

# APPENDIX A: SYSTEM CHECKING SCANS

## Dipole750V2

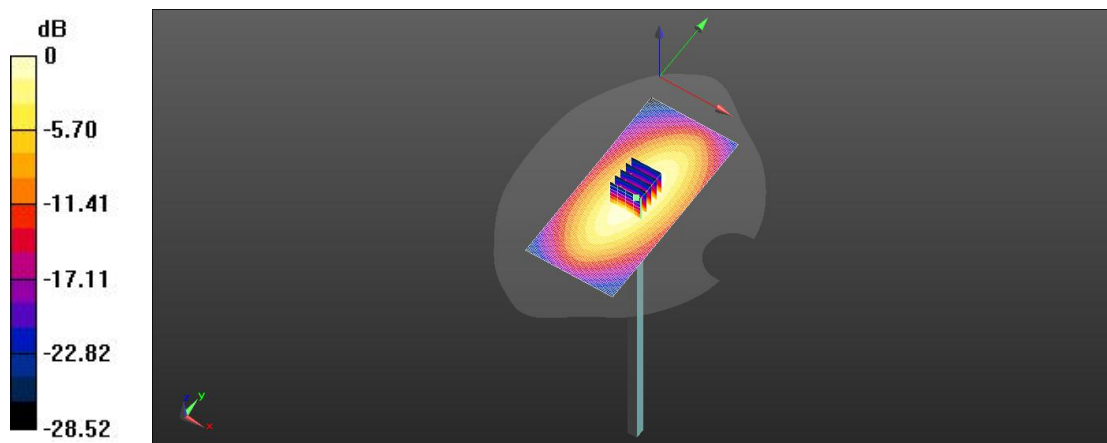
Communication System: UID 0, Generic GSM; Communication System Band: GSM 750 (747.0 - 763.0 MHz); Frequency: 755 MHz; Communication System PAR: 9.191 dB; PMF: 2.88104  
Medium parameters used (interpolated):  $f = 755$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 42.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

### DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(10, 10, 10) @ 755 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Dipole 750MHz 2/Area Scan (61x131x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Reference Value = 54.98 V/m; Power Drift = 0.07 dB  
**Fast SAR: SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.42 W/kg**  
Maximum value of SAR (interpolated) = 2.82 W/kg

**Configuration/Dipole 750MHz 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 54.98 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 3.10 W/kg  
**SAR(1 g) = 2.10 W/kg; SAR(10 g) = 1.37 W/kg**  
Smallest distance from peaks to all points 3 dB below = 22.7 mm  
Ratio of SAR at M2 to SAR at M1 = 60.3%  
Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.82 W/kg = 4.40 dBW/kg

## Dipole835V2

Communication System: UID 0, CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

### DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole835/Area Scan (61x131x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 58.60 V/m; Power Drift = 0.07 dB

