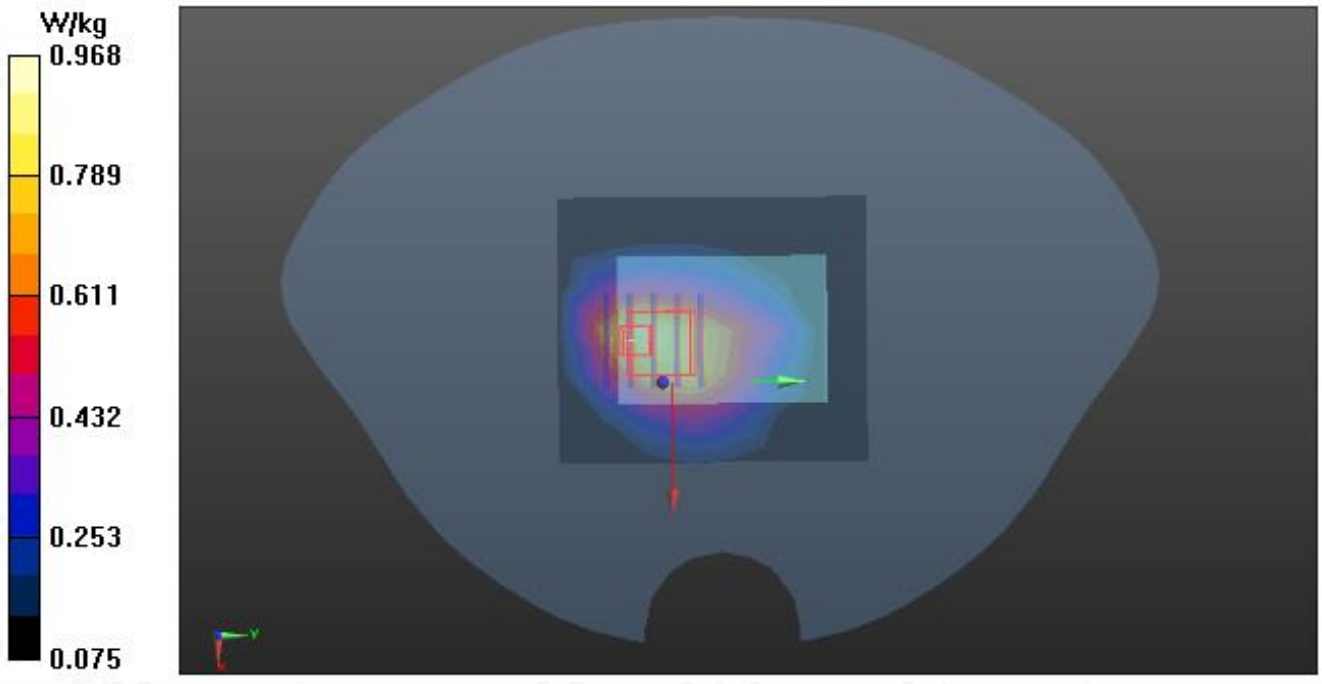


**Repeated SAR**
**Test Laboratory: AGC Lab** **Date: Nov. 22, 2021**
**GPRS 850 High- Body- Back (2up) < SIM 1>**
**DUT: Brama S-C; Type: M1**

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2;
Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 41.18; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/Repeated/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.893 W/kg
**BODY/Repeated/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.280 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.19 W/kg
**SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.610 W/kg**
Maximum value of SAR (measured) = 0.968 W/kg

