element

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 6500.000 MHz; Type: D6.5GHzV2 - SN1019

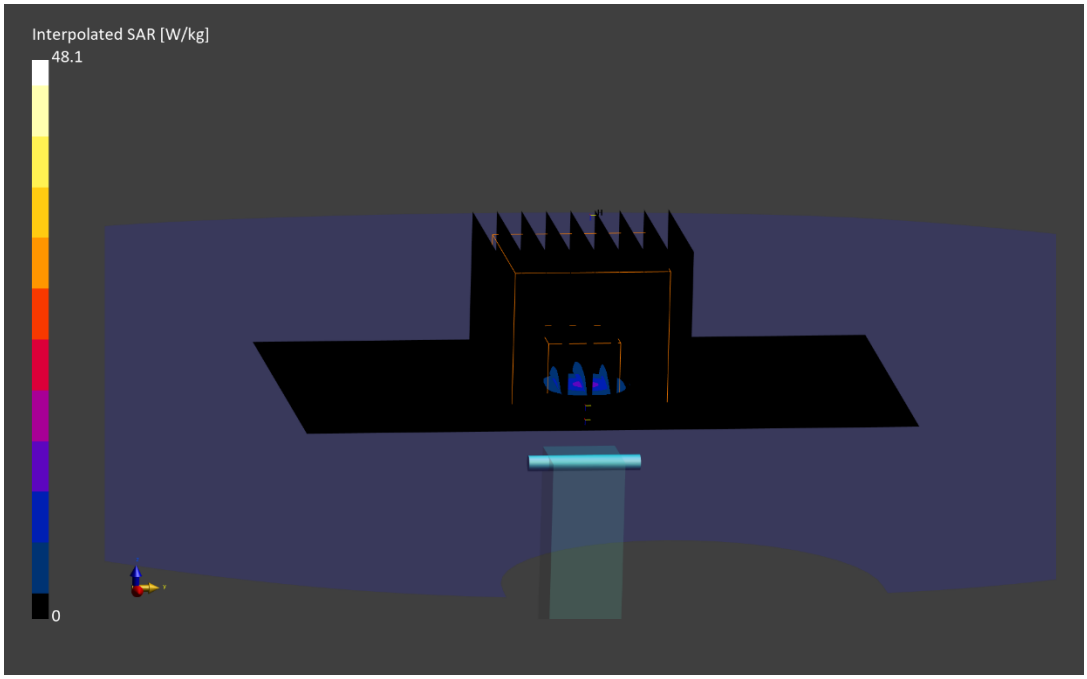
Communication System: UID: 0, CW; Frequency: 6500.000 MHz
Medium: 6000 Head; Medium parameters used:
f = 6500.000 MHz; cond = 6.09 S/m; perm = 33.7; density = 1000 kg/m^3
Phantom Section: Flat; Space: 5 mm

Test Date: 07/15/2024; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7532; ConvF:(5.24,4.91,5.59); 2024-04-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; 2024-04-09
Phantom: Twin-SAM V4.0 (30deg probe tilt); Serial: 1447
Measurement SW: DASY Module SAR V16.2.4.2524

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) = 48.1 W/kg
SAR(1 g) = 7.79 W/kg; SAR(10 g) = 1.43 W/kg; APD (4cm^2) = 35.0 W/m^2
Deviation (1 g) = 6.35%; Deviation (10 g) = 5.69%; Deviation (4cm^2) = 6.06%



element

ELEMENT

Date: 07/15/2024

10 GHz System Verification

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1006

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9487, 04/08/2024	DAE4 - SN793, 10/18/2023

Software Setup

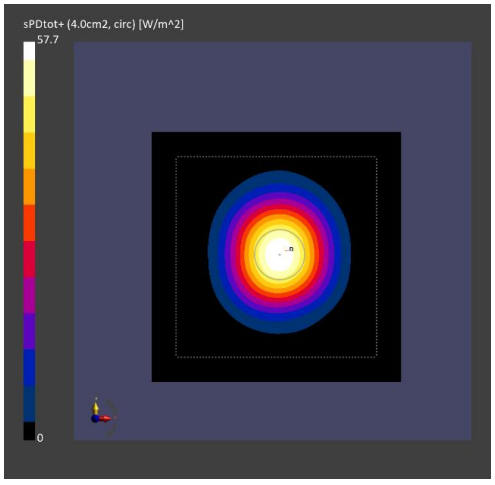
Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

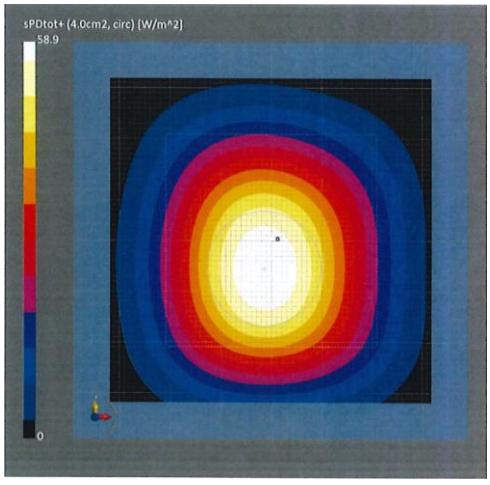
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS_{tot} avg [W/m²]	57.7
pS_n avg [W/m²]	57.5
E_{peak} [V/m]	155
Deviation [dB] pS_{tot}	-0.09
Deviation [dB] pS_n	-0.07



10 GHz Verification



Calibration Certificate