

## APPENDIX A: SAR TEST PLOTS

# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: FYW64**

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2462.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2462.0 MHz; cond = 1.88 S/m; perm = 39.8; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/20/2024; Ambient Temp: 21.5°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7638; ConvF:(7.38,7.72,7.8); Calibrated: 2024-03-11

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1408; Calibrated: 2024-03-06

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 2.4 GHz WIFI/ IEEE 802.11b, Antenna WF8, 22 MHz Bandwidth,  
Variant 1, Exp: Body| Top Edge, Ch. 11, 1 Mbps**

**Area Scan (40.0 x 180.0):** Measurement grid: dx=5.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

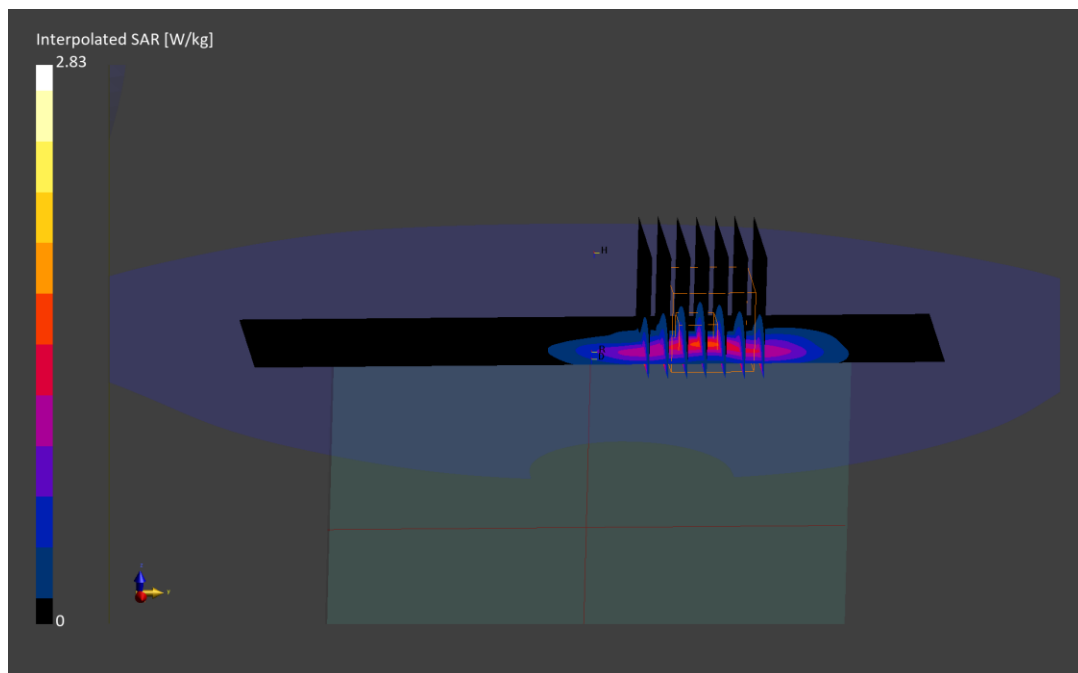
Reference Value = 1.44 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.83 W/kg

**SAR(1 g) = 1.12 W/kg**

Smallest distance from peaks to all points 3 dB below is 7.0 mm

Ratio of SAR at M2 to SAR at M1 = 74.7 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: 2GVGG**

Communication System: UID:10544 - AAD, WLAN; MAIA: Y; Frequency: 5775.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5775.0$  MHz;  $\text{cond} = 5.25$  S/m;  $\text{perm} = 35.2$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/20/2024; Ambient Temp: 20.7°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN3746; ConvF:(4.59,4.59,4.59); Calibrated: 2023-10-16

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: Twin-SAM V8.0; Serial: 2027

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna WF2, 80 MHz Bandwidth, U-NII-3,  
Variant 2, Exp: Body| Bottom Edge, Ch. 155, 29.3 Mbps**

**Area Scan (40.0 x 180.0):** Measurement grid:  $dx=5.0$  mm,  $dy=10.0$  mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