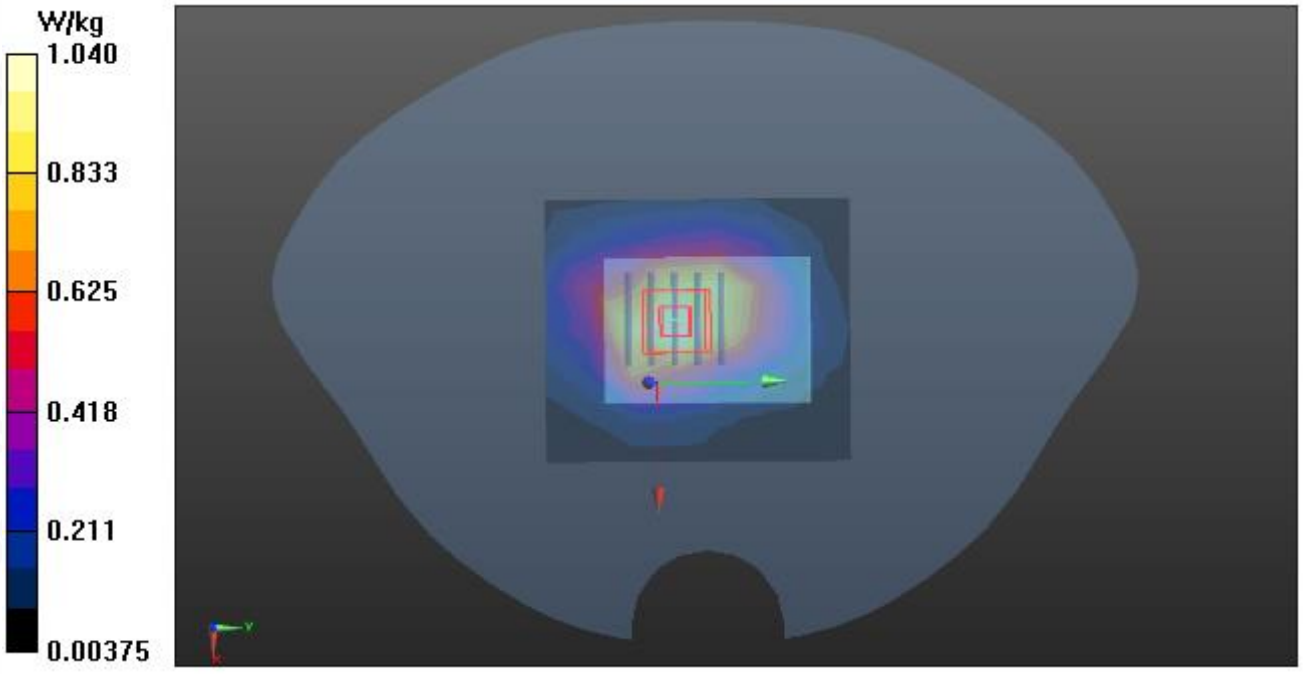


**Test Laboratory: AGC Lab** **Date: Nov. 02, 2021**
**GPRS 1900 Mid-Body- Back (2up) < SIM 1>**
**DUT: Brama S-C; Type: M1**

Communication System: GPRS-2 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.36 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK -Repeated/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.15 W/kg
**BODY/BACK -Repeated/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.045 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.47 W/kg
**SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.491 W/kg**
Maximum value of SAR (measured) = 1.04 W/kg

