

APPENDIX B: SYSTEM VERIFICATION PLOTS

PCTEST

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 = 6.03 S/m; perm = 32.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 04/12/2021; Ambient Temp: 22.4°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7570; ConvF:(5.4,5.4,5.4); Calibrated: 2020-12-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn859; Calibrated: 2020-12-07
Phantom: Twin-SAM V8.0 Right; Serial: 1981
Measurement SW: cDASY6 Module SAR V6.14.0.959

6500.0 MHz System Verification at 17.0 dBm

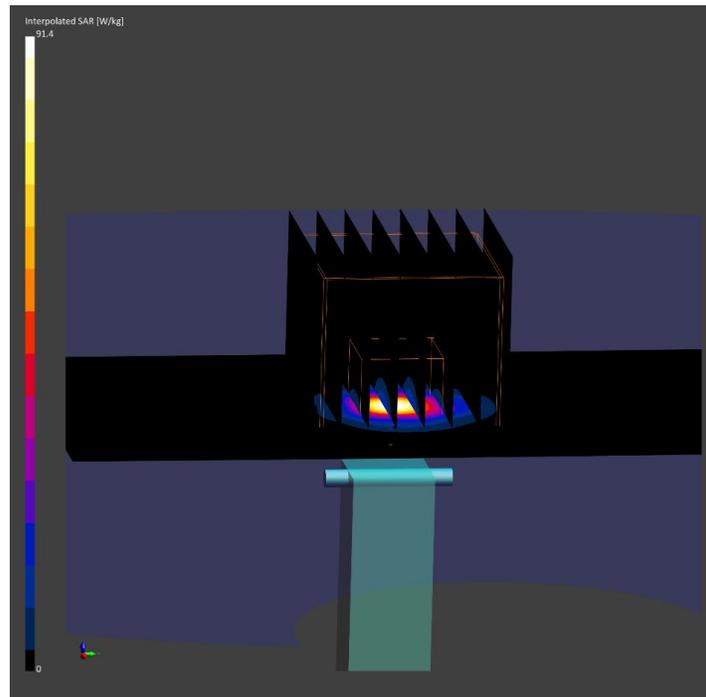
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5mm, dy=8.5mm

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

Peak SAR (extrapolated) = 91.4 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 2.64 W/kg; APD(4cm²) = 66.1 W/m²

Deviation (1 g) = -2.05%; Deviation (10 g) = -1.86%; Deviation (4 cm²) = -2.07%



PCTEST

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 = 5.99 S/m; perm = 33.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 04/14/2021; Ambient Temp: 22.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.4,5.4,5.4); Calibrated: 2020-12-15
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn859; Calibrated: 2020-12-07
Phantom: Twin-SAM V8.0 Right; Serial: 1981
Measurement SW: cDASY6 Module SAR V6.14.0.959

6500.0 MHz System Verification at 17.0 dBm

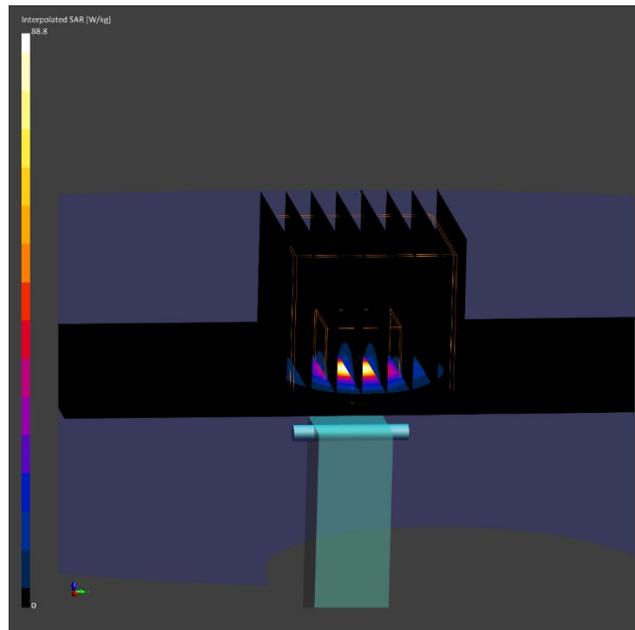
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5mm, dy=8.5mm

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

Peak SAR (extrapolated) = 88.8 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 2.63 W/kg; APD(4cm²) = 65.7 W/m²

Deviation (1 g) = -2.74%; Deviation (10 g) = -2.23%; Deviation (4 cm²) = -2.67%



PCTEST

Date: 04/28/2021

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 | Validation band | 10000.0 |

Hardware Setup

| | |
|-----------------------------|------------------------|
| Probe, Calibration Date | DAE, Calibration Date |
| EUmWV3 - SN9389, 11/16/2020 | DAE4 SN728, 05/20/2020 |

Software Setup

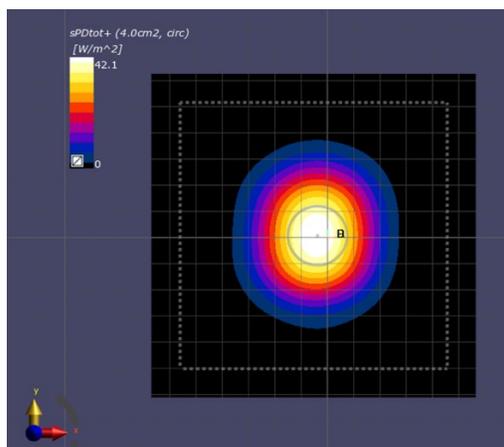
| | |
|----------------------|------------------|
| Software | Software Version |
| cDASY6 Module mmWave | 2.2.0.76 |

Scans Setup

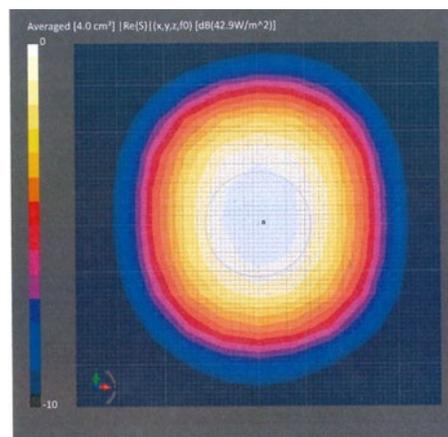
| | |
|---------------------|-------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 120 x 120 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.00 |

Measurement Results

| | |
|---|---------|
| Scan Type | 5G Scan |
| Avg. Area [cm ²] | 4.00 |
| pS _{tot} avg [W/m ²] | 42.1 |
| pS _n avg [W/m ²] | 41.8 |
| E _{peak} [V/m] | 133 |
| Deviation (dB) | -0.08 |



10 GHz System Verification



Calibration Certificate