

APPENDIX A: SYSTEM CHECKING SCANS

Dipole750V2

Communication System: UID 0, CW; Communication System Band: GSM 750 (747.0 - 763.0 MHz);
Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): $f = 750$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.82$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(9.65, 9.65, 9.65) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 750Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 52.30 V/m; Power Drift = -0.14 dB

Fast SAR: SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.33 W/kg

Maximum value of SAR (interpolated) = 2.64 W/kg

Head/Dipole 750/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.30 V/m; Power Drift = -0.14 dB

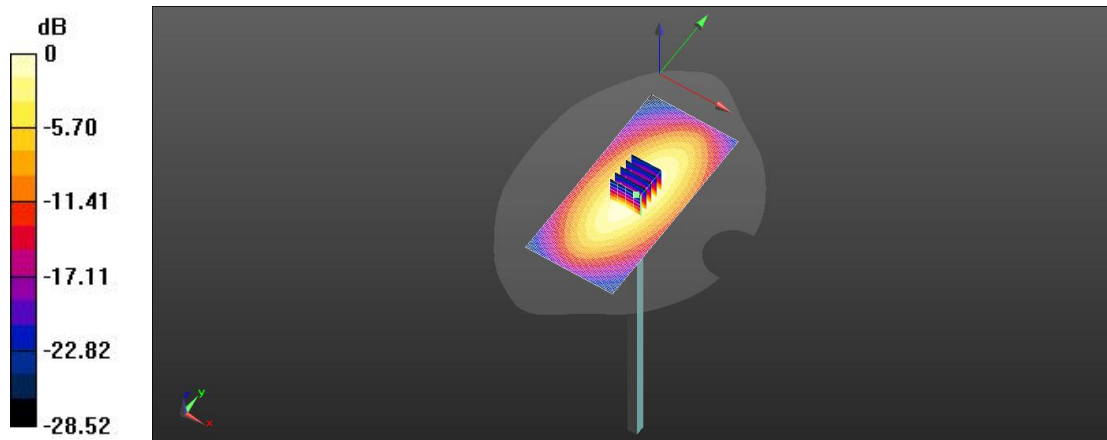
Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.29 W/kg

Smallest distance from peaks to all points 3 dB below = 23.9 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 2.49 W/kg



0 dB = 2.64 W/kg = 4.21 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; $\sigma = 0.93$ S/m; $\epsilon_r = 42.19$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(9.25, 9.25, 9.25) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 835/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 58.49 V/m; Power Drift = -0.13 dB

Fast SAR: SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (interpolated) = 3.24 W/kg

Head/Dipole 835/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 58.49 V/m; Power Drift = -0.13 dB

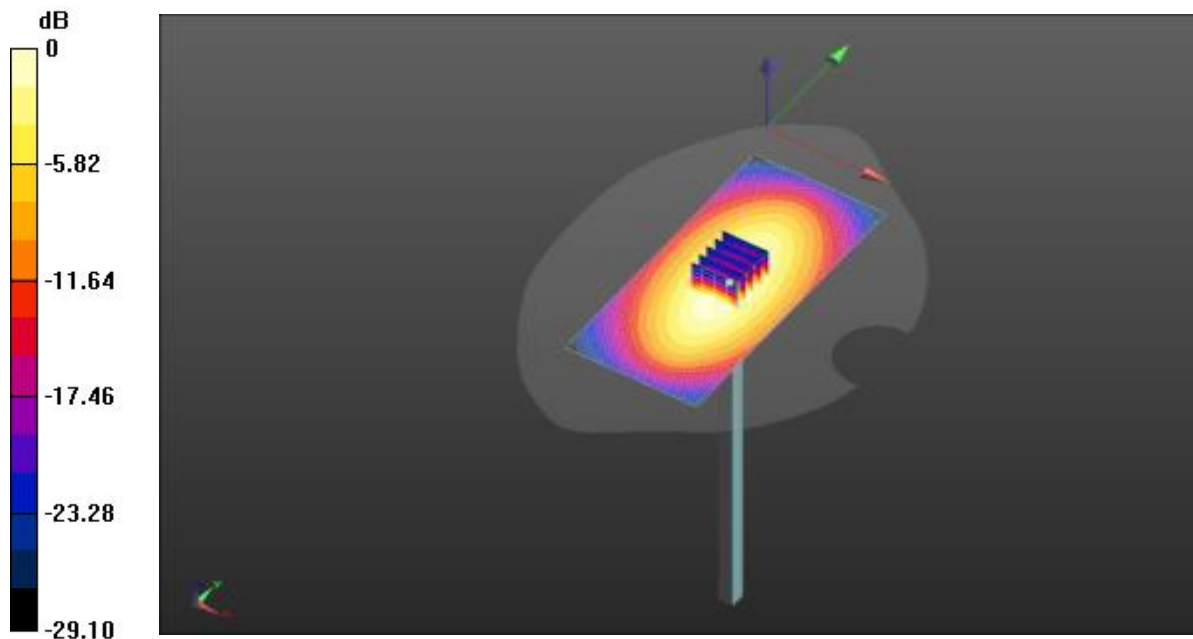
Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.58 W/kg