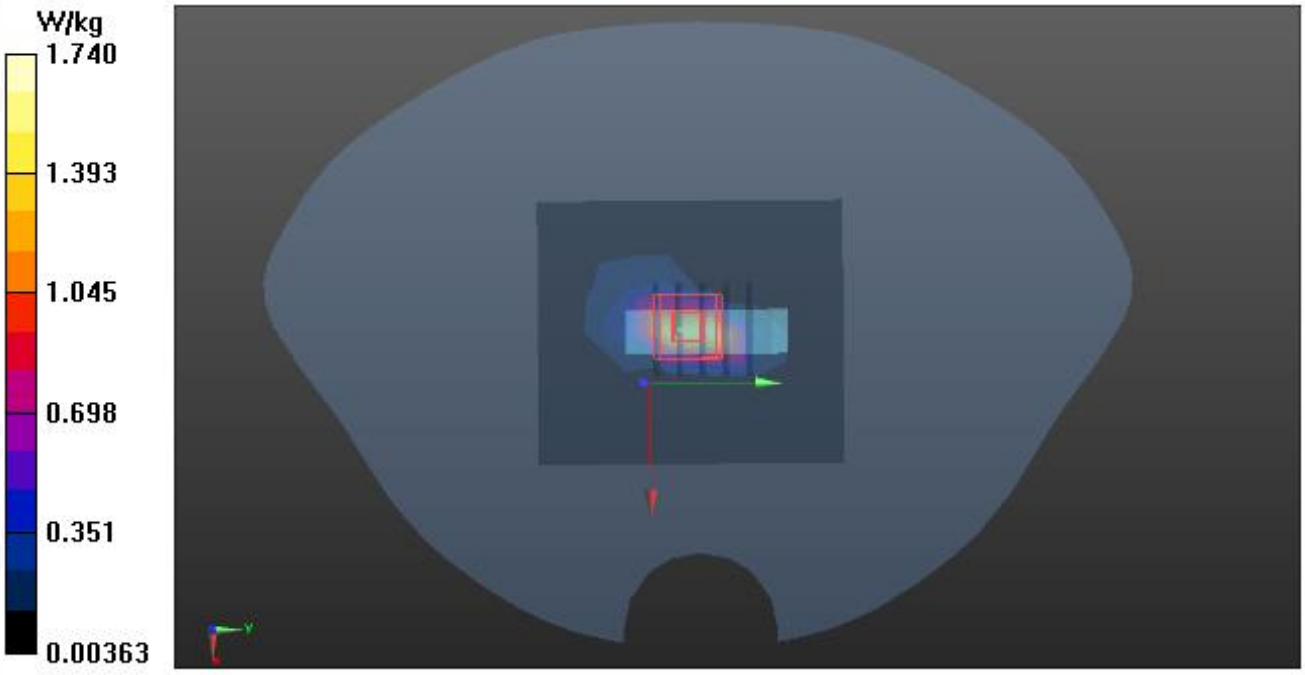


**Test Laboratory: AGC Lab** **Date: Nov. 02, 2021**
**WCDMA Band II Low-Edge 1**
**DUT: Brama S-C; Type: M1**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;
Frequency: 1852.4 MHz; Medium parameters used: f = 1900 MHz; σ=1.35 mho/m; εr =40.64; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE1-L-REPEATED/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.64 W/kg
**BODY 3/EDGE1-L-REPEATED/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.325 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.65 W/kg
**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.463 W/kg**
Maximum value of SAR (measured) = 1.74 W/kg