**Fast SAR: SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.53 W/kg**

Maximum value of SAR (interpolated) = 3.13 W/kg

**Head/Dipole835/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 58.60 V/m; Power Drift = 0.07 dB

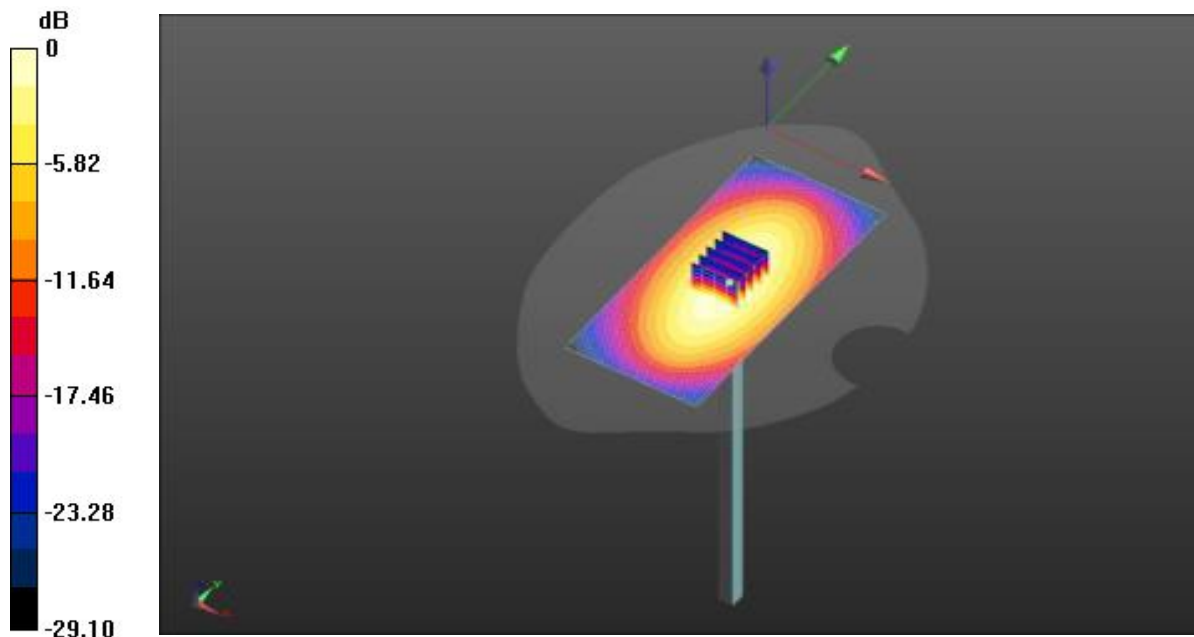
Peak SAR (extrapolated) = 3.62 W/kg

**SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.51 W/kg**

Smallest distance from peaks to all points 3 dB below = 18.0 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 3.13 W/kg = 4.63 dBW/kg

## Dipole 1750V2

Communication System: CW; Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 40.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole1800/Area Scan (61x131x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 94.70 V/m; Power Drift = 0.11 dB

**Fast SAR: SAR(1 g) = 9.02 W/g; SAR(10 g) = 4.82 W/g**

Maximum value of SAR (interpolated) = 11.6 W/kg

**Head/Dipole1800/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 94.70 V/m; Power Drift = 0.11 dB

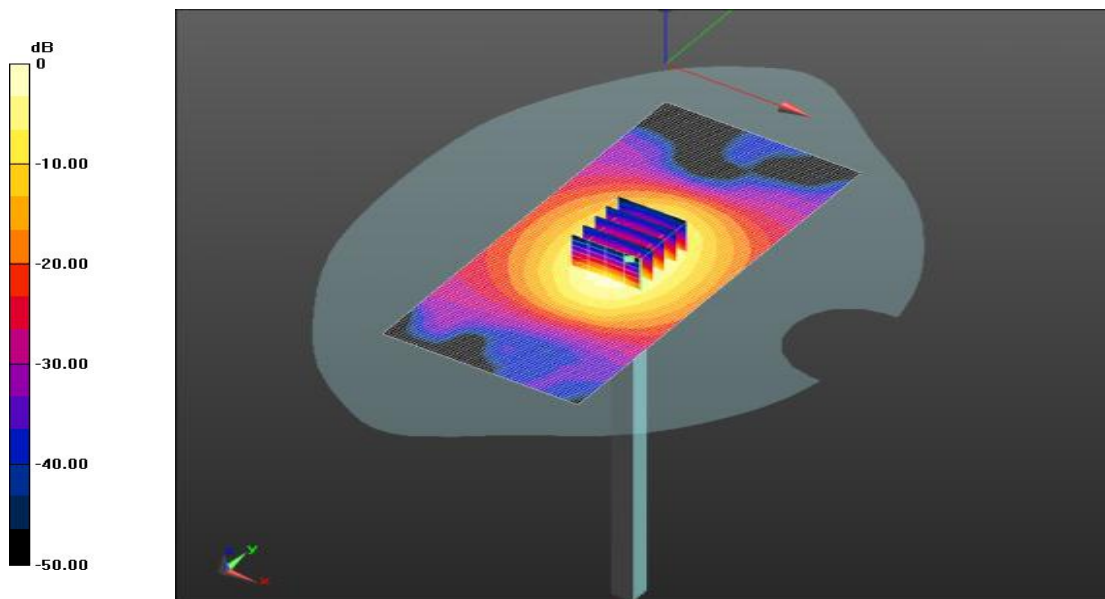
Peak SAR (extrapolated) = 16.7 W/g

**SAR(1 g) = 8.93 W/g; SAR(10 g) = 4.77 W/g**

Smallest distance from peaks to all points 3 dB below = 10.0 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.6 W/kg = 9.19 dB W/kg

