

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: QJQY2

Communication System: UID:10415 - AAA, WLAN; MAIA: Y; Frequency: 2462.000 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2462.000$ MHz; $\text{cond} = 1.88$ S/m; $\text{perm} = 38.0$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 11/29/2023; Ambient Temp: 22.1°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7546; ConvF:(7.29,7.29,7.29); Calibrated: 2023-04-14

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

Electronics: DAE4 Sn1402; Calibrated: 2023-04-14

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 WF7b, Variant 2, 22 MHz Bandwidth, Exp:
Body| Top Edge, Ch. 11, 1Mbps**

Area Scan (60.0 x 200.0): 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

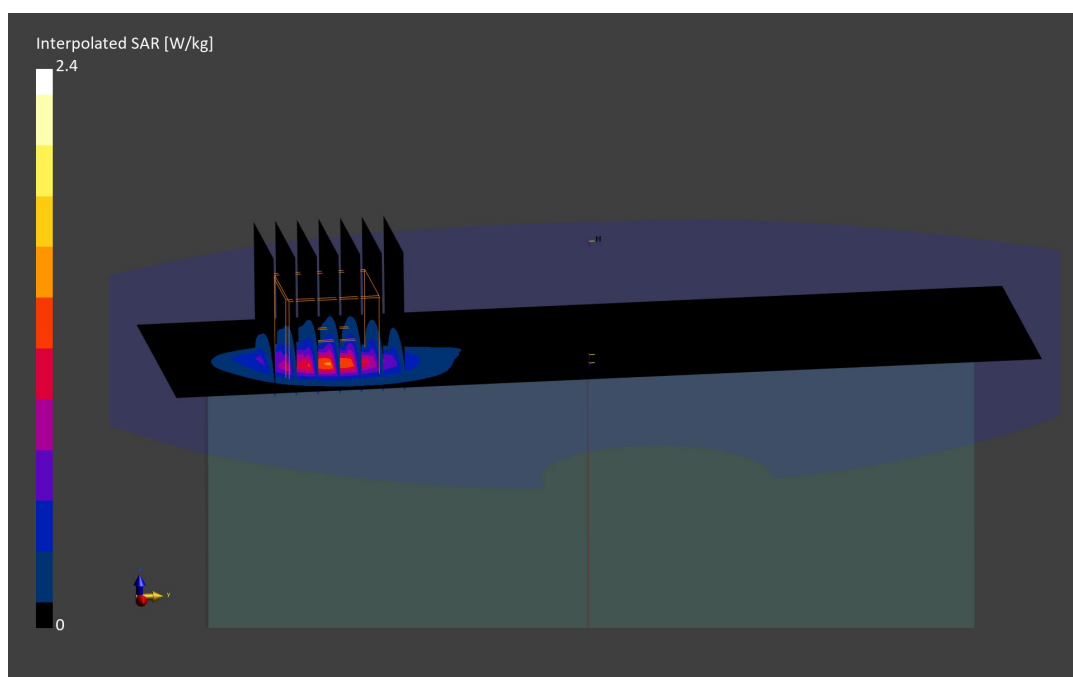
Reference Value = 1.27 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 1.00 W/kg

Smallest distance from peaks to all points 3 dB below is 9.0 mm

Ratio of SAR at M2 to SAR at M1 = 75.6 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: QJQY2

Communication System: UID:10544 - AAC, WLAN; MAIA: Y; Frequency: 5610.0 MHz

Medium: 5200-5800 Head; Medium parameters used:

f = 5610.0 MHz; cond = 4.88 S/m; perm = 34.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 12/26/2023; Ambient Temp: 20.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN3746; ConvF:(4.45,4.45,4.45); 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 V16.2.0.1425

Mode: 5 GHz WIFI/ IEEE 802.11ac, Antenna WF7a, Variant 2, 80 MHz Bandwidth, U-NII-2C, Exp: Body| Top Edge, Ch. 122, 29.3 Mbps