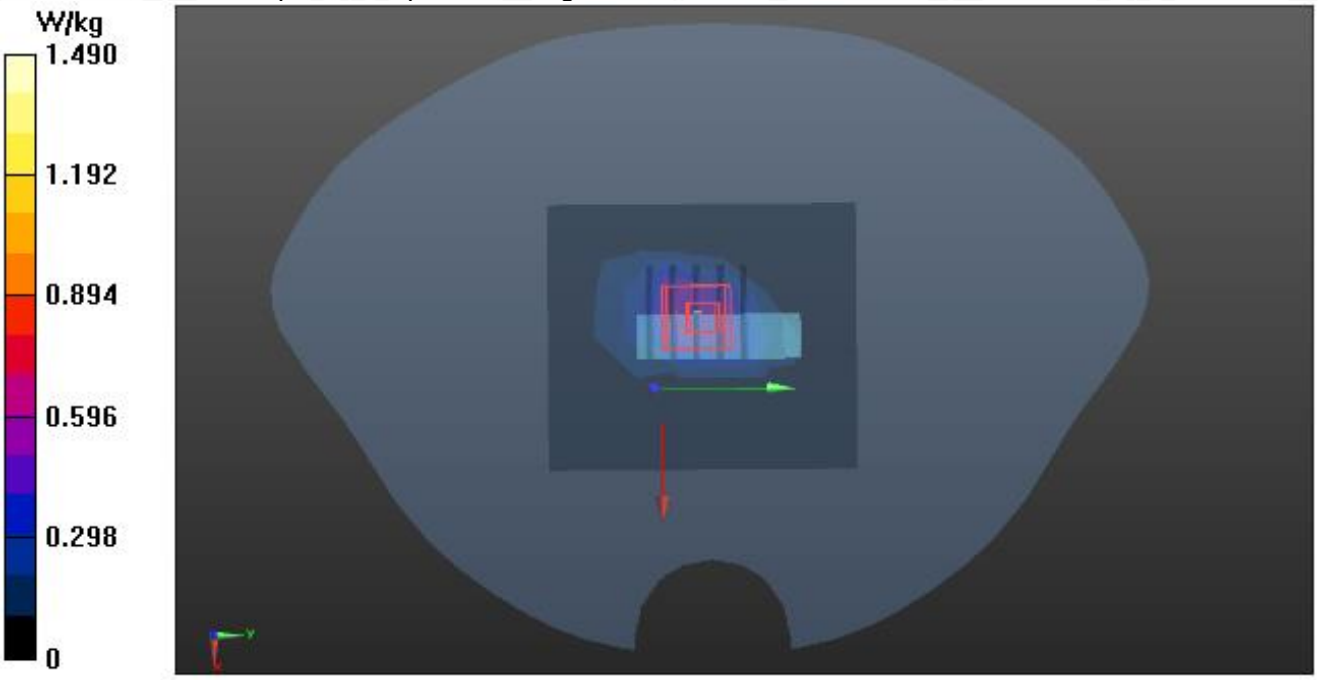


**Test Laboratory: AGC Lab** **Date: Nov. 03, 2021**
**WCDMA Band IV Mid- Edge 1**
**DUT: Brama S-C; Type: M1**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD;Duty Cycle:1:1;
Frequency: 1732.4 MHz; Medium parameters used: f = 1800 MHz; $\sigma$= 1.35 mho/m; $\varepsilon_r$ =40.25; $\rho$= 1000 kg/m$^3$ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY 3/EDGE 1-REPEATED/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.621 W/kg
**BODY 3/EDGE 1-REPEATED/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.898 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 2.37 W/kg
**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.409 W/kg**
Maximum value of SAR (measured) = 1.49 W/kg