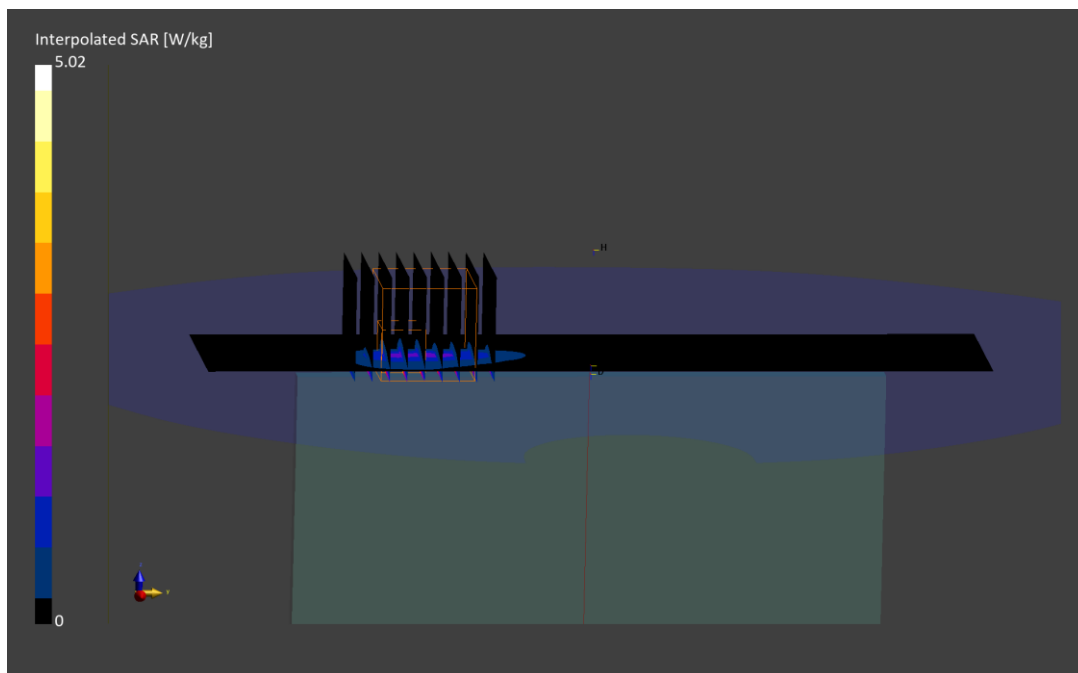
Reference Value = 0.95 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.02 W/kg

**SAR(1 g) = 1.05 W/kg**

Smallest distance from peaks to all points 3 dB below is 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.5 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: 9R4T3**

Communication System: UID:10755 - AAC, WLAN; MAIA: Y; Frequency: 6665.0 MHz

Medium: 6500 Head; Medium parameters used:

f = 6665.0 MHz; cond = 6.12 S/m; perm = 34.7; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/28/2024; Ambient Temp: 21.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF:(5.21,5.12,5.28); Calibrated: 2023-10-16

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1333; Calibrated: 2023-10-18

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 6 GHz WIFI/ IEEE 802.11ax, Antenna WF2, 160 MHz Bandwidth, U-NII-7,  
Variant 2, Exp: Body| Bottom Edge, Ch. 143, 68.1 Mbps**

