

APPENDIX B: SYSTEM VERIFICATION PLOTS

ELEMENT

DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1018

Communication System: UID: 0, CW; Frequency: 6500.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.0 MHz; cond = 6.05 S/m; perm = 34.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 06/29/2023; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7718; ConvF:(5.15,5.15,5.15); Calibrated: 2023-04-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2023-04-14
Phantom: Twin-SAM V5.0; Serial: 1759
Measurement SW: DASY Module SAR V16.2.0.1425

6500.0 MHz System Verification at 14.0 dBm (25 mW)

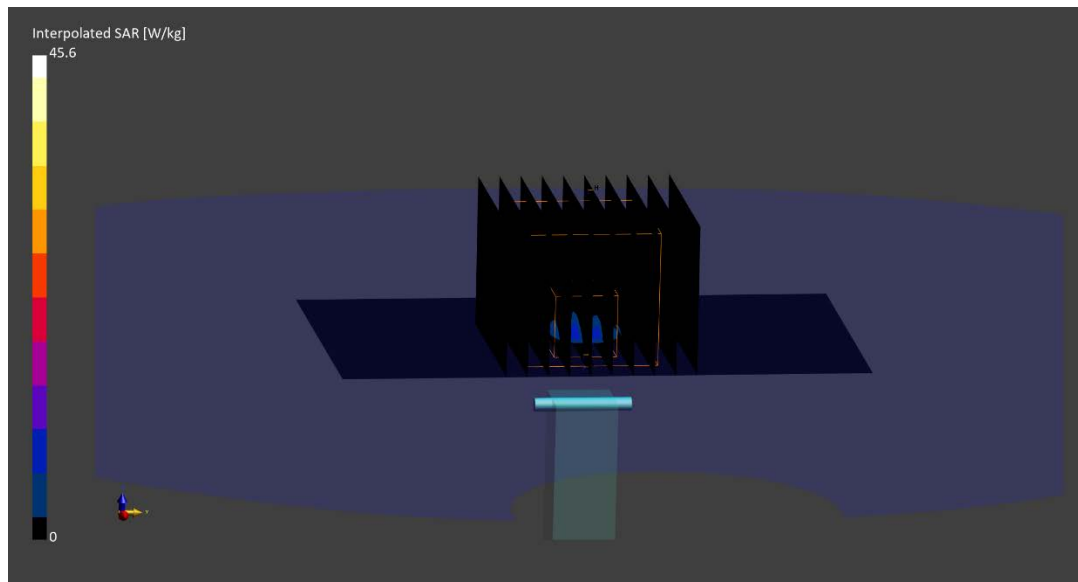
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

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

Peak SAR (extrapolated) = 45.6 W/kg

SAR(1 g) = 7.19 W/kg; SAR(10 g) = 1.33 W/kg, APD(4cm²) = 32.4 W/m²

Deviation (1 g) = -1.84%; Deviation (10 g) = -1.66%; Deviation (4cm²) = -1.07%



ELEMENT

DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1018

Communication System: UID: 0, CW; Frequency: 6500.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.0 MHz; cond = 6.11 S/m; perm = 33.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 07/10/2023; Ambient Temp: 23.0°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7718; ConvF:(5.15,5.15,5.15); Calibrated: 2023-04-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1368; Calibrated: 2023-04-14
Phantom: Twin-SAM V5.0; Serial: 1759
Measurement SW: DASY Module SAR V16.2.0.1425

6500.0 MHz System Verification at 14.0 dBm (25 mW)

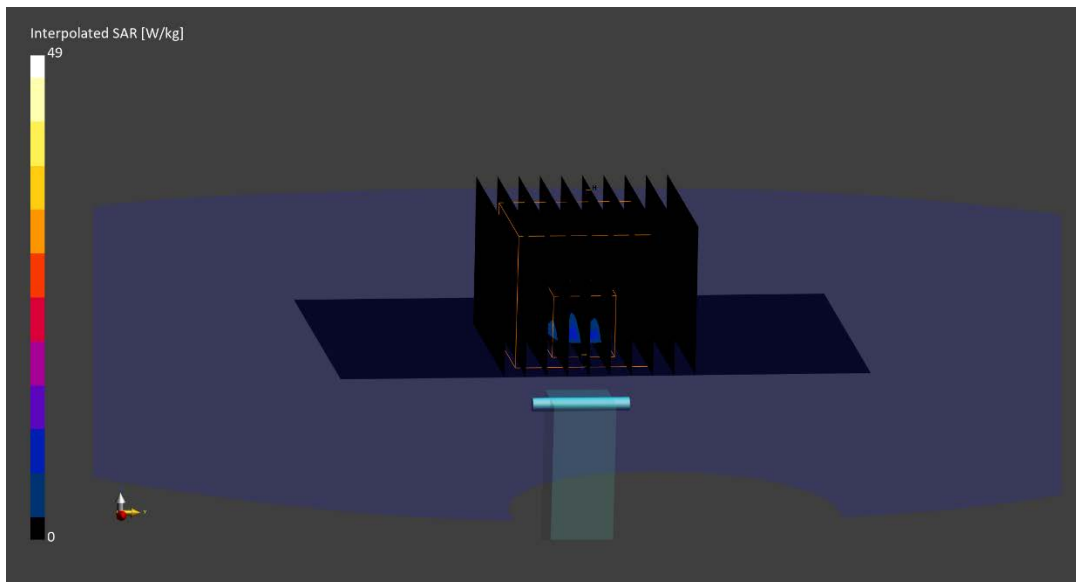
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

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

Peak SAR (extrapolated) = 49.0 W/kg

SAR(1 g) = 7.01 W/kg; SAR(10 g) = 1.26 W/kg, APD(4cm²) = 30.7 W/m²

Deviation (1 g) = -4.30%; Deviation (10 g) = -6.84%; Deviation (4cm²) = -6.26%



Date: 2023-06-28

10 GHz System Verification

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1004

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	CW	10000.0

Hardware/Software Setup

Probe, Calibration Date	DAE, Calibration Date	Software	Software Version
EUmWV3 - SN9407, 2022-10-17	DAE4ip - SN1638, 2022-10-13	cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	49.5
pS _n avg [W/m ²]	49.3
E _{peak} [V/m]	143
Deviation [dB] pS _{tot}	0.01
Deviation [dB] pS _n	-0.01