Area Scan (40.0 x 220.0): 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

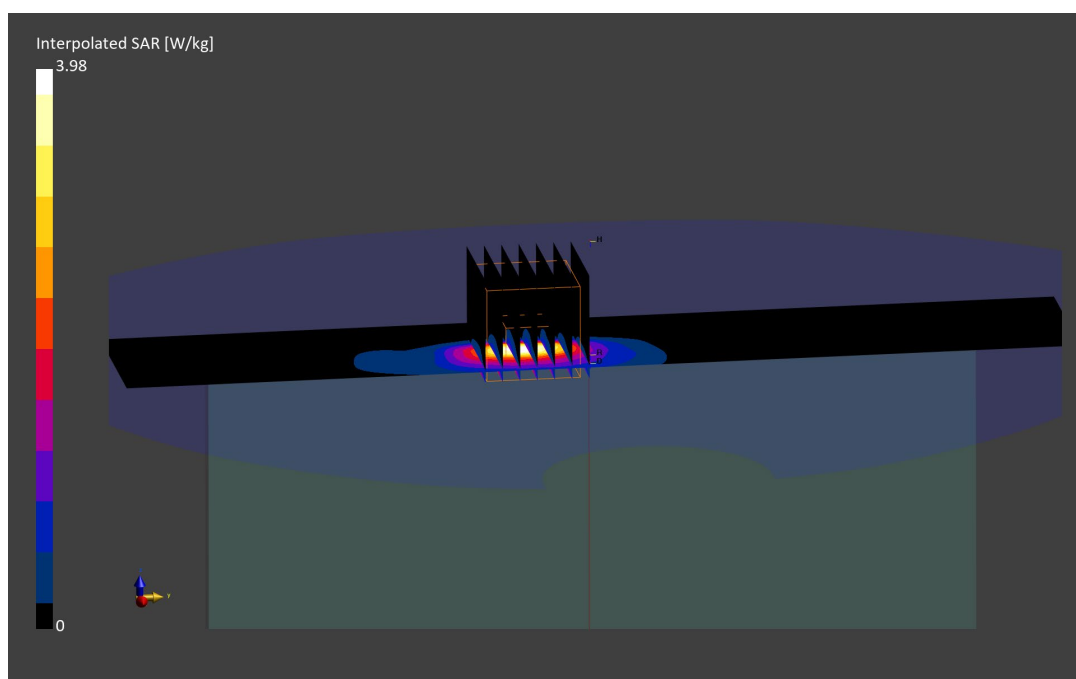
Reference Value = 0.81 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 0.984 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 = 60.5 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: W7W3T

Communication System: UID:10755 - AAC, WLAN; MAIA: Y; Frequency: 6505.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6505.0$ MHz; $\text{cond} = 6.07$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 12/03/2023; Ambient Temp: 21.7°C; Tissue Temp: 21.5°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 V16.2.0.1425

Mode: 6 GHz WIFI/ IEEE 802.11ax, Antenna WF7a, Variant 1, 160 MHz Bandwidth, U-NII-6, Exp: Body| Top Edge, Ch. 111, 68.1 Mbps

Area Scan (40.0 x 221.0): 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

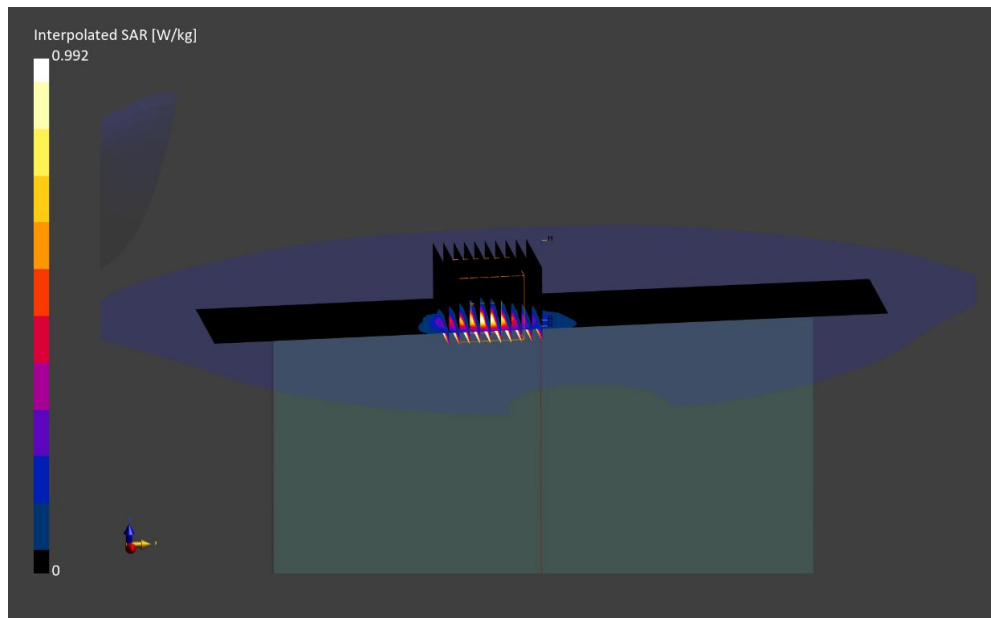
Reference Value = 1.08 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.38 W/kg