**Area Scan (40.0 x 170.0):** Measurement grid: dx=5.0 mm, dy=8.5 mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

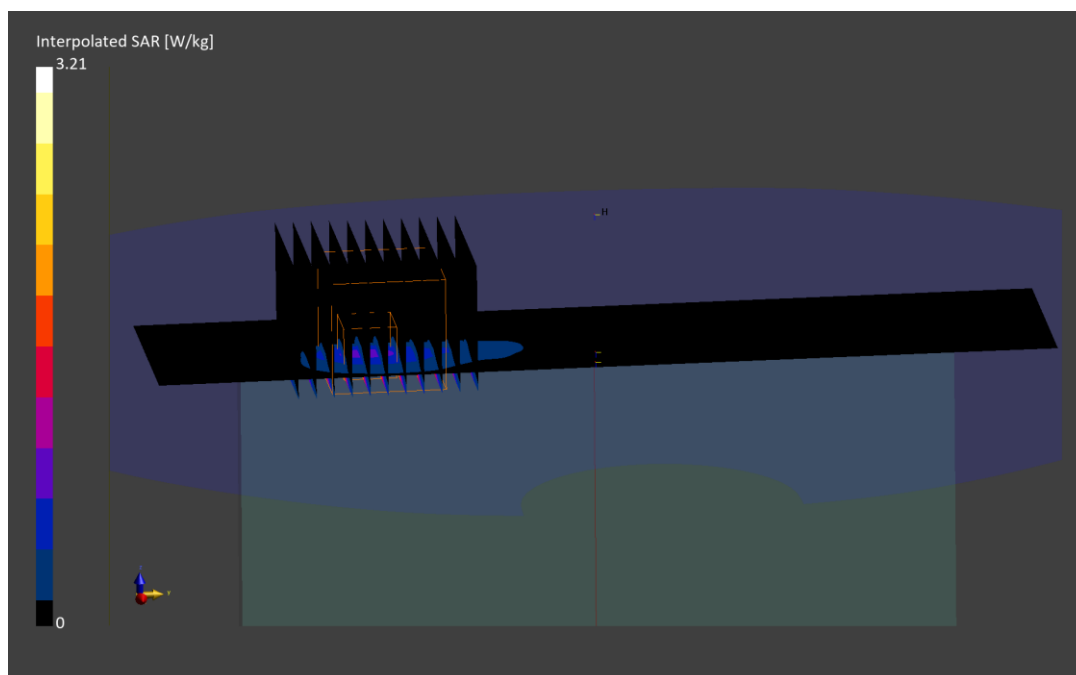
Reference Value = 1.04 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.21 W/kg

**SAR(1 g) = 0.664 W/kg; APD(4cm<sup>2</sup>) = 4.75 W/m<sup>2</sup>**

Smallest distance from peaks to all points 3 dB below is 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.4 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: FPMT2**

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2402.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2402.0$  MHz;  $\text{cond} = 1.72$  S/m;  $\text{perm} = 40.0$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/26/2024; Ambient Temp: 22.5°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7682; ConvF:(7.87,7.72,8.18); Calibrated: 2024-05-13

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1683; Calibrated: 2024-05-08

Phantom: Twin-SAM V8.0; Serial: 1917

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 2.4 GHz Bluetooth, Antenna WF8, Variant 2,  
Exp: Body| Top Edge, Ch. 0, 1 Mbps**

**Area Scan (40.0 x 180.0):** Measurement grid:  $dx=5.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

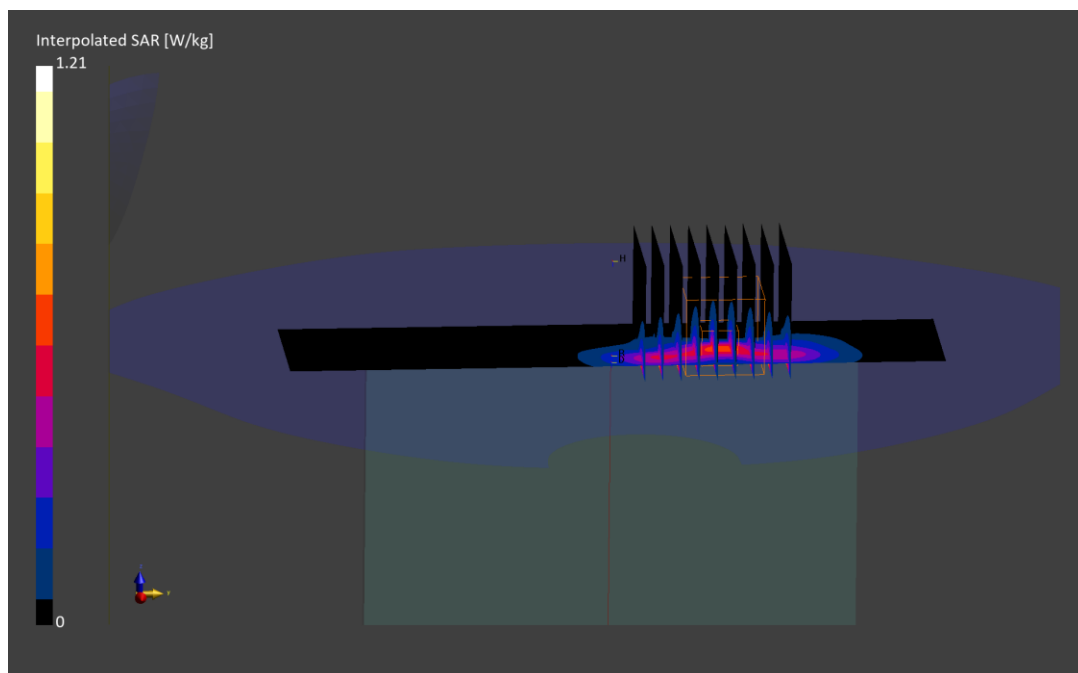
Reference Value = 0.53 W/kg; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.493 W/kg**