**Dipole1900V2**

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.43$  S/m;  $\epsilon_r = 39.40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

## DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole1900/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 105.3 V/m; Power Drift = 0.05 dB

**Fast SAR: SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.15 W/kg**

Maximum value of SAR (interpolated) = 13.0 W/kg

**Head/Dipole1900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 105.3 V/m; Power Drift = 0.05 dB

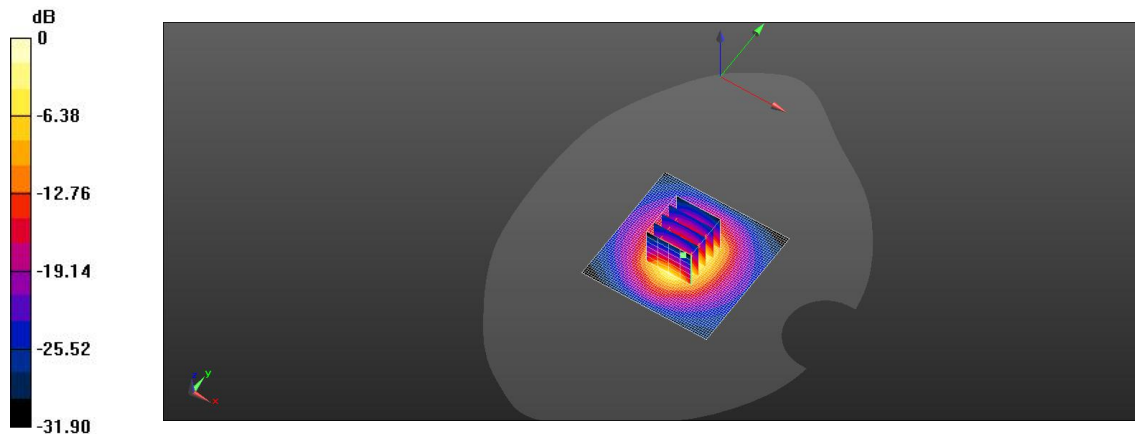
Peak SAR (extrapolated) = 19.4 W/kg

**SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.09 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 12.8 W/kg



0 dB = 13.0 W/kg = 9.71 dBW/kg

### 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;  $\sigma = 1.75$  S/m;  $\epsilon_r = 39.34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole2450/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 105.9 V/m; Power Drift = 0.06 dB

