

A.2. System Check Test Plots

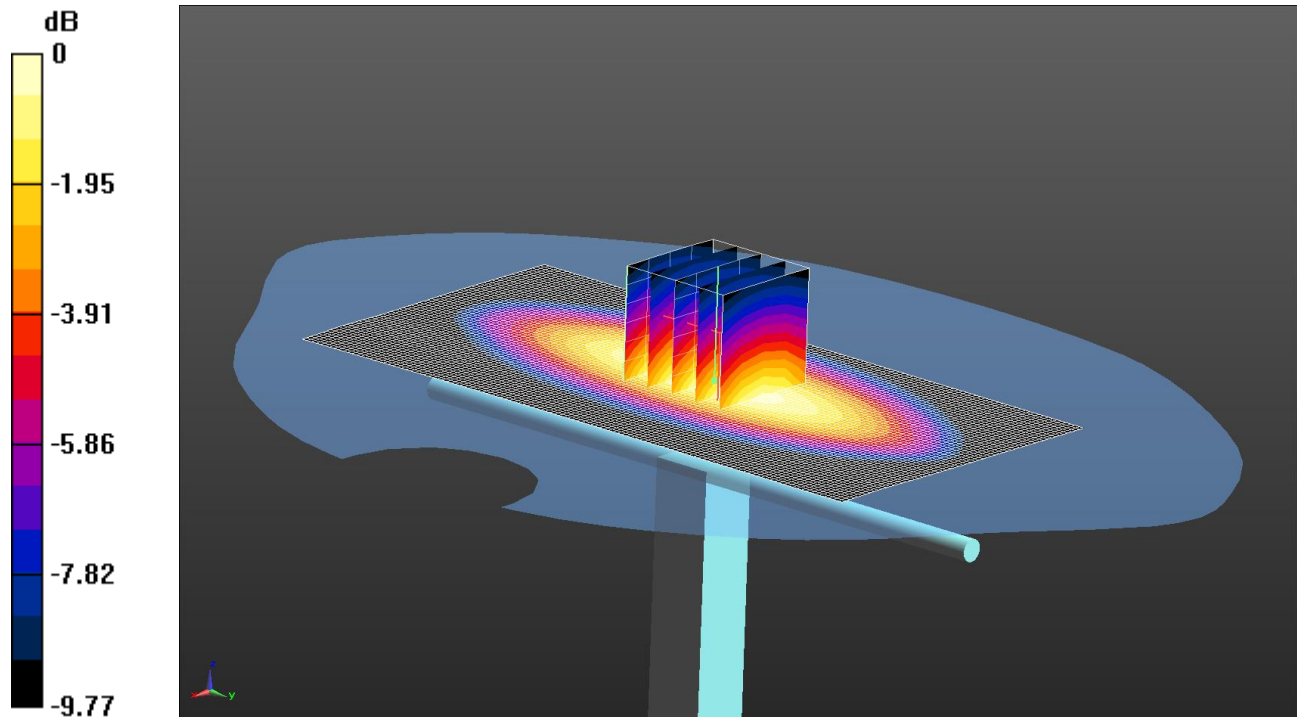
This section contains the system check plots, which are not included in the total number of pages for this report.

Scan Reference Number	Title
001	System Performance Check 750MHz Head 27 01 15
002	System Performance Check 750MHz Body 26 01 15
003	System Performance Check 900MHz Head 22 01 15
004	System Performance Check 900MHz Body 19 01 15
005	System Performance Check 900MHz Body 22 01 15
006	System Performance Check 900MHz Body 27 01 15
007	System Performance Check 1800MHz Head 20 01 15
008	System Performance Check 1800MHz Body 22 01 15
009	System Performance Check 1900MHz Head 29 12 14
010	System Performance Check 1900MHz Head 26 01 15
011	System Performance Check 1900MHz Body 22 12 14
012	System Performance Check 1900MHz Body 15 01 15
013	System Performance Check 1900MHz Body 19 01 15
014	System Performance Check 1900MHz Body 22 01 15
015	System Performance Check 1900MHz Body 26 01 15
016	System Performance Check 2450MHz Head 05 01 15
017	System Performance Check 2450MHz Body 22 01 15
018	System Performance Check 2450MHz Body 26 01 15
019	System Performance Check 2600MHz Head 26 01 15
020	System Performance Check 2600MHz Body 13 01 15
021	System Performance Check 2600MHz Body 16 01 15
022	System Performance Check 2600MHz Body 19 01 15
023	System Performance Check 5200 MHz Head 06 02 15
024	System Performance Check 5200 MHz Head 16 02 15
025	System Performance Check 5500 MHz Head 06 02 15
026	System Performance Check 5500 MHz Head 16 02 15
027	System Performance Check 5800 MHz Head 06 02 15
028	System Performance Check 5800 MHz Head 16 02 15
029	System Performance Check 5200 MHz Body 21 01 15
030	System Performance Check 5500 MHz Body 21 01 15
031	System Performance Check 5800 MHz Body 21 01 15

001: System Performance Check 750MHz Head 27 01 15

Date: 27/01/15

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1024



0 dB = 2.21 W/kg = 3.44 dBW/kg

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 MHz HSL Medium parameters used: $f = 750$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 43.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.6, 6.6, 6.6); Calibrated: 22/05/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/05/14
- Phantom: SAM 12b (Site 56); Type: SAM 4.0; Serial: TP:1192
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=15mm, Pin=250mW 2/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

Configuration/d=15mm, Pin=250mW 2/Zoom Scan (5x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.19 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.93 W/kg

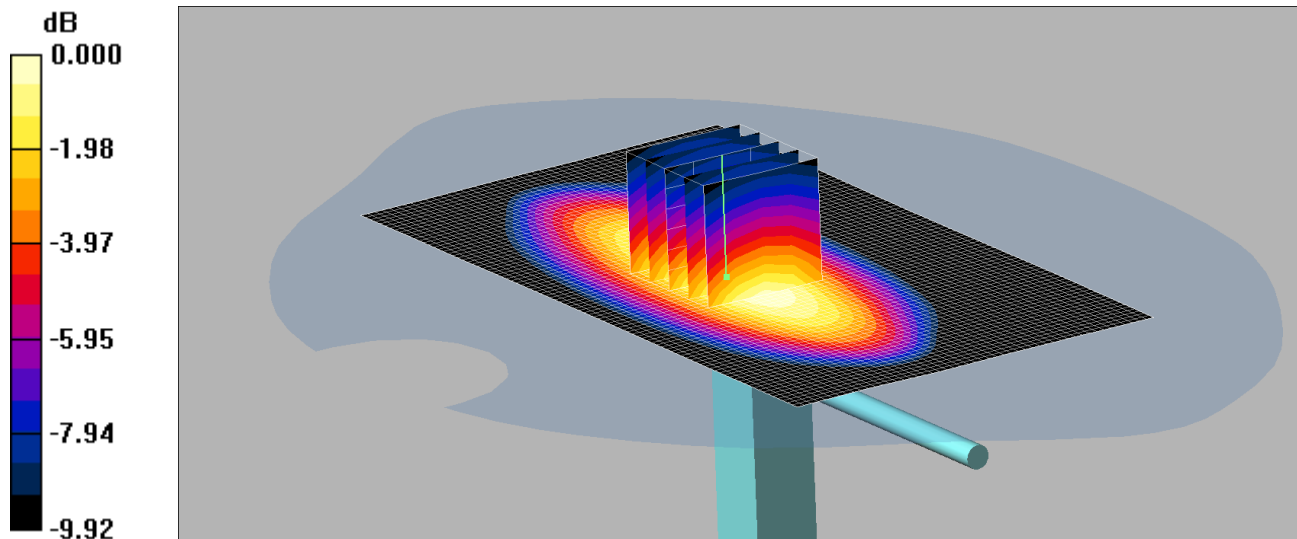
SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (measured) = 2.21 W/kg

002: System Performance Check 750MHz Body 26 01 15

Date: 26/01/2015

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1024



0 dB = 2.30mW/g

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750/900 MHz MSL Medium parameters used: $f = 750$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.15, 6.15, 6.15);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/05/2014
- Phantom: SAM 12a (Site 56); Type: SAM 4.0; Serial: TP:1020
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

d=15mm, Pin=250mW 2 2/Area Scan (51x91x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 2.35 mW/g

d=15mm, Pin=250mW 2 2/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.1 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 3.09 W/kg