Smallest distance from peaks to all points 3 dB below is 6.0 mm

Ratio of SAR at M2 to SAR at M1 = 75.3 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: X6FW6**

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 2475.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2475.0 MHz; cond = 1.91 S/m; perm = 38.8; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/22/2024; Ambient Temp: 21.0°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7638; ConvF:(7.38,7.72,7.8); Calibrated: 2024-03-11

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1408; Calibrated: 2024-03-06

Phantom: Twin-SAM V8.0; Serial: 1935

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: 802.15.4, Antenna WF8, Variant 2, Exp: Body| Top Edge, Ch. 25, 1 Mbps**

**Area Scan (40.0 x 180.0):** Measurement grid: dx=5.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

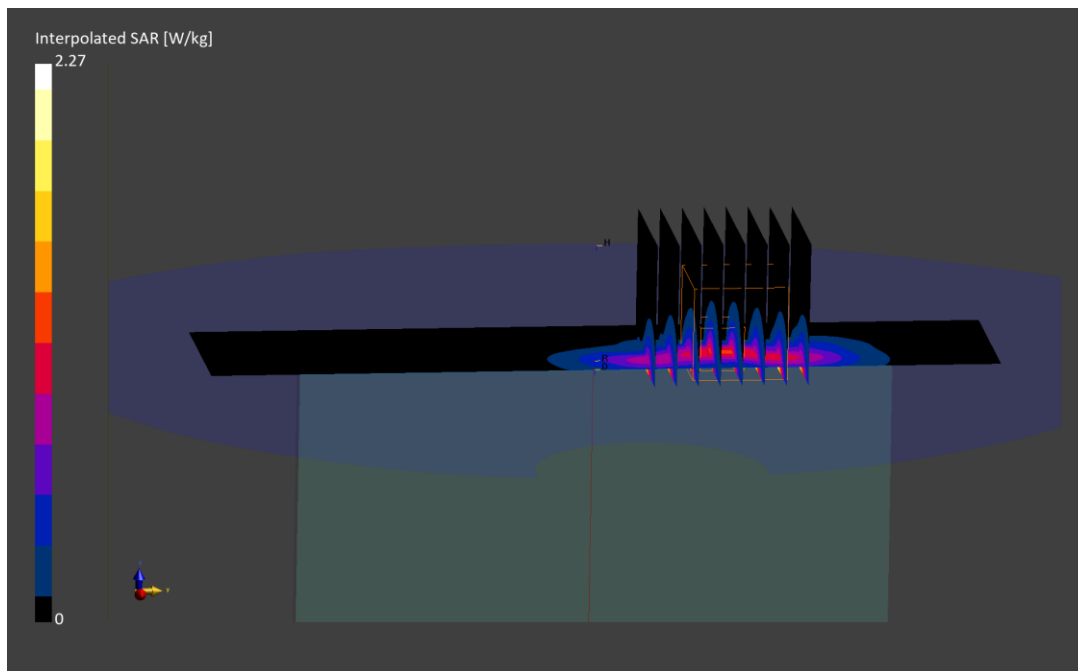
Reference Value = 1.10 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.27 W/kg

**SAR(1 g) = 0.899 W/kg**

Smallest distance from peaks to all points 3 dB below is 7.0 mm

Ratio of SAR at M2 to SAR at M1 = 74.3 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: X6FW6**

Communication System: UID:10032 - CAA, CW; MAIA: Y; Frequency: 5844.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