**Fast SAR: SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.81 W/kg**

Maximum value of SAR (interpolated) = 16.1 W/kg

**Head/Dipole2450/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 105.9 V/m; Power Drift = 0.06 dB

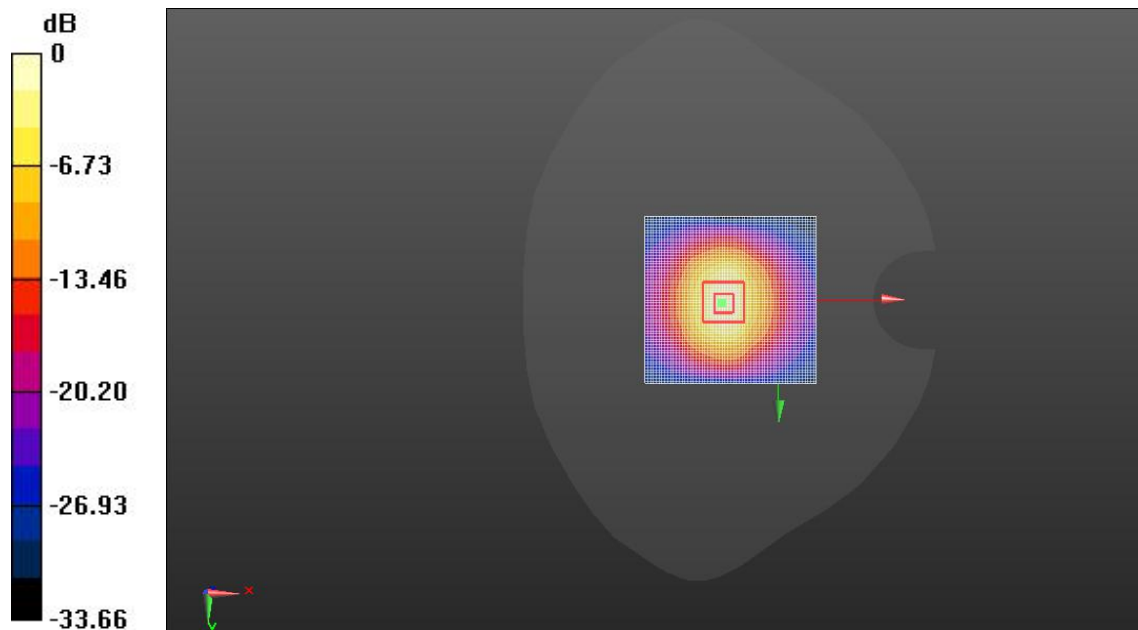
Peak SAR (extrapolated) = 26.8 W/kg

**SAR(1 g) = 12.60 W/kg; SAR(10 g) = 5.80 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 16.1 W/kg = 9.57 dBW/kg

**Dipole2600V2**

Communication System: UID 0, CW; Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.00$  S/m;  $\epsilon_r = 39.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

## DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/Dipole2600MHz/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 97.8 V/m; Power Drift = -0.12 dB

**Fast SAR: SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.24 W/kg**

Maximum value of SAR (interpolated) = 17.1W/kg

**Head/Dipole2600MHz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 97.8 V/m; Power Drift = -0.12 dB

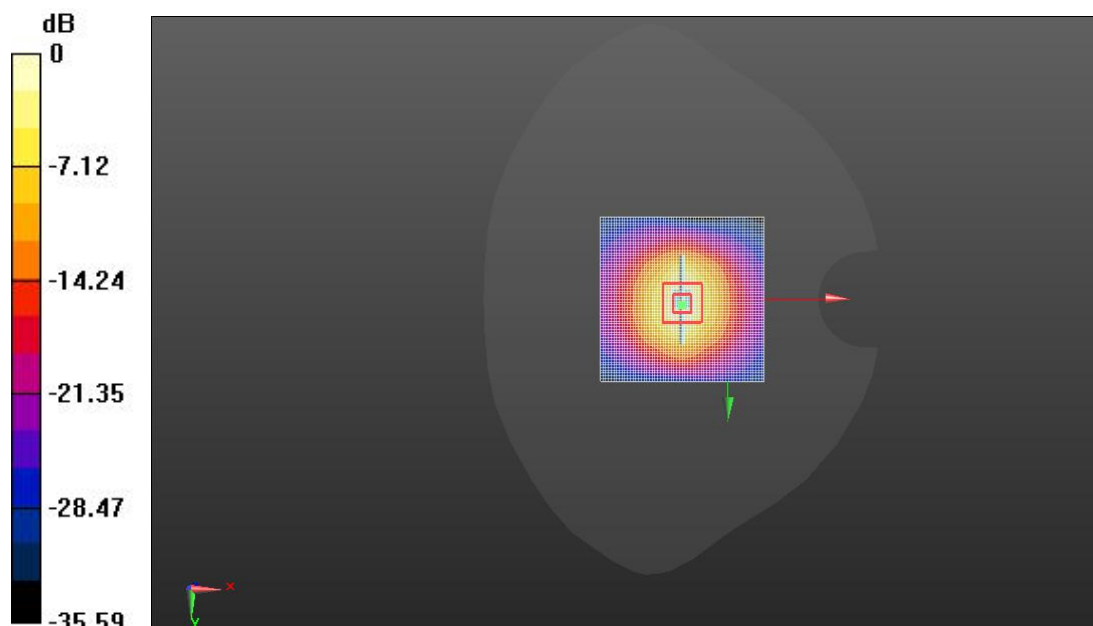
Peak SAR (extrapolated) = 30.0 W/kg

**SAR(1 g) = 13.80 W/kg; SAR(10 g) = 6.23 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 17.2W/kg



0 dB = 17.1 W/kg = 9.61 dBW/kg

**Dipole 5.2GV2**

Communication System: UID 0, CW (0); Communication System Band: CW5250; Frequency: 5250 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005  
 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.52$  S/m;  $\epsilon_r = 36.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

## DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head5.3/5.250G 3/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 64.42 V/m; Power Drift = -0.16 dB

**Fast SAR: SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.19 W/kg**

Maximum value of SAR (interpolated) = 9.49 W/kg

**Head5.3/5.250G 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 64.42 V/m; Power Drift = -0.16 dB

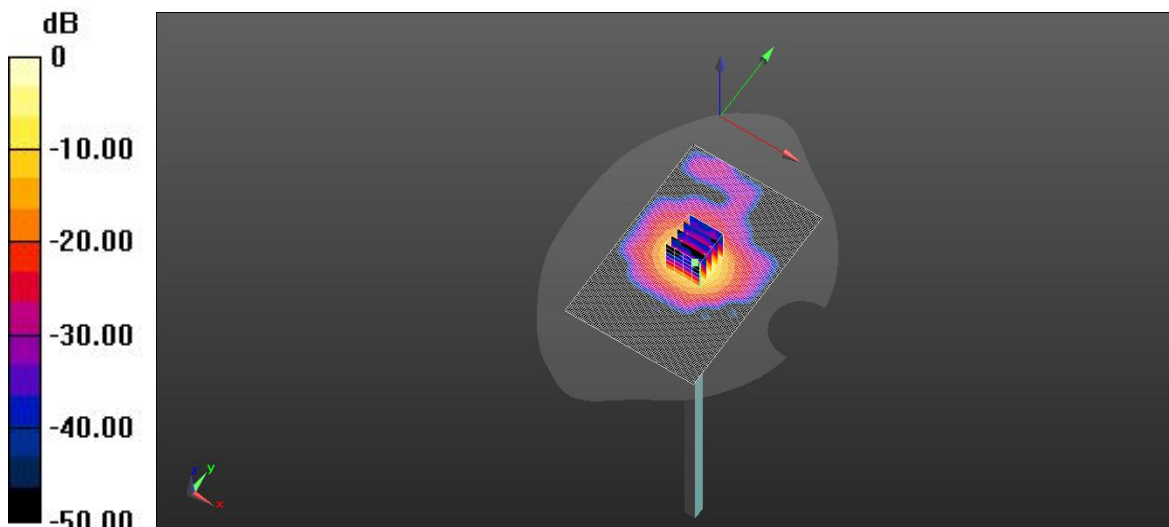
Peak SAR (extrapolated) = 31.2 W/kg

**SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.16 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 65.3%

Maximum value of SAR (measured) = 9.42 W/kg



0 dB = 9.49 W/kg = 6.41 dBW/kg



## Dipole 5.6GV2

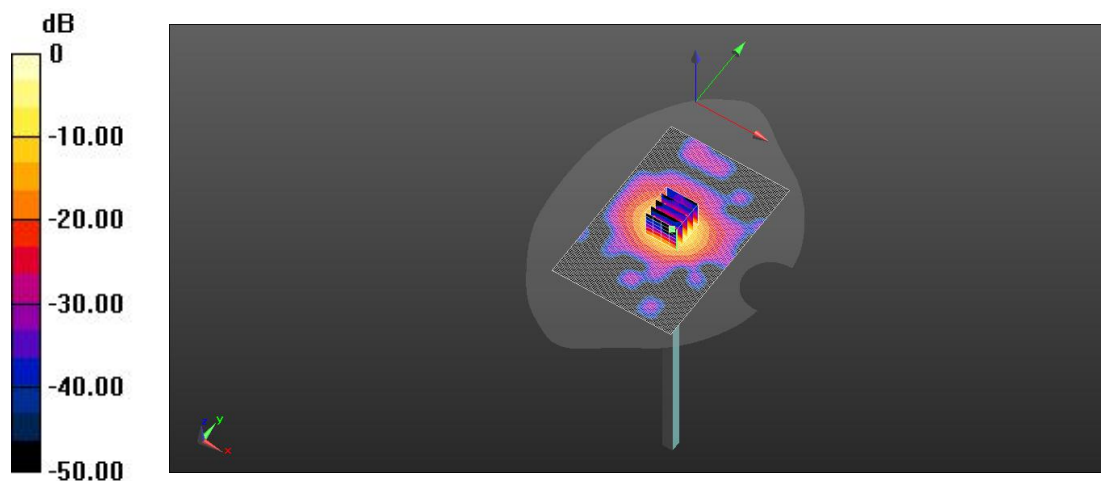
Communication System: UID 0, CW (0); Communication System Band: CW5600; Frequency: 5600 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.25$  S/m;  $\epsilon_r = 34.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

### DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head5.6/5.6G 2/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Reference Value = 65.27 V/m; Power Drift = -0.07 dB  
**Fast SAR: SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.31 W/kg**  
Maximum value of SAR (interpolated) = 10.1 W/kg

**Head5.6/5.6G 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 65.27 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 36.7 W/kg  
**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.28 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7.1 mm  
Ratio of SAR at M2 to SAR at M1 = 61.9%  
Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 10.1 W/kg = 6.88 dBW/kg

## Dipole 5.75GV2

Communication System: UID 0, CW (0); Communication System Band: CW5750; Frequency: 5750 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005  
Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.42$  S/m;  $\epsilon_r = 34.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

### DASY Configuration:

- Probe: EX3DV4 –SN3881; ConvF(9.62, 9.62, 9.62) @ 835 MHz; Calibrated: 2023-01-03
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2022-10-31
- Phantom: SAM 3; Type: QD 000 P41 AA; Serial:2025
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head5.8/5.75G 4/Area Scan (81x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Reference Value = 62.64 V/m; Power Drift = 0.16 dB

**Fast SAR: SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (interpolated) = 9.77 W/kg

**Head5.8/5.75G 4/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 62.64 V/m; Power Drift = 0.16 dB

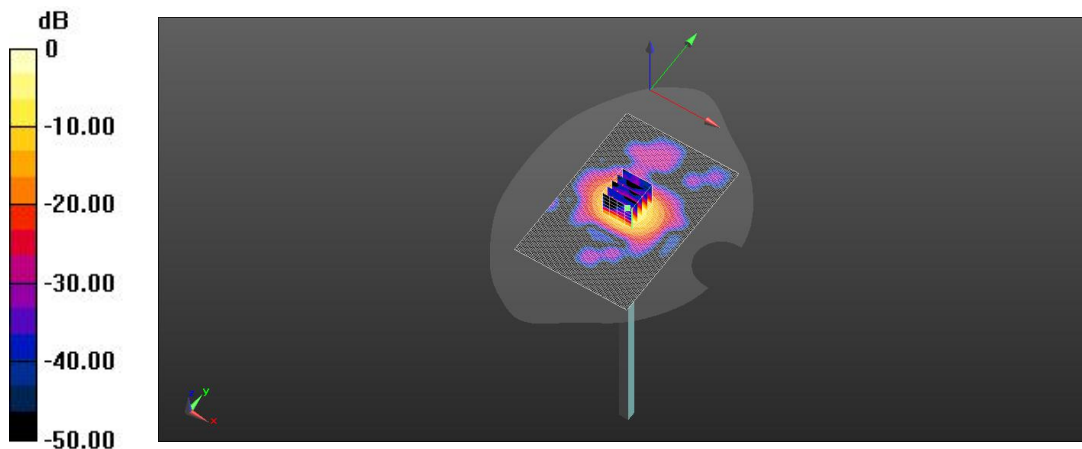
Peak SAR (extrapolated) = 36.2 W/kg

**SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.15 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.0%

Maximum value of SAR (measured) = 9.48 W/kg



0 dB = 9.77 W/kg = 6.16 dBW/kg