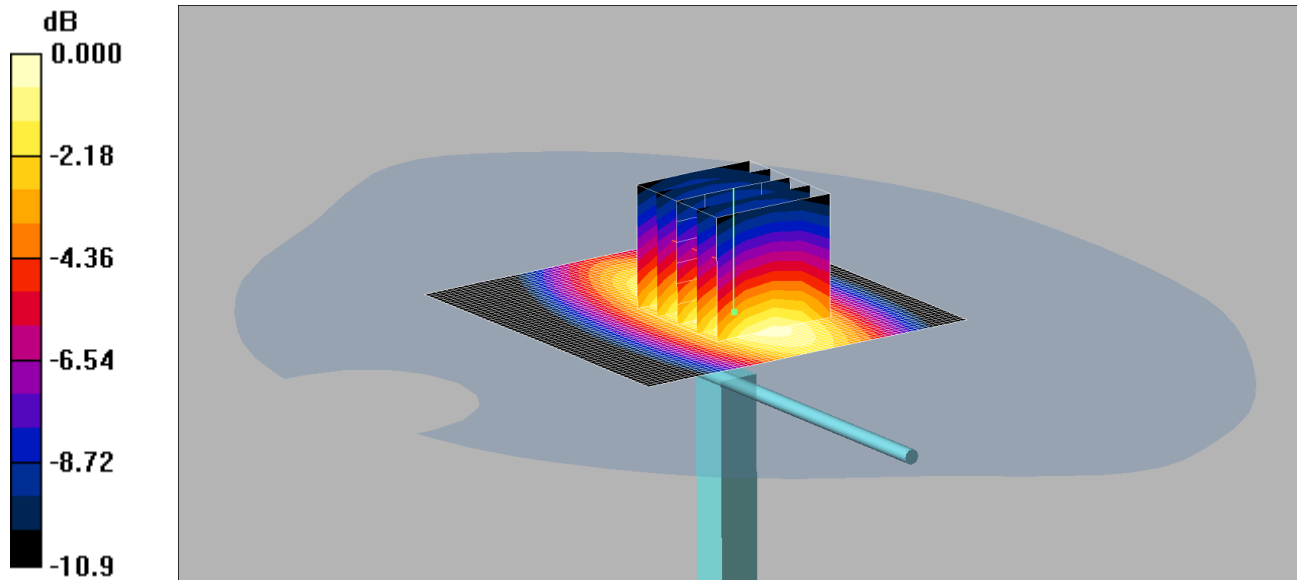
SAR(1 g) = 2.14 mW/g; SAR(10 g) = 1.43 mW/g

Maximum value of SAR (measured) = 2.30 mW/g

003: System Performance Check 900MHz Head 22 01 15

Date: 22/01/2015

DUT: Dipole 900 MHz; SN: 1d168; Type: D900V2; Serial: SN1d168



0 dB = 2.81mW/g

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz HSL Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.15, 6.15, 6.15);
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn394; Calibrated: 16/05/2014
 - Phantom: SAM 12b (Site 56); Type: SAM 4.0; Serial: TP:1192
 - Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159
- d=15mm, Pin=250mW 2 2 2 /Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.83 mW/g

d=15mm, Pin=250mW 2 2 2 /Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 57.2 V/m; Power Drift = -0.111 dB

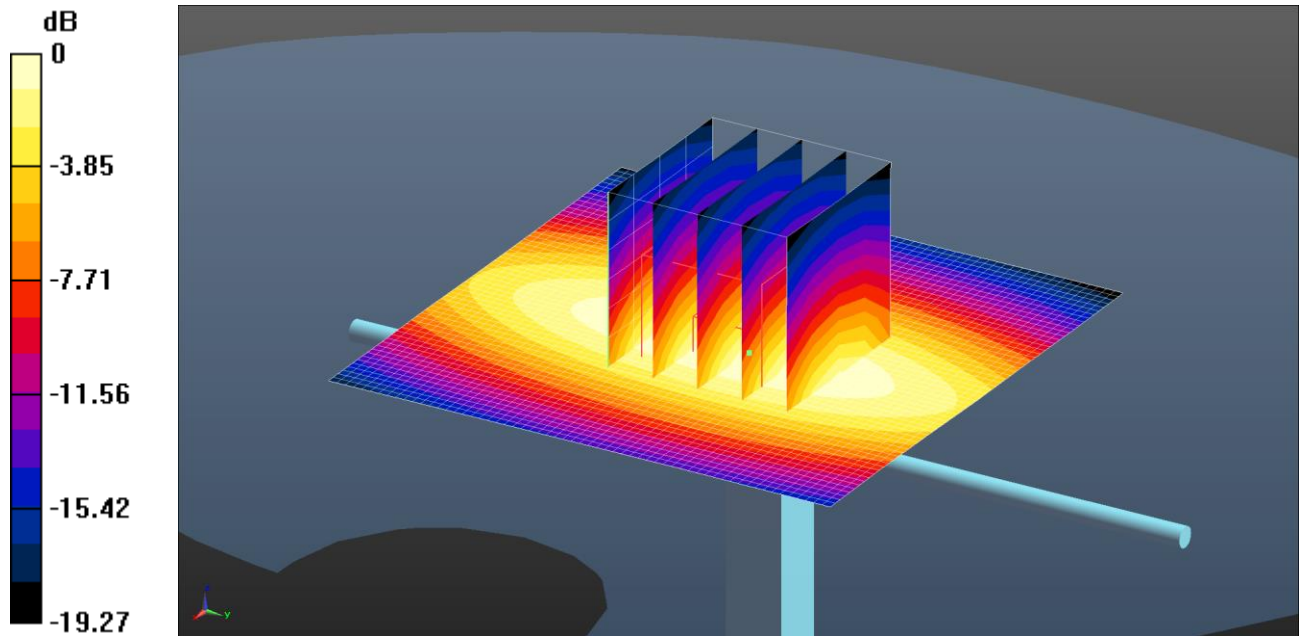
Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.59 mW/g; SAR(10 g) = 1.68 mW/g

Maximum value of SAR (measured) = 2.81 mW/g

004: System Performance Check 900MHz Body 19 01 15

Date: 19/01/15

DUT: Dipole 900 MHz; SN: 1d168; Type: D900V2; Serial: SN1d168

0 dB = 2.96 W/kg = 4.71 dBW/kg

Communication System: UID 0, CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.024 \text{ S/m}$; $\epsilon_r = 52.703$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(5.85, 5.85, 5.85); Calibrated: 22/05/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 16/05/14
- Phantom: SAM 12a (Site 56); Type: SAM 4.0; Serial: TP:1020
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=15mm, Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.96 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.40 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.72 W/kg

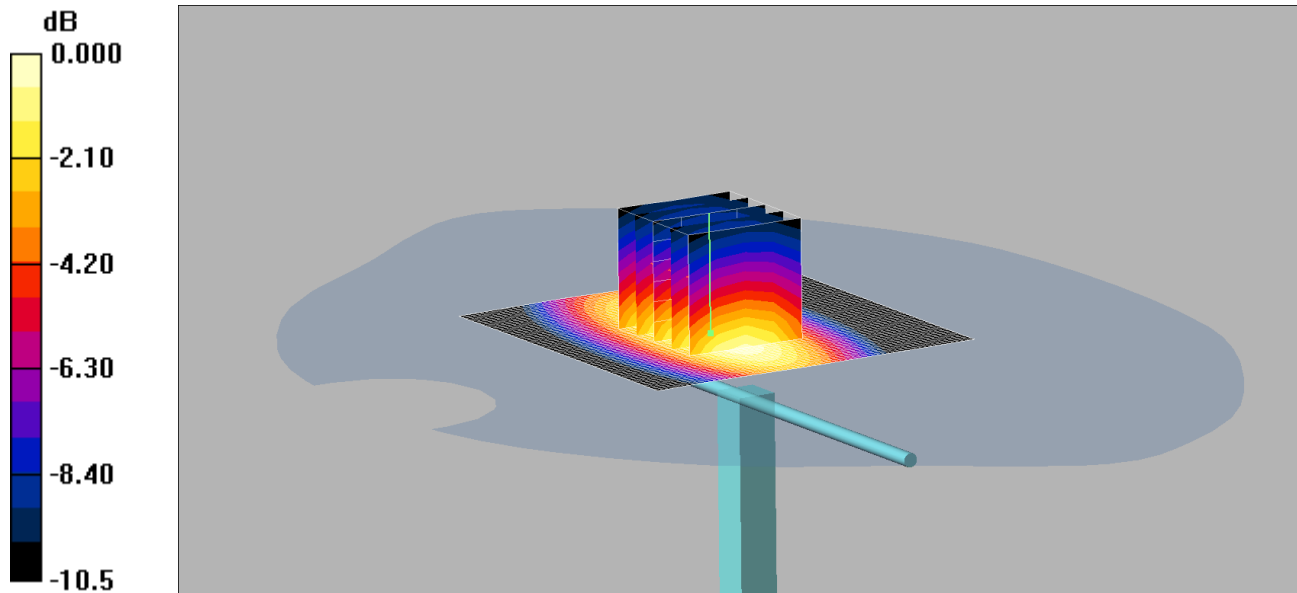
SAR(1 g) = 2.7 W/kg; SAR(10 g) = 1.78 W/kg