$f = 5844.0$  MHz;  $\text{cond} = 5.20$  S/m;  $\text{perm} = 33.7$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/27/2024; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7427; ConvF:(4.04,4.57,4.63); Calibrated: 2024-02-09

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn467; Calibrated: 2024-02-09

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: NB U-NII 3, Antenna WF5T, Variant 2,  
Exp: Body| Right Edge, Ch. High, 1 Mbps**

**Area Scan (40.0 x 240.0):** Measurement grid:  $dx=5.0$  mm,  $dy=10.0$  mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

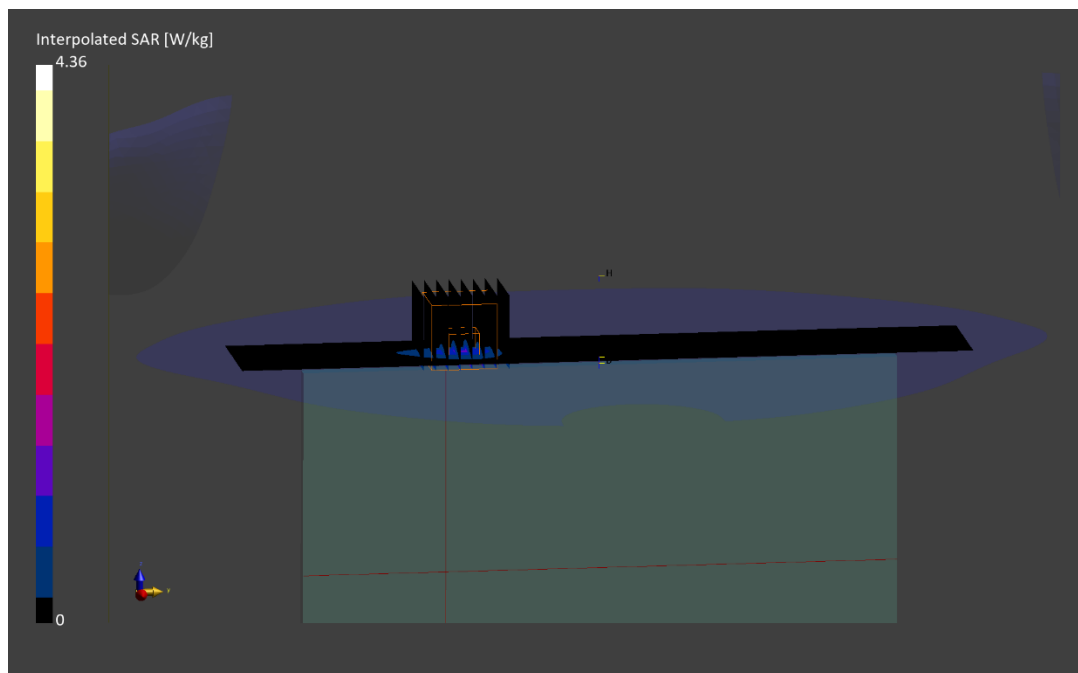
Reference Value = 0.50 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.36 W/kg

**SAR(1 g) = 0.886 W/kg**

Smallest distance from peaks to all points 3 dB below is 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.6 %



# ELEMENT

**DUT: BCGA2993; Type: Tablet Device; Serial: VXP7G**

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 13.6 MHz

Medium: 13 Head; Medium parameters used:

$f = 13.6$  MHz;  $\text{cond} = 0.722$  S/m;  $\text{perm} = 52.8$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 6/22/2024; Ambient Temp: 21.0°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3746; ConvF:(16.19,16.19,16.19); Calibrated: 2023-10-16

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1237; Calibrated: 2023-10-18

Phantom: ELI V6.0; Serial: 2003

Measurement SW: DASY Module SAR V16.2.4.2524

**Mode: wPT, Body SAR, Back Side**

**Area Scan (180.0 x 240.0):** Measurement grid:  $dx=15.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid:  $dx=2.6$  mm,  $dy=2.6$  mm,  $dz=1.2$  mm; Graded Ratio: 1.2