SAR(1 g) = 0.839 W/kg; APD(4cm²) = 5.62 W/m²

Smallest distance from peaks to all points 3 dB below is 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 48.9 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: MJFXK

Communication System: UID:10032 - CAA, Bluetooth; MAIA: Y; Frequency: 2480.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2480.0$ MHz; $\text{cond} = 1.79$ S/m; $\text{perm} = 40.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 11/29/2023; Ambient Temp: 21.2°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7421; ConvF:(7.45,7.45,7.45); Calibrated: 2023-03-16

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

Electronics: DAE4 Sn604; Calibrated: 2023-03-15

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

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: 2.4 GHz Bluetooth, Antenna WF8, Variant 1, Exp: Body| Top Edge, Ch. 78, 1 Mbps

Area Scan (40.0 x 220.0): 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

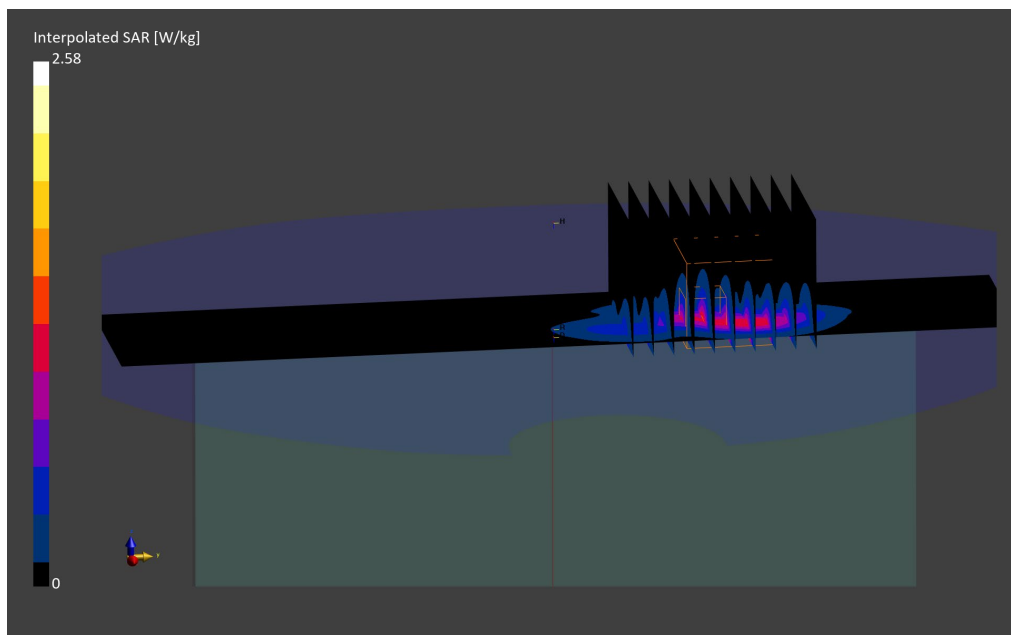
Reference Value = 1.17 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 0.987 W/kg

Smallest distance from peaks to all points 3 dB below is 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 74.0 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: 3YN4Y

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

Medium: 2450 Head; Medium parameters used:

$f = 2475.0$ MHz; $\text{cond} = 1.76$ S/m; $\text{perm} = 38.5$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 02/26/2024; Ambient Temp: 20.3°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF:(7.27,7.27,7.27); Calibrated: 2023-05-08

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

Electronics: DAE4 Sn701; Calibrated: 2023-05-11

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: 802.15.4, Antenna WF8, Variant 1, 22 MHz Bandwidth, Exp: Body| Top Edge, Ch. 25,
0.25 Mbps**

Area Scan (40.0 x 220.0): Measurement grid: $dx=5.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=4.6$ mm, $dy=4.6$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

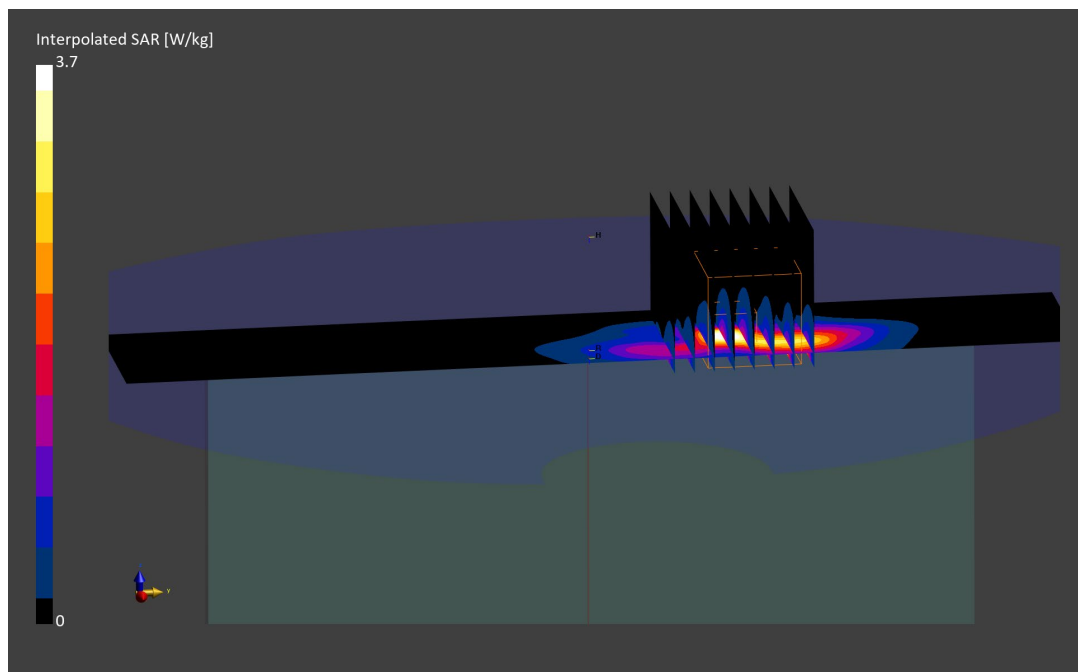
Reference Value = 1.27 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 1.30 W/kg

Smallest distance from peaks to all points 3 dB below is 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 72.0 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: W7W3T

Communication System: UID:10032 - CAA, CW; MAIA: Y; Frequency: 5844.0 MHz
Medium: 5200-5800 Head; Medium parameters used:
 $f = 5844.0$ MHz; $\text{cond} = 5.16$ S/m; $\text{perm} = 33.9$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 0.00 mm

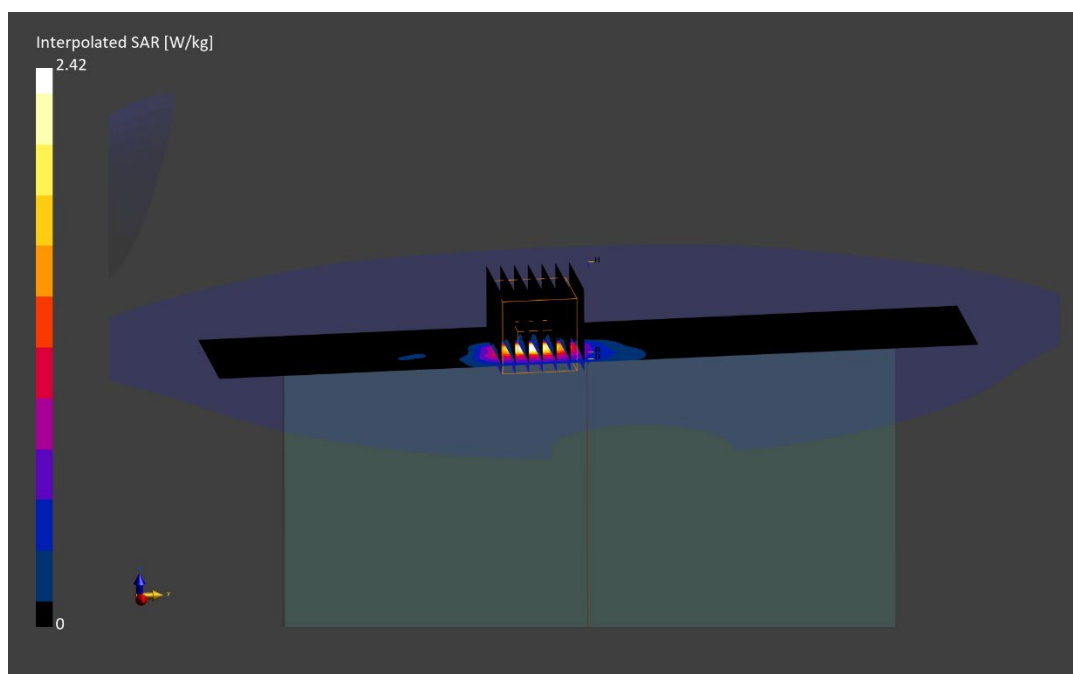
Test Date: 12/14/2023; Ambient Temp: 20.4°C; Tissue Temp: 19.3°C