Smallest distance from peaks to all points 3 dB below = 17.5 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 3.07 W/kg



0 dB = 3.24 W/kg = 5.11 dBW/kg

Dipole900V2

Communication System: UID 0, CW; Communication System Band: D900 (900.0 MHz); Frequency: 900 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: $f = 900$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 42.22$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(9.20, 9.20, 9.20) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS2 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 900/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 61.46 V/m; Power Drift = 0.10 dB

Fast SAR: SAR(1 g) = 2.77 W/kg; SAR(10 g) = 1.83 W/kg

Maximum value of SAR (interpolated) = 3.60 W/kg

Head/Dipole 900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 61.46 V/m; Power Drift = 0.10 dB

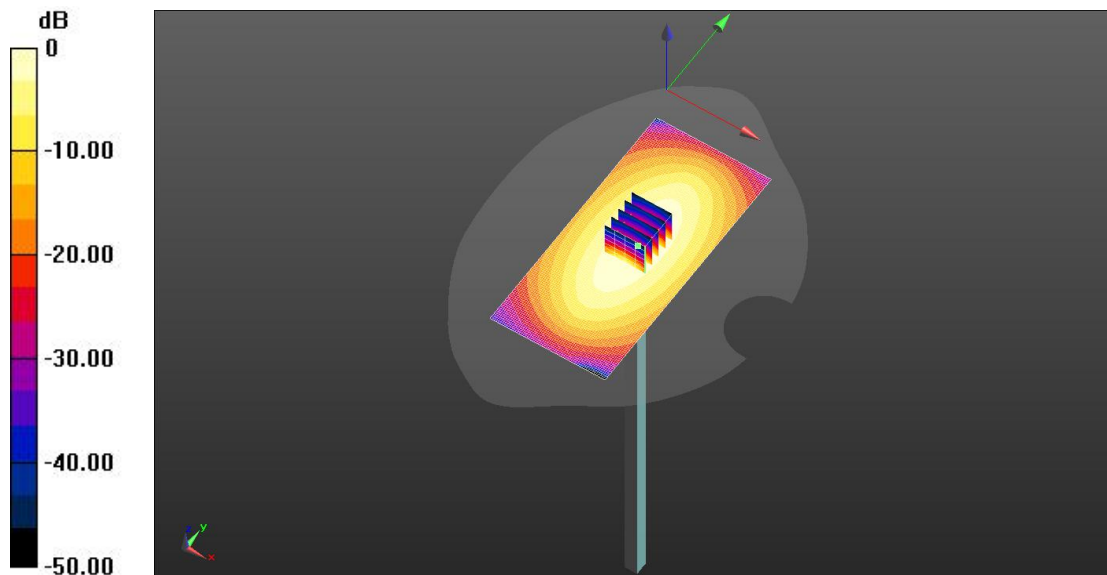
Peak SAR (extrapolated) = 4.33 W/kg

SAR(1 g) = 2.71 W/kg; SAR(10 g) = 1.75 W/kg

Smallest distance from peaks to all points 3 dB below = 16.7 mm

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

Maximum value of SAR (measured) = 3.51 W/kg



0 dB = 3.60 W/kg = 5.56 dBW/kg

Dipole 1750V2

Communication System: UID 0, CW; Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 40.03$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(8.28, 8.28, 8.28) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 1750/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 96.55 V/m; Power Drift = 0.15 dB

Fast SAR: SAR(1 g) = 9.2 W/g; SAR(10 g) = 4.9 W/g

Maximum value of SAR (interpolated) = 11.8 W/kg

Head/Dipole 1750/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 96.55 V/m; Power Drift = 0.15 dB