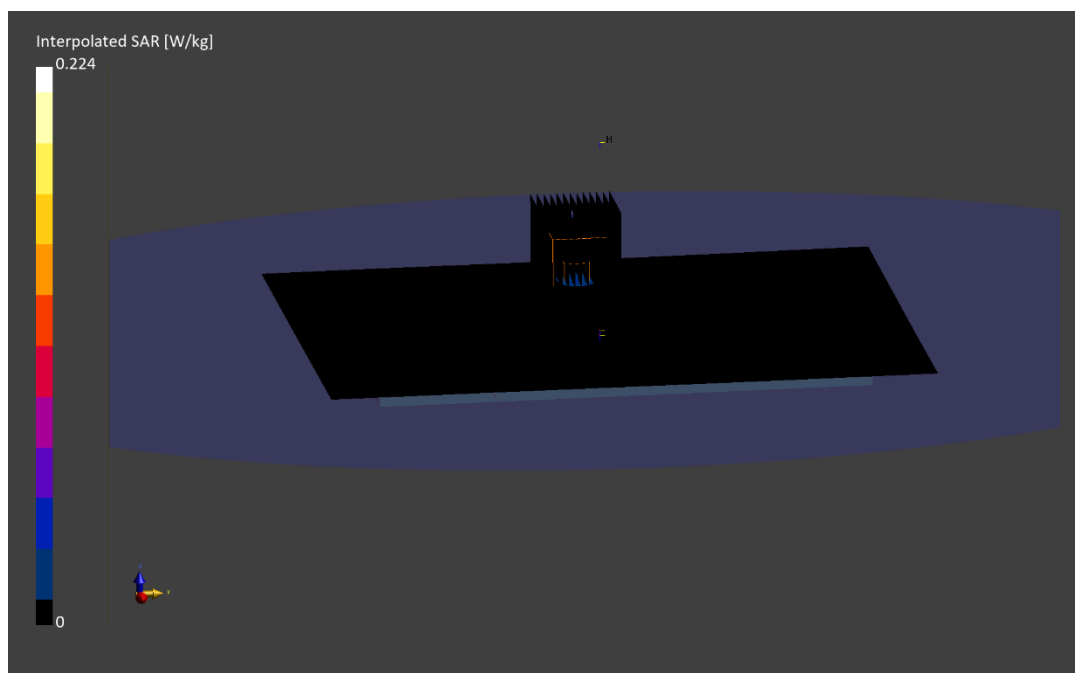
Reference Value = 0.01 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.224 W/kg

**SAR(1 g) = 0.023 W/kg**

Smallest distance from peaks to all points 3 dB below is 4.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.0 %



ELEMENT

Date: 06/12/2024

Antenna WF5T; Variant 1; Channel 207; 802.11ax

Device Under Test Properties

|          |               |               |
|----------|---------------|---------------|
| DUT      | Serial Number | DUT Type      |
| BCGA2993 | 7X2QW         | Tablet Device |

Exposure Conditions

|                 |            |                    |         |            |                 |
|-----------------|------------|--------------------|---------|------------|-----------------|
| Phantom Section | Position   | Test Distance [mm] | Channel | Group, UID | Frequency [MHz] |
| 5G              | EDGE RIGHT | 2.00               | 207     | 10755      | 6985.0          |

Hardware Setup

|                              |                          |
|------------------------------|--------------------------|
| Probe, Calibration Date      | DAE, Calibration Date    |
| EUmmWV3 – SN9407, 10/09/2023 | DAE4 – SN793, 10/18/2023 |

Software Setup

|                      |                  |
|----------------------|------------------|
| Software             | Software Version |
| cDASY6 Module mmWave | 3.2.0.1840       |

Scans Setup

|                     |               |
|---------------------|---------------|
| Scan Type           | 5G Scan       |
| Grid Extents [mm]   | 60.0 x 60.0   |
| Grid Steps [lambda] | 0.041 x 0.041 |
| Sensor Surface [mm] | 2.0           |

Measurement Results

|                              |         |
|------------------------------|---------|
| Scan Type                    | 5G Scan |
| Avg. Area [cm²]              | 4.00    |
| pS <sub>tot</sub> avg [W/m²] | 4.11    |
| pS <sub>n</sub> avg [W/m²]   | 3.65    |
| E <sub>peak</sub> [V/m]      | 62.0    |
| Power Drift [dB]             | -0.03   |