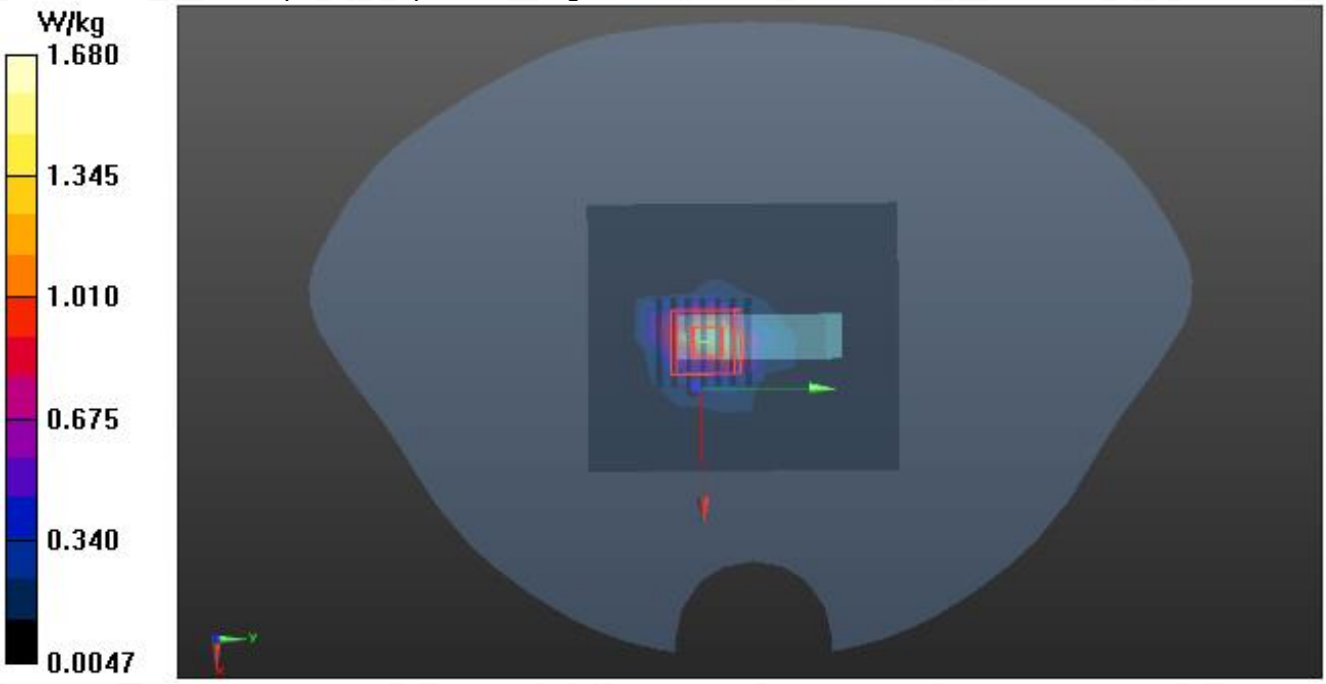


**Test Laboratory: AGC Lab** **Date: Nov. 01, 2021**
**LTE Band 7 Low-Body- Edge 1 (1RB#0)**
**DUT: Brama S-C; Type: M1**

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2510MHz; Medium parameters used: f =2600 MHz; σ=1.88 mho/m; εr =39.74; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.42, 7.42, 7.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

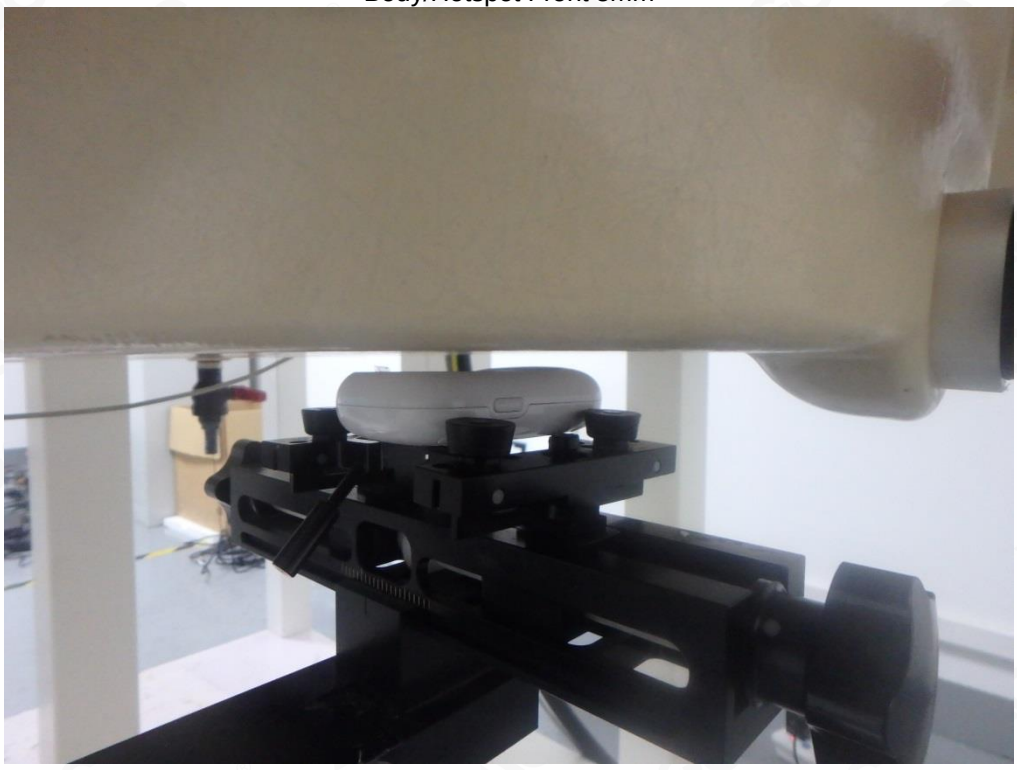
**BODY 3/EDGE-repeated-1/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.70 W/kg
**BODY 3/EDGE-repeated-1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.787 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 3.01 W/kg
**SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.443 W/kg**
Maximum value of SAR (measured) = 1.68 W/kg