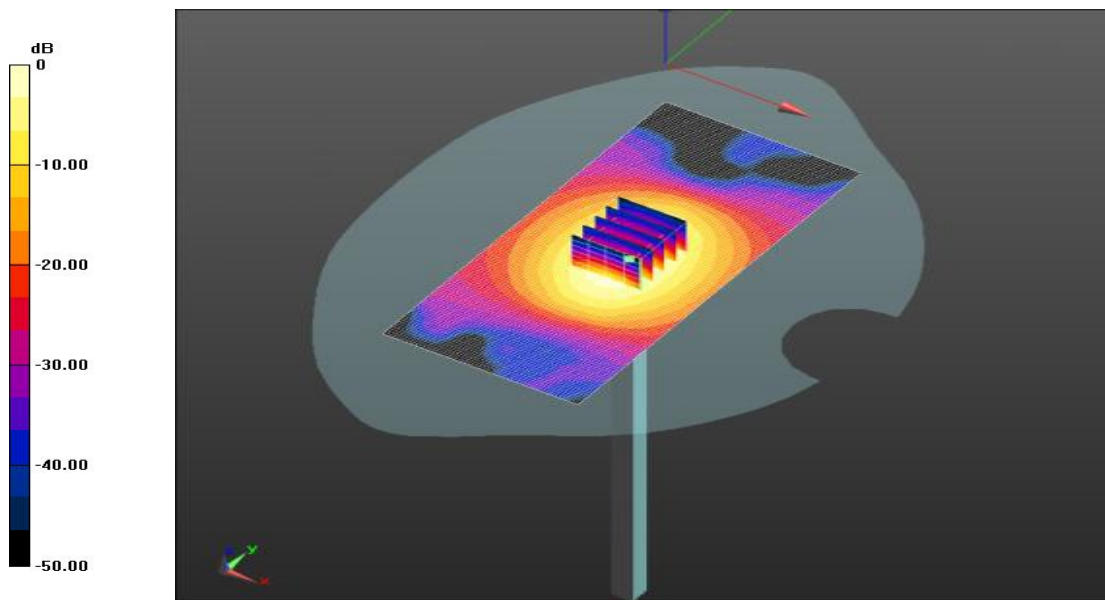
Peak SAR (extrapolated) = 17.0 W/g

SAR(1 g) = 9.08 W/g; SAR(10 g) = 4.89 W/g

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 11.7 W/kg



0 dB = 11.8 W/kg = 10.72 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; $\sigma = 1.37$ S/m; $\epsilon_r = 40.14$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.93, 7.93, 7.93) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 1900/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 98.98 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.44 W/kg

Maximum value of SAR (interpolated) = 13.1 W/kg

Head/Dipole 1900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 98.98 V/m; Power Drift = 0.06 dB

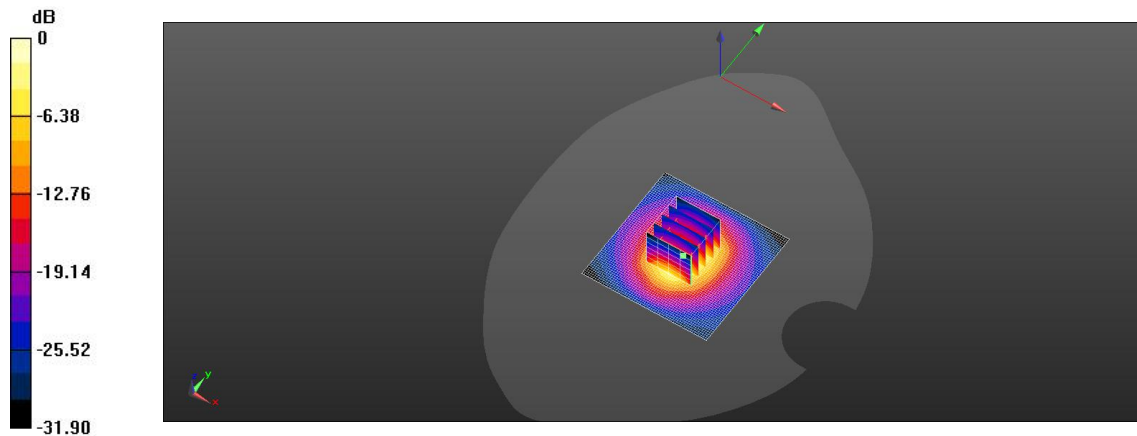
Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.4 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 13.1 W/kg = 11.17 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; $\sigma = 1.87$ S/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.45, 7.45, 7.45) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 2450/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 104.8 V/m; Power Drift = 0.12 dB

Fast SAR: SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.22 W/kg

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

Head/Dipole 2450/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 104.8 V/m; Power Drift = 0.12 dB