Probe: EX3DV4 - SN3746; ConvF:(4.5,4.5,4.5); 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 V16.2.0.1425

Mode: NB U-NII 3, Antenna WF7a, Variant 1, Exp: Body| Top Edge, Ch. High, 1 Mbps

Area Scan (40.0 x 220.0): 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 = 0.47 W/kg; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.42 W/kg
SAR(1 g) = 0.547 W/kg
Smallest distance from peaks to all points 3 dB below is 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 57.9 %



ELEMENT

DUT: BCGA2902; Type: Portable Tablet; Serial: HHF20

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

Medium: 30 Head; Medium parameters used:

$f = 13.6$ MHz; $\text{cond} = 0.725$ S/m; $\text{perm} = 53.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 01/02/2024; Ambient Temp: 21.2°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7360; ConvF:(17.98,17.98,17.98); Calibrated: 2023-03-16

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn534; Calibrated: 2023-03-15

Phantom: ELI V6.0; Serial: 2044

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NFC, Body SAR, Back Side

Area Scan (210.0 x 300.0): 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

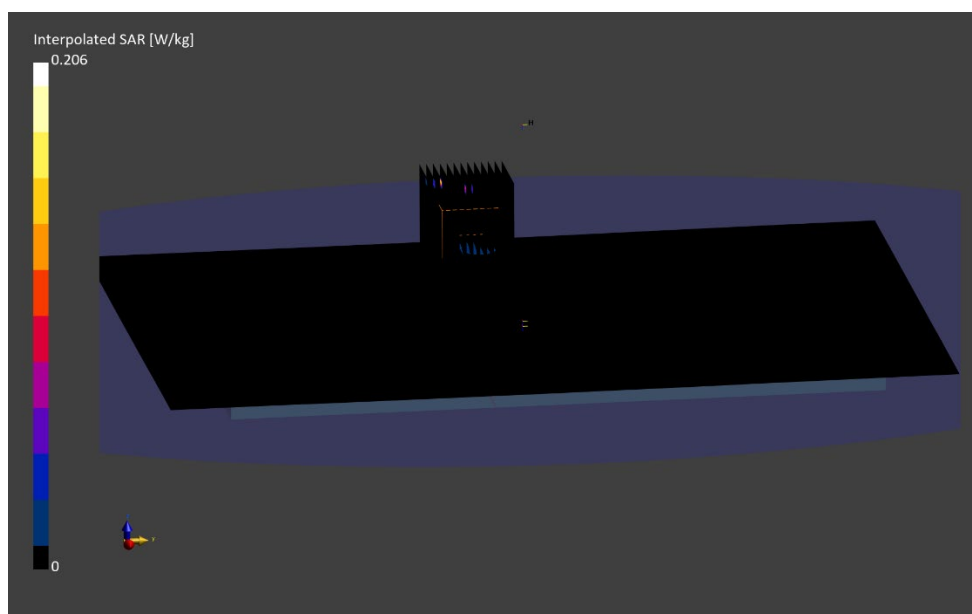
Reference Value = 0.01 W/kg; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.030 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 = 53.3 %



ELEMENT

Date: 11/28/2023
Antenna WF7a; Variant 1; Channel 111; 802.11ax

Device Under Test Properties

DUT	Serial Number	DUT Type
BCGA2902	LM6K6W7W3T	Portable Tablet

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	EDGE TOP	2.00	111	WLAN, 10755	6505.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 – SN9523_F1–55GHz, 01/16/2023	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]	0.25 x 0.25
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	4.26
pS _n avg [W/m²]	3.99
E _{peak} [V/m]	78.6
Power Drift [dB]	-0.11