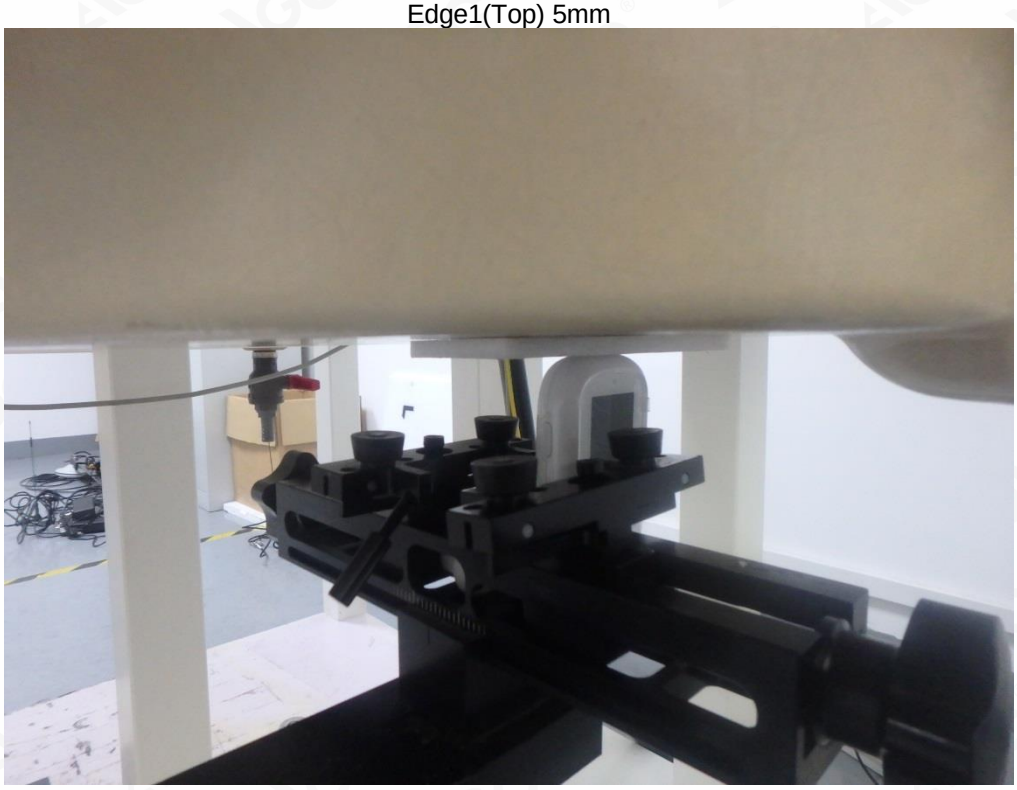
# APPENDIX C. TEST SETUP PHOTOGRAPHS

Body/Hotspot Back 5mm


Body/Hotspot Front 5mm



Edge1(Top) 5mm



Edge2(Right) 5mm