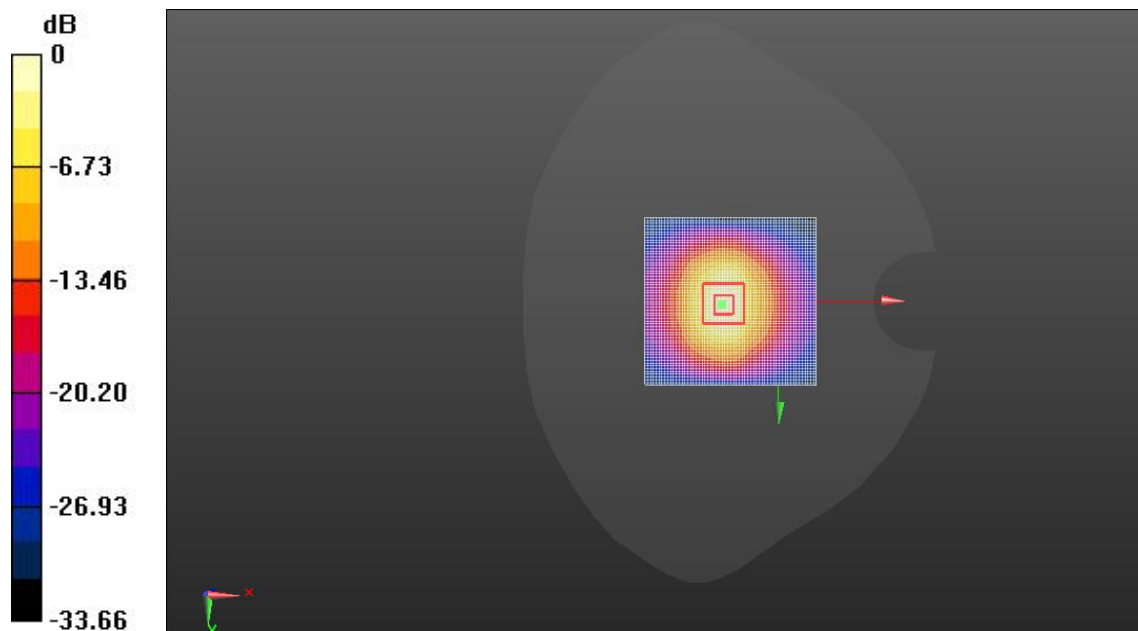
Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.21 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 45.1%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.9 W/kg = 12.28 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; $\sigma = 1.99$ S/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.29, 7.29, 7.29) @ 750 MHz; Calibrated: 2025-02-25
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2024-10-15
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 2600MHz/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 99.79 V/m; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.39 W/kg

Maximum value of SAR (interpolated) = 17.7W/kg

Head/Dipole 2600MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 99.79 V/m; Power Drift = 0.02 dB

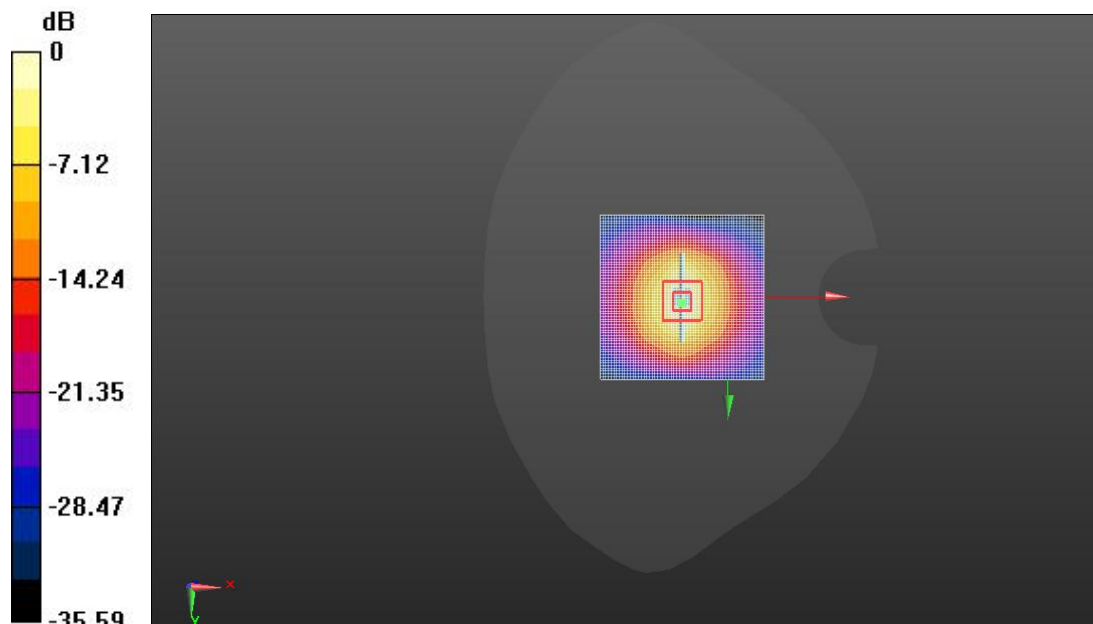
Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.34 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 17.7W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg