

## **APPENDIX A: SYSTEM CHECKING SCANS**

## Dipole2450V2

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz);

Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.74$  S/m;  $\epsilon_r = 38.84$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole 2450/Area Scan (71x71x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Reference Value = 106.5 V/m; Power Drift = 0.10 dB

**Fast SAR: SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.34 W/kg**

Maximum value of SAR (interpolated) = 16.9 W/kg

**Head/Dipole 2450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 106.5 V/m; Power Drift = 0.10 dB

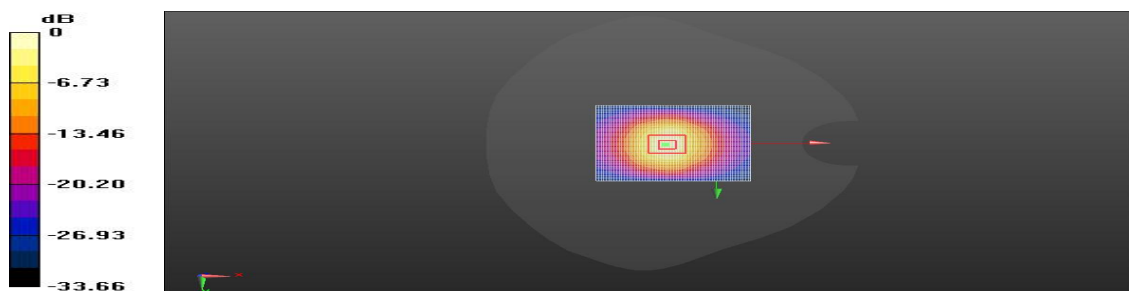
Peak SAR (extrapolated) = 28.4 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.3 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg = 12.27 dBW/kg

## Dipole 5.2GV2

Communication System: UID 0, CW (0); Communication System Band: CW5250;

Frequency: 5250 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.55$  S/m;  $\epsilon_r = 36.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(5.24, 5.24, 5.24) @ 5250 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole 5.25G/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 63.97 V/m; Power Drift = 0.12 dB

**Fast SAR: SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.17 W/kg**

Maximum value of SAR (interpolated) = 9.46 W/kg

**Head/Dipole 5.25G/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 63.97 V/m; Power Drift = 0.12 dB

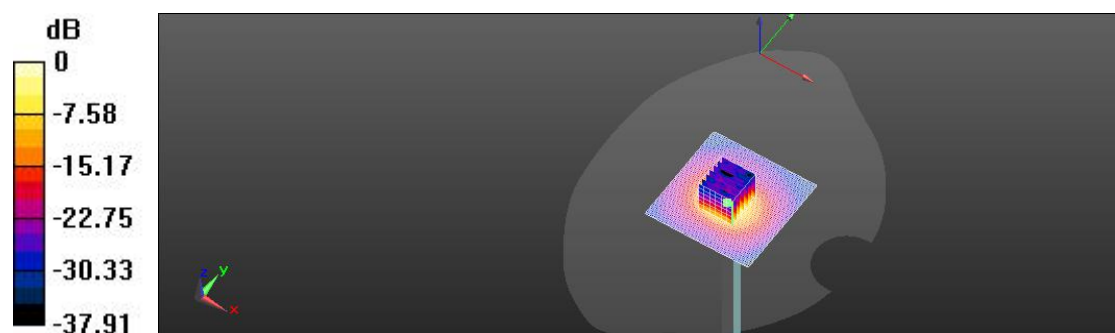
Peak SAR (extrapolated) = 30.9 W/kg

**SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 65.2%

Maximum value of SAR (measured) = 9.29 W/kg



0 dB = 9.46 W/kg = 9.76 dBW/kg

## Dipole 5.6GV2

Communication System: UID 0, CW (0); Communication System Band: CW5600;

Frequency: 5600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.93$  S/m;  $\epsilon_r = 36.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(4.60, 4.60, 4.60) @ 5250 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole 5.6G/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 62.91 V/m; Power Drift = -0.13 dB

**Fast SAR: SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.25 W/kg**

Maximum value of SAR (interpolated) = 10.1 W/kg

**Head/Dipole 5.6G/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

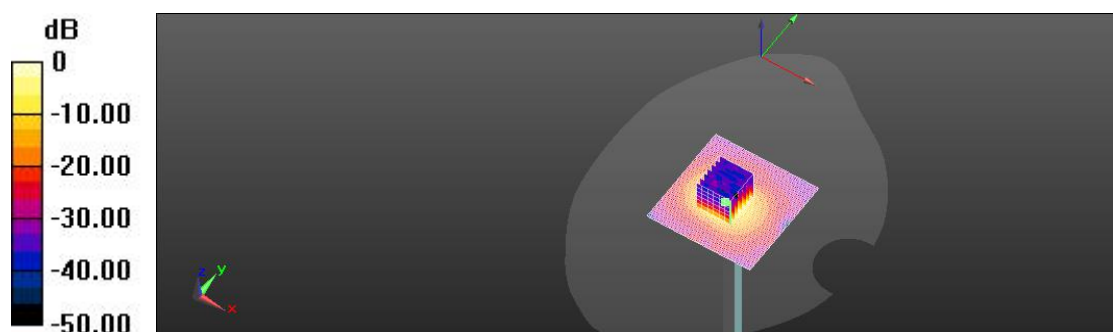
Reference Value = 62.91 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 35.2 W/kg

**SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.13 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 62.6% Maximum value of SAR (measured) = 9.9 W/kg



0 dB = 10.1 W/kg = 10.04 dBW/kg

## Dipole 5.75GV2

Communication System: UID 0, CW (0); Communication System Band: CW5750;

Frequency: 5750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.39$  S/m;  $\epsilon_r = 35.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(4.68, 4.68, 4.68) @ 5250 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole 5.75G/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Reference Value = 64.38 V/m; Power Drift = 0.05 dB

**Fast SAR: SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.25 W/kg**

Maximum value of SAR (interpolated) = 10.0 W/kg

**Head/Dipole 5.75G/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

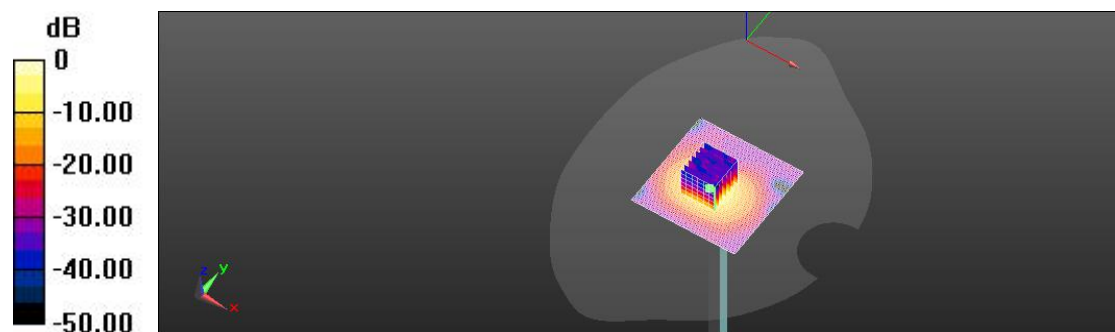
Reference Value = 64.38 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 37.3 W/kg

**SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.28 W/kg**

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%    Maximum value of SAR (measured) = 10.0 W/kg



0 dB = 10.0 W/kg = 10.02 dBW/kg