Maximum value of SAR (measured) = 2.93 W/kg

005: System Performance Check 900MHz Body 22 01 15

Date: 22/01/2015

DUT: Dipole 900 MHz; SN: 1d168; Type: D900V2; Serial: SN1d168



0 dB = 2.92mW/g

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used: $f = 900$ MHz; $\sigma = 1.04$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(5.85, 5.85, 5.85);

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 16/05/2014

- Phantom: SAM 12a (Site 56); Type: SAM 4.0; Serial: TP:1020

- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

d=15mm, Pin=250mW 2 2 2 2 2 2 2 2/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.97 mW/g

d=15mm, Pin=250mW 2 2 2 2 2 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.4 V/m; Power Drift = -0.203 dB

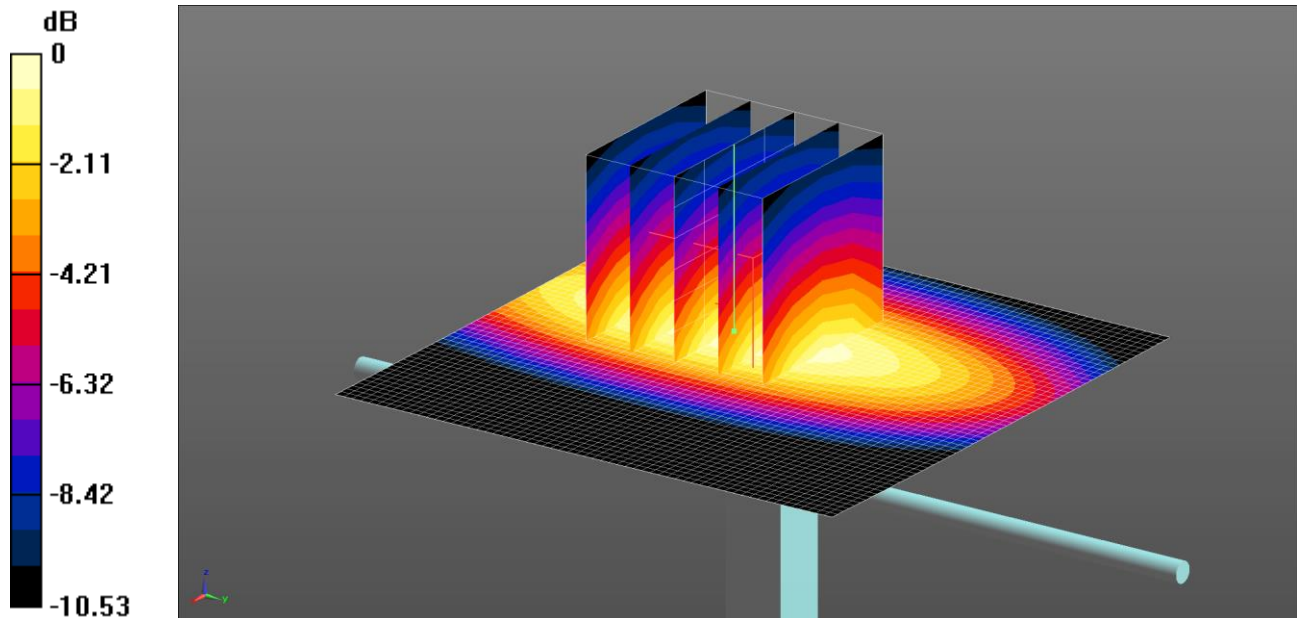
Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.78 mW/g

Maximum value of SAR (measured) = 2.92 mW/g

006: System Performance Check 900MHz Body 27 01 15

Date: 27/01/2015

DUT: Dipole 900 MHz; SN: 1d168; Type: D900V2; Serial: SN1d168

0 dB = 2.83 W/kg = 4.52 dBW/kg

Communication System: UID 0 - n/a, CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.013 \text{ S/m}$; $\epsilon_r = 54.496$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(9.85, 9.85, 9.85); Calibrated: 07/05/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.9 (7117)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.82 W/kg

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 49.279 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.91 W/kg

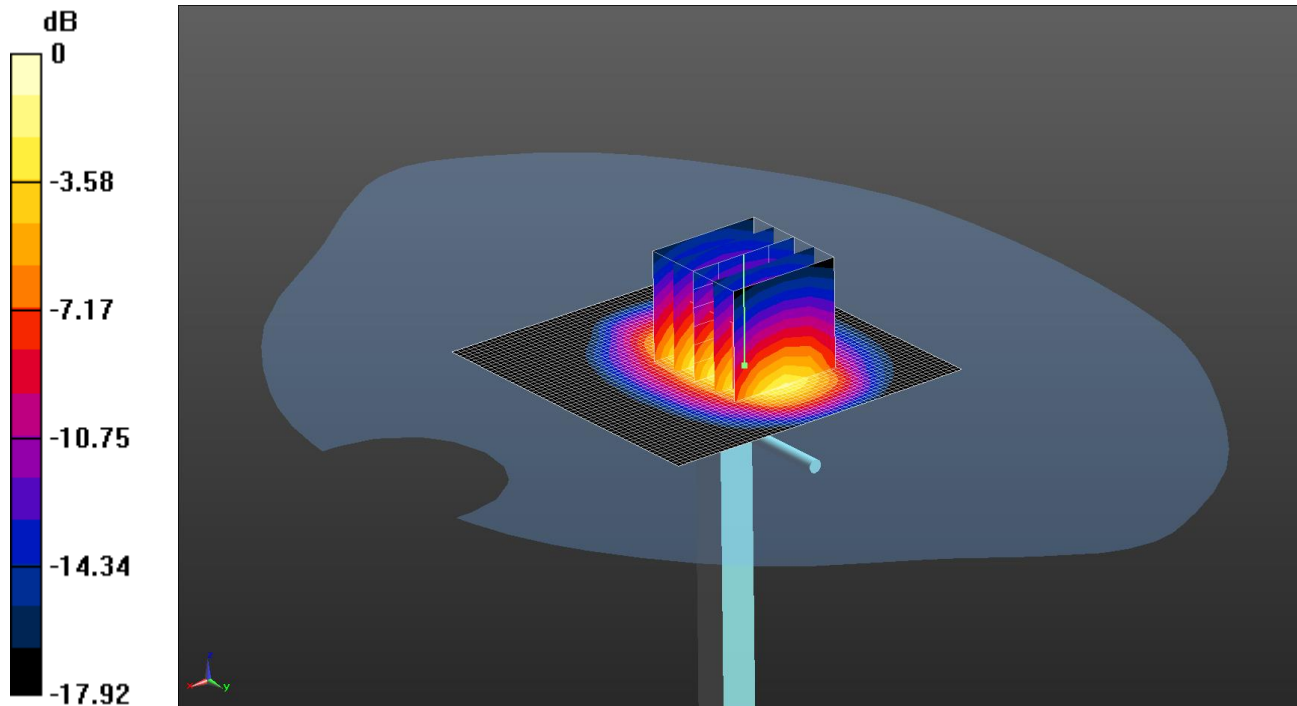
SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.7 W/kg

Maximum value of SAR (measured) = 2.83 W/kg

007: System Performance Check 1800MHz Head 20 01 15

Date: 20/01/2015

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 264



0 dB = 10.6 W/kg = 10.25 dBW/kg

Communication System: UID 0 - n/a, CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: 1800 MHz HSL Medium parameters used: $f = 1800$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 38.851$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(5.25, 5.25, 5.25); Calibrated: 16/04/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 04/11/2014
- Phantom: SAM B (Site 58); Type: Twin Phantom; Serial: TP:1020
- ; SEMCAD X Version 14.6.9 (7117)

SAR/d=10mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.4 W/kg

SAR/d=10mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.034 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 16.1 W/kg

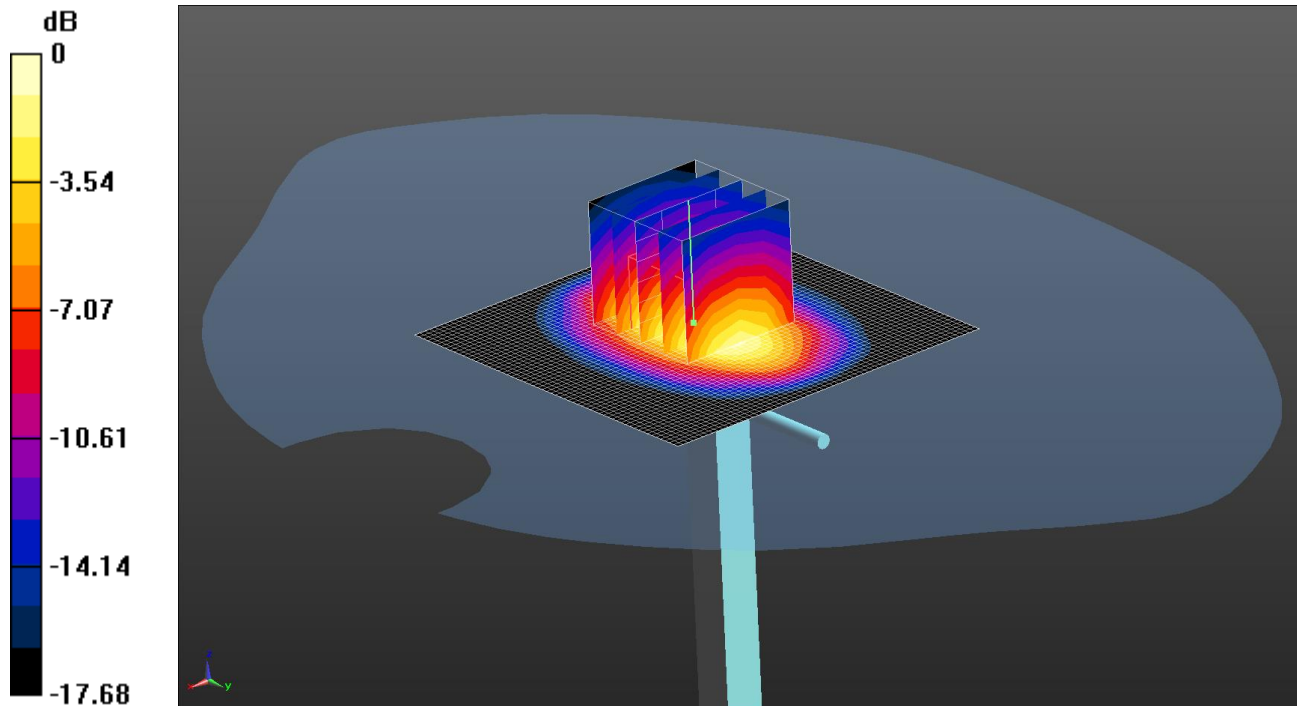
SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.95 W/kg

Maximum value of SAR (measured) = 10.6 W/kg

008: System Performance Check 1800MHz Body 22 01 15

Date: 22/01/2015

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 264



0 dB = 10.6 W/kg = 10.25 dBW/kg

Communication System: UID 0 - n/a, CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: 1800 MHz MSL Medium parameters used: $f = 1800$ MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 51.57$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.68, 4.68, 4.68); Calibrated: 16/04/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 04/11/2014
- Phantom: SAM A (Site 58); Type: QD000P40Ca; Serial: TP:1193
- ; SEMCAD X Version 14.6.9 (7117)

SAR/d=10mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.9 W/kg

SAR/d=10mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.874 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 15.5 W/kg

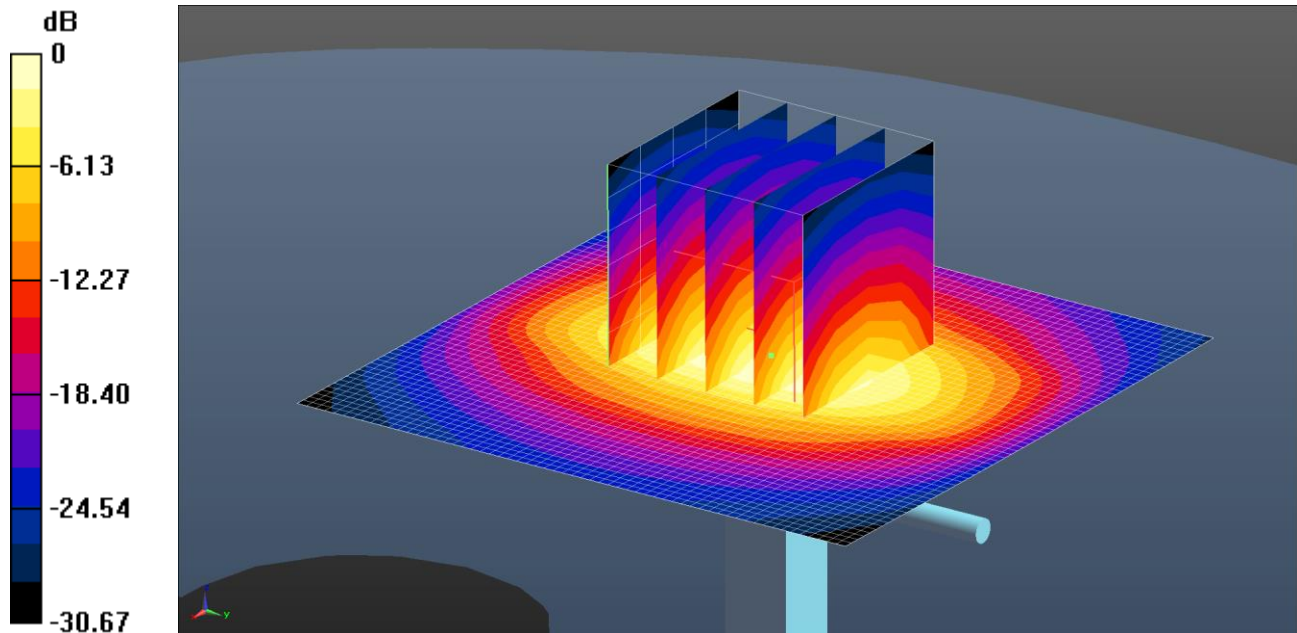
SAR(1 g) = 9.5 W/kg; SAR(10 g) = 5.09 W/kg

Maximum value of SAR (measured) = 10.6 W/kg

009: System Performance Check 1900MHz Head 29 12 14

Date: 29/12/14

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN: 537



0 dB = 12.0 W/kg = 10.79 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz HSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 39.712$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(5.07, 5.07, 5.07); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1836
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.0 W/kg

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.93 V/m; Power Drift = -0.01 dB

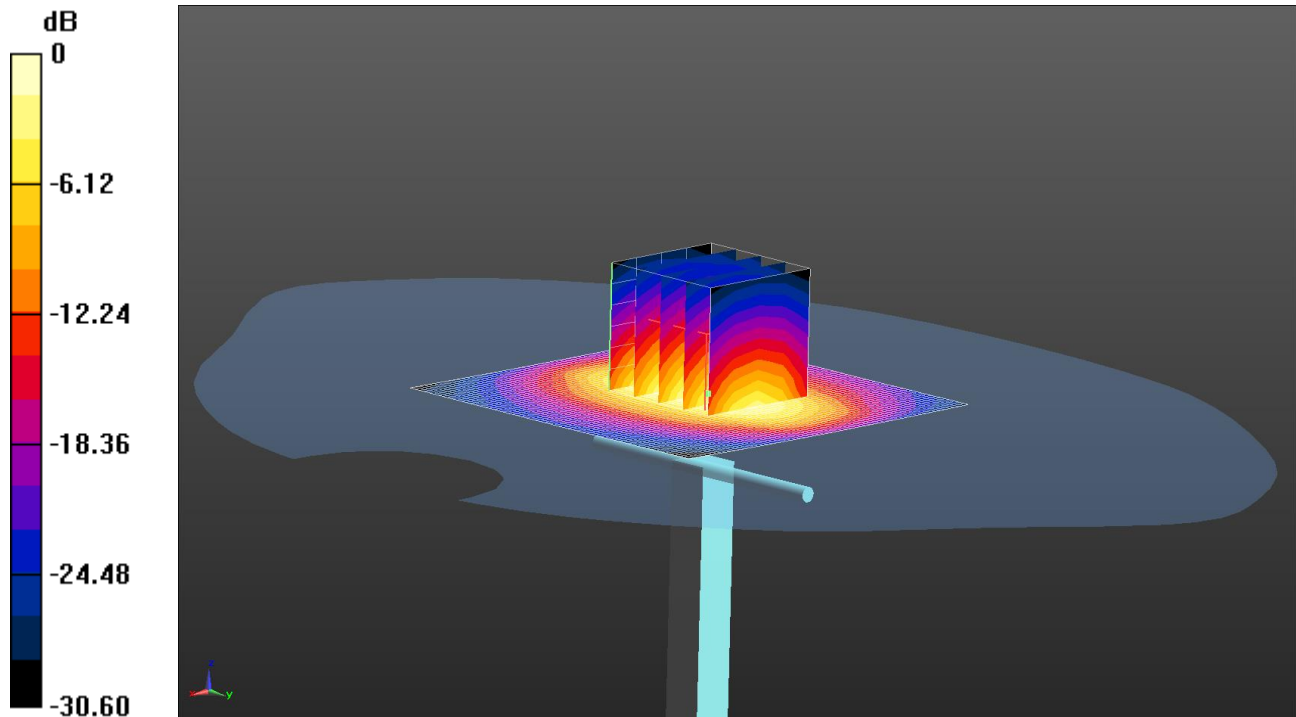
Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.26 W/kg

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

010: System Performance Check 1900MHz Head 26 01 15

Date: 26/01/15

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN: 540

0 dB = 11.9 W/kg = 10.75 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz HSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 38.587$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(5.07, 5.07, 5.07); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:1836
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.9 W/kg

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2 2 2 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.38 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.9 W/kg

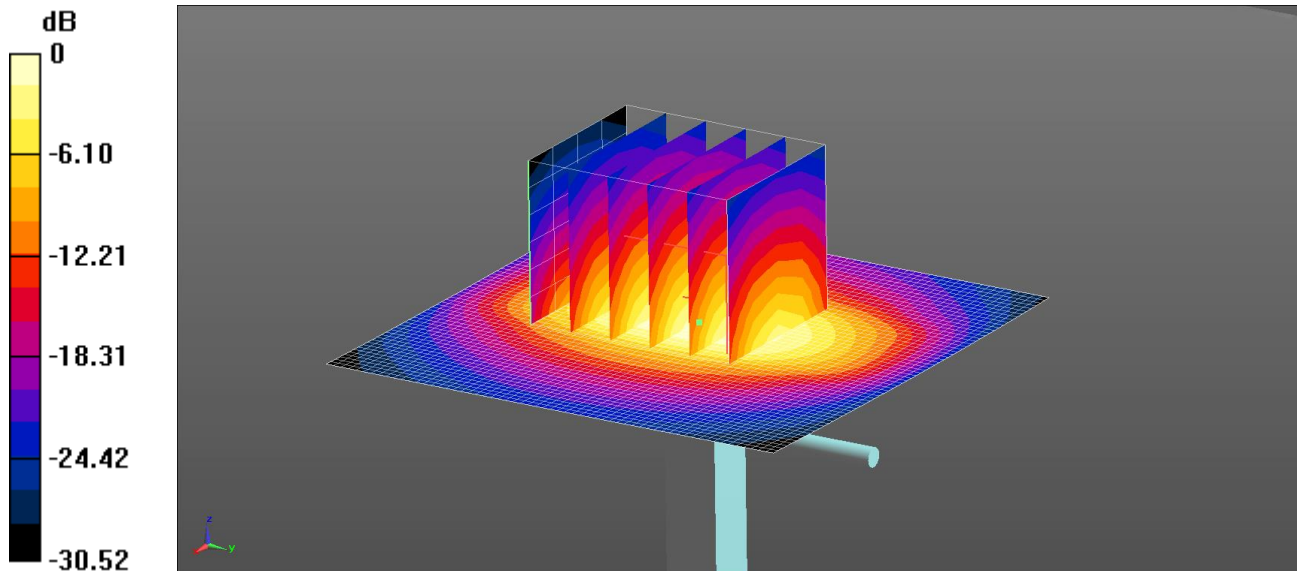
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.46 W/kg

Maximum value of SAR (measured) = 11.5 W/kg

011: System Performance Check 1900MHz Body 22 12 14

Date: 22/12/2014

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN537



0 dB = 11.7 W/kg = 10.70 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 50.993$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(4.69, 4.69, 4.69); Calibrated: 29/8/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/5/2014
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.04 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 18.0 W/kg

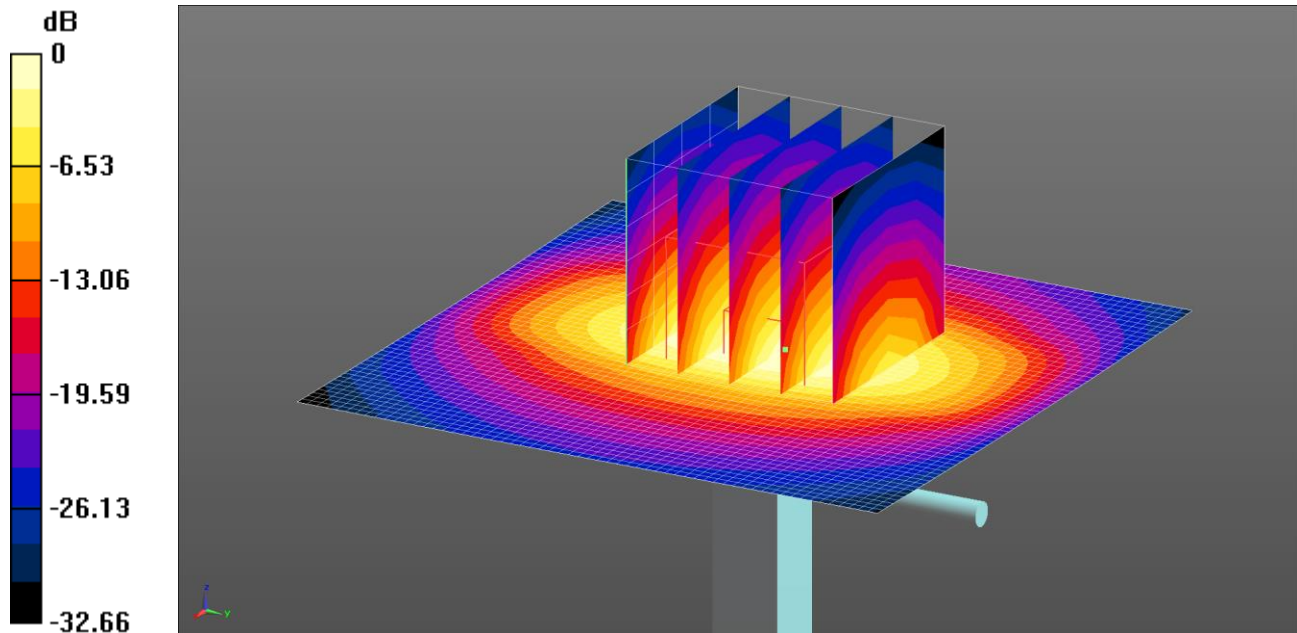
SAR(1 g) = 10 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 11.4 W/kg

012: System Performance Check 1900MHz Body 15 01 15

Date: 14/01/15

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.5 W/kg = 10.60 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.543$ S/m; $\epsilon_r = 52.103$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(4.69, 4.69, 4.69); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.5 W/kg

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 86.67 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 17.7 W/kg

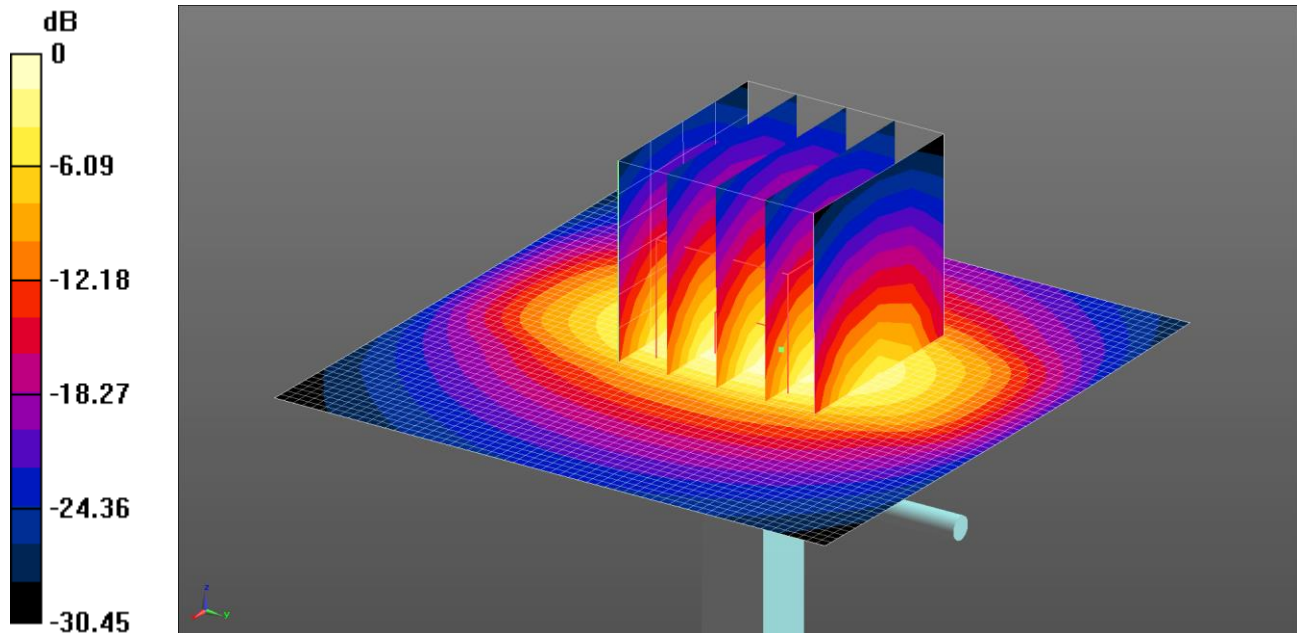
SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (measured) = 11.1 W/kg

013: System Performance Check 1900MHz Body 19 01 15

Date: 19/01/15

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.6 W/kg = 10.64 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.49$ S/m; $\epsilon_r = 51.618$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(4.69, 4.69, 4.69); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.22 V/m; Power Drift = -0.04 dB

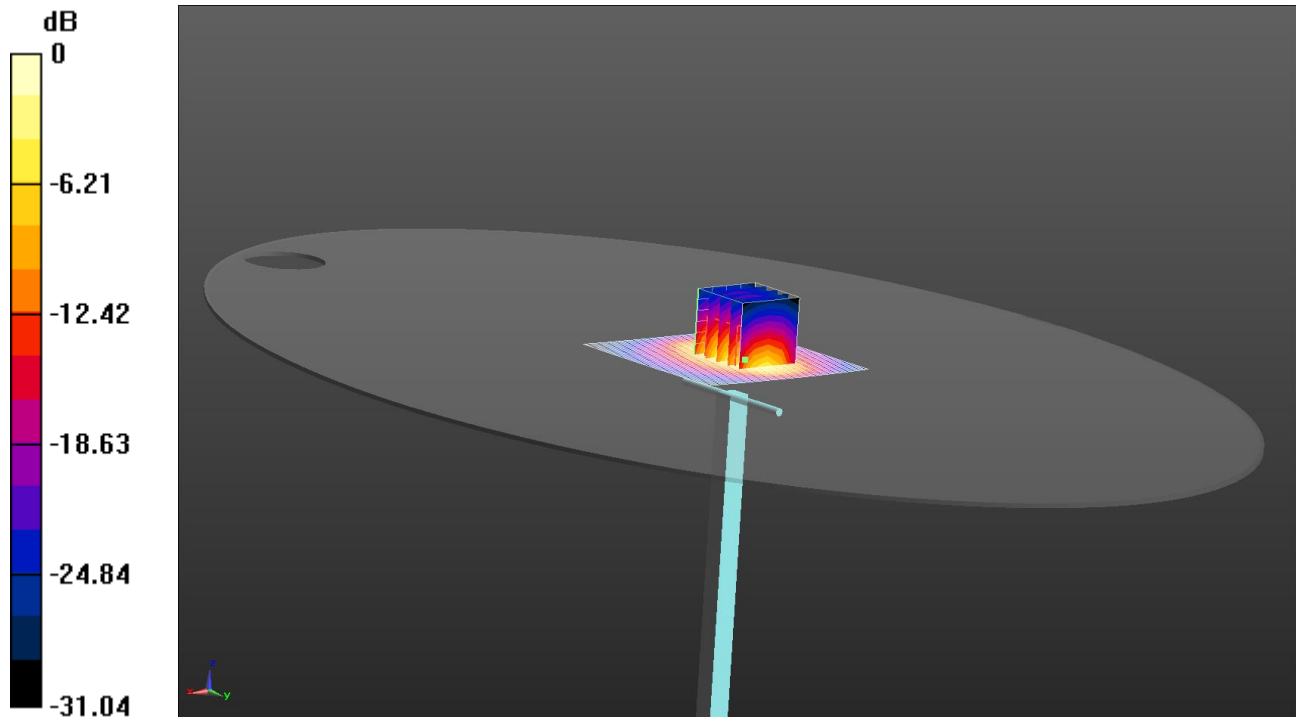
Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.04 W/kg

Maximum value of SAR (measured) = 10.9 W/kg

014: System Performance Check 1900MHz Body 22 01 15

Date: 22/01/15

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540

0 dB = 11.7 W/kg = 10.67 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.548$ S/m; $\epsilon_r = 51.743$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(4.69, 4.69, 4.69); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 86.01 V/m; Power Drift = -0.01 dB

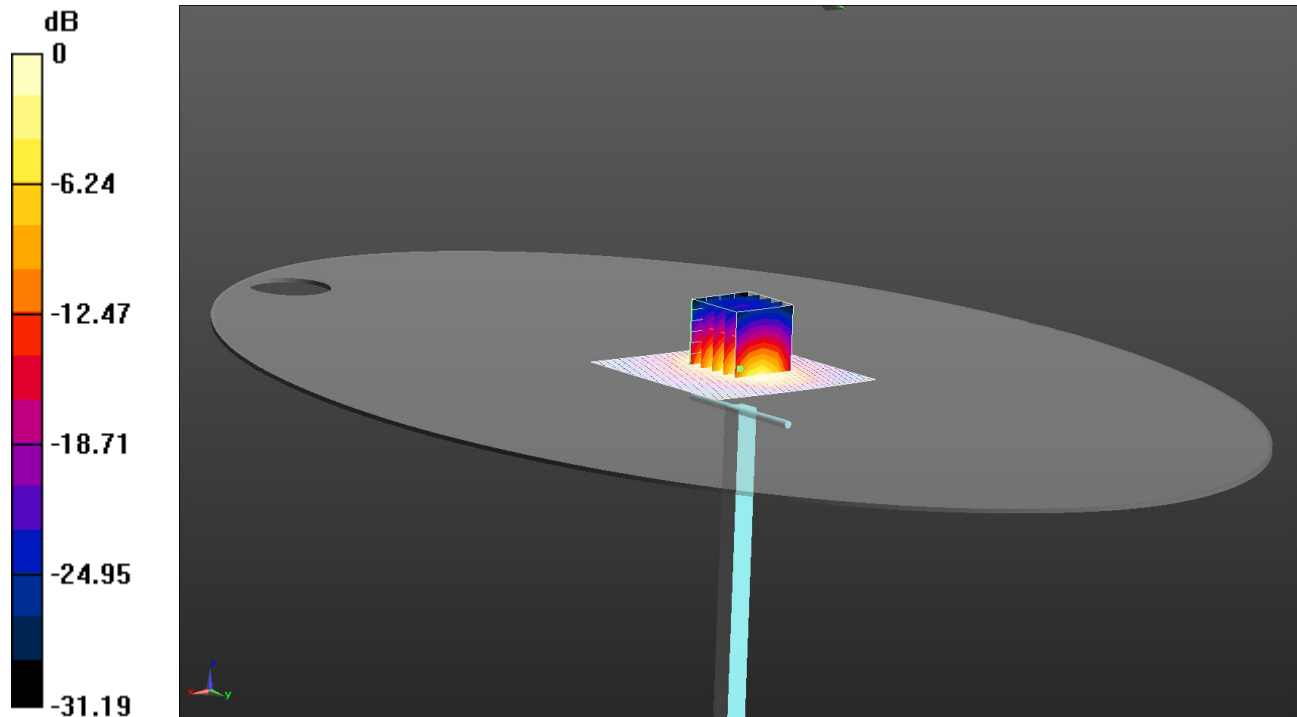
Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.16 W/kg

Maximum value of SAR (measured) = 11.0 W/kg

015: System Performance Check 1900MHz Body 26 01 15

Date: 26/01/15

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540

0 dB = 11.7 W/kg = 10.68 dBW/kg

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.563$ S/m; $\epsilon_r = 51.308$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3335; ConvF(4.69, 4.69, 4.69); Calibrated: 29/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1438; Calibrated: 12/05/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

SAR/d=15mm, Pin=250 mW, dist=10.0mm (ET-Probe) 2 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.12 V/m; Power Drift = 0.01 dB

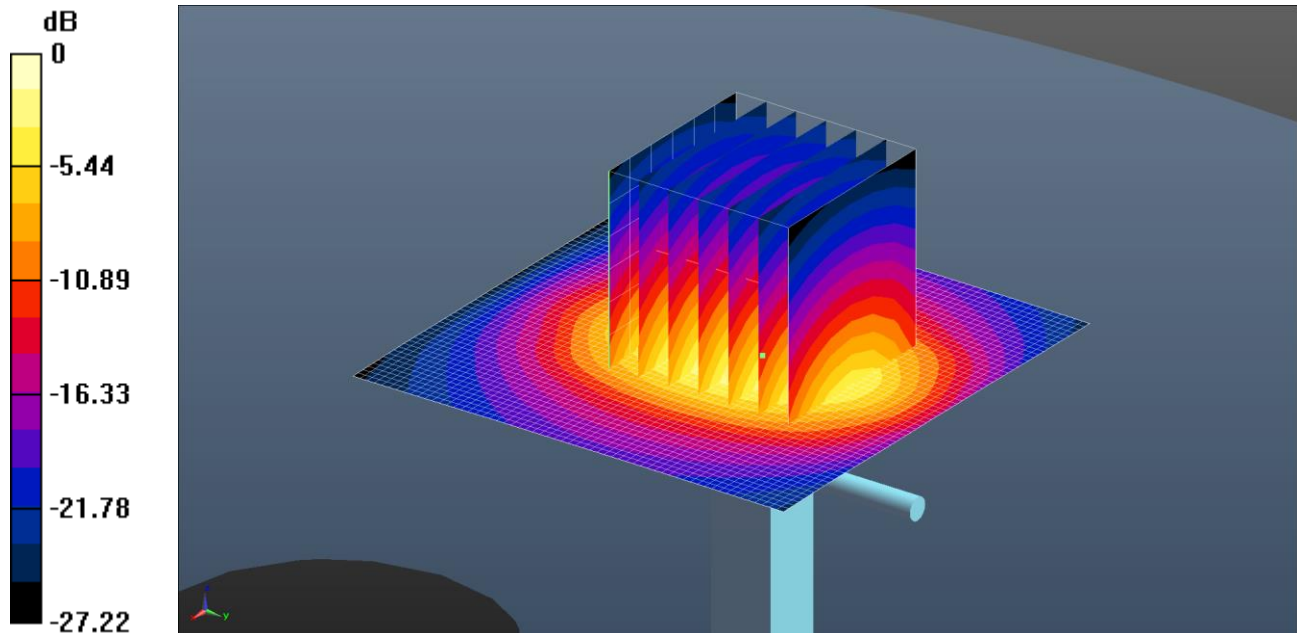
Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.16 W/kg

Maximum value of SAR (measured) = 11.1 W/kg

016: System Performance Check 2450MHz Head 05 01 15

Date: 05/01/15

DUT: Dipole 2440 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

0 dB = 16.6 W/kg = 12.19 dBW/kg

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz HSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 40.236$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.48, 4.48, 4.48); Calibrated: 21/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 20/08/14
- Phantom: SAM 12b (Site 57); Type: SAM 4.0; Serial: TP:1031
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=10mm, Pin=250mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Configuration/d=10mm, Pin=250mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.92 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 28.6 W/kg

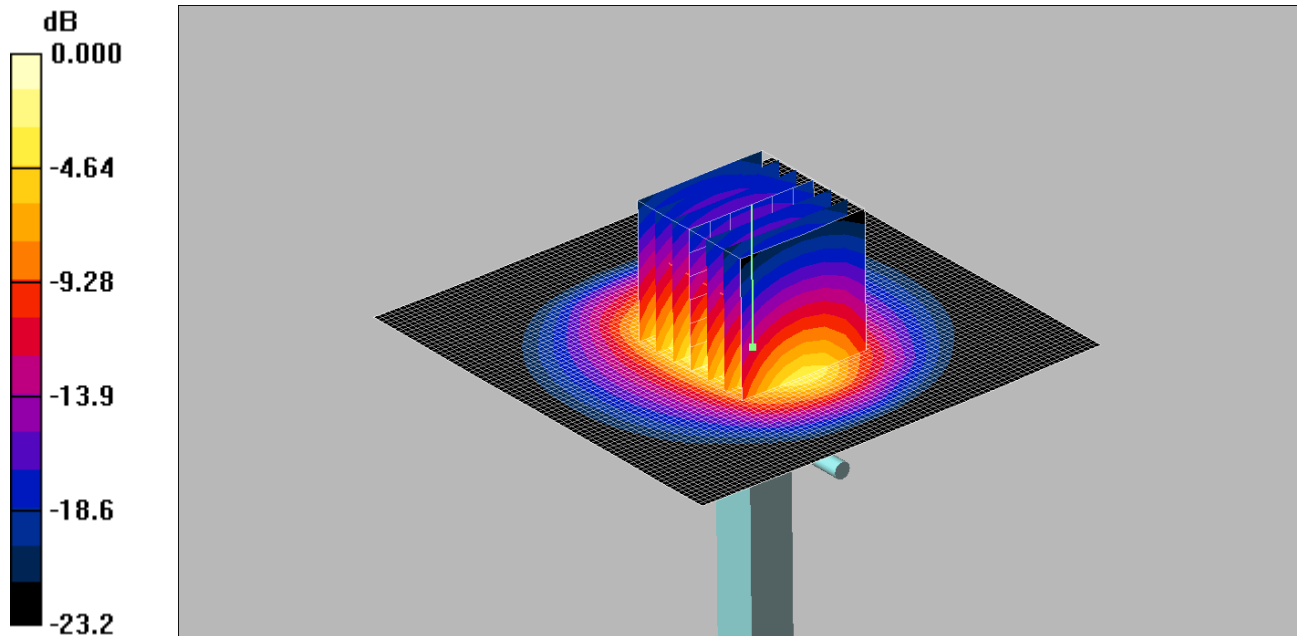
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.94 W/kg

Maximum value of SAR (measured) = 15.0 W/kg

017: System Performance Check 2450MHz Body 22 01 15

Date: 22/01/2015

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



0 dB = 14.2mW/g

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.24, 4.24, 4.24);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 20/08/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW 2 2 2 2/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 14.9 mW/g

d=10mm, Pin=250mW 2 2 2 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 81.0 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 27.1 W/kg

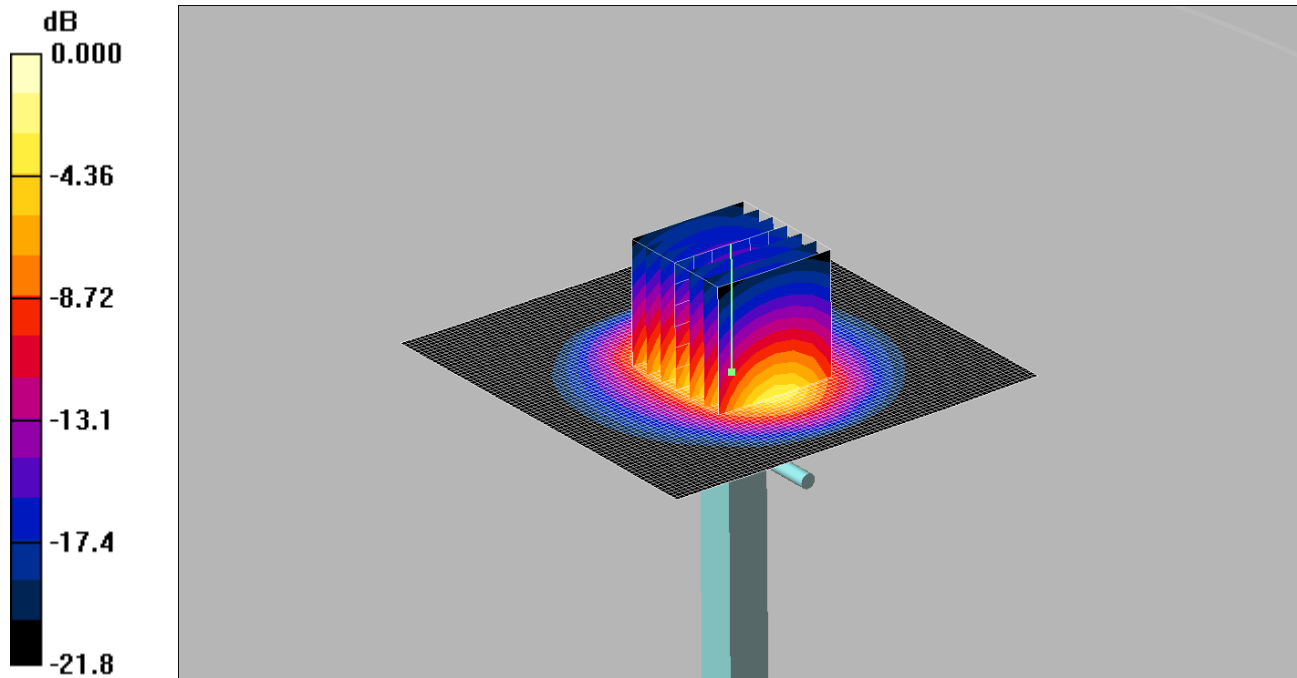
SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.75 mW/g

Maximum value of SAR (measured) = 14.2 mW/g

018: System Performance Check 2450MHz Body 26 01 15

Date: 26/01/2015

DUT: Dipole 2450 MHz; Type: D2440V2; Serial: D2440V2 - SN:725



0 dB = 14.2mW/g

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.24, 4.24, 4.24);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 20/08/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 14.0 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 81.8 V/m; Power Drift = -0.068 dB

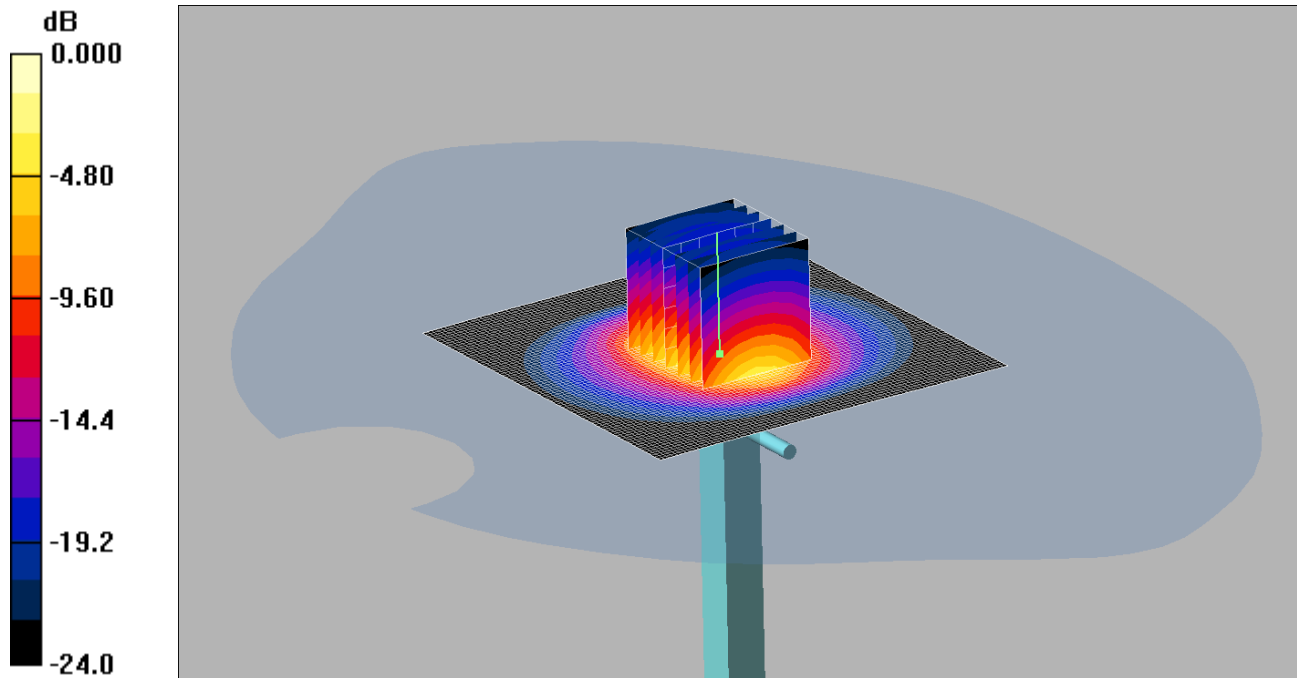
Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 12.5 mW/g; SAR(10 g) = 5.76 mW/g

Maximum value of SAR (measured) = 14.2 mW/g

019: System Performance Check 2600MHz Head 26 01 15

Date: 26/01/2015

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1046

0 dB = 16.2mW/g

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2600 MHz HSL Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.4, 4.4, 4.4);

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn432; Calibrated: 20/08/2014

- Phantom: SAM 12b (Site 57); Type: SAM 4.0; Serial: TP:1031

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW 2 2 2/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 14.5 mW/g

d=10mm, Pin=250mW 2 2 2/Zoom Scan (7x7x7) 2 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 85.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 31.8 W/kg

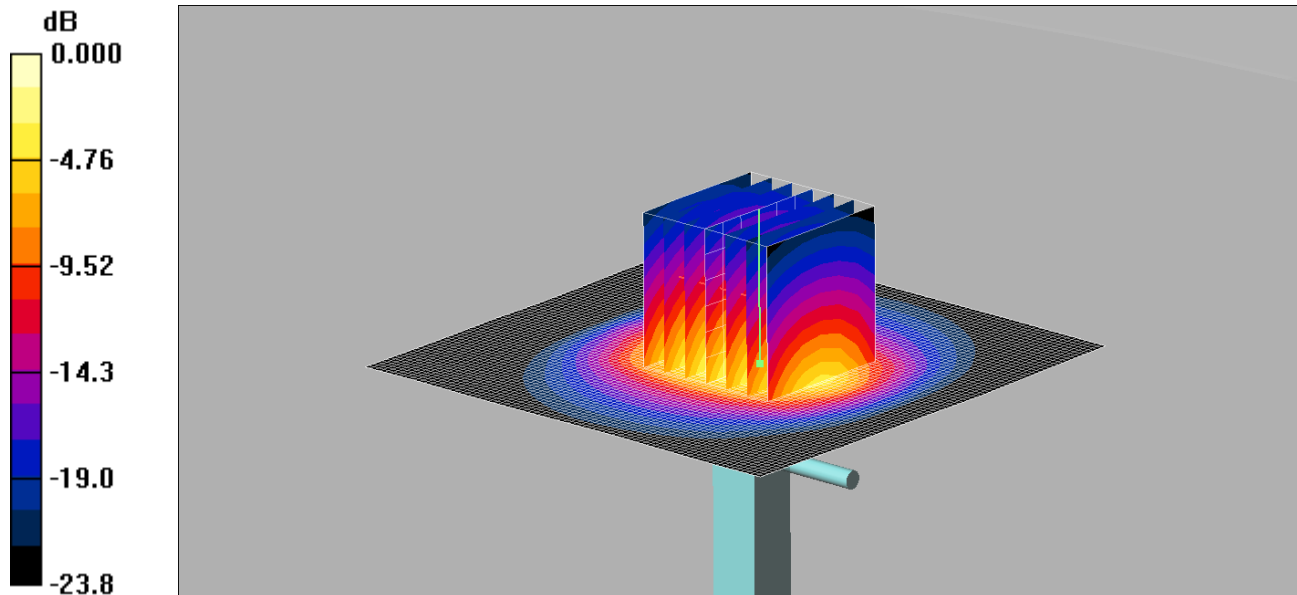
SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.3 mW/g

Maximum value of SAR (measured) = 16.2 mW/g

020: System Performance Check 2600MHz Body 13 01 15

Date: 13/01/2015

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1046



0 dB = 16.9mW/g

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2600 MHz MSL Medium parameters used: $f = 2600$ MHz; $\sigma = 2.21$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.12, 4.12, 4.12);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 20/08/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW 2 2 2 2/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.7 mW/g

d=10mm, Pin=250mW 2 2 2 2/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 85.7 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 33.1 W/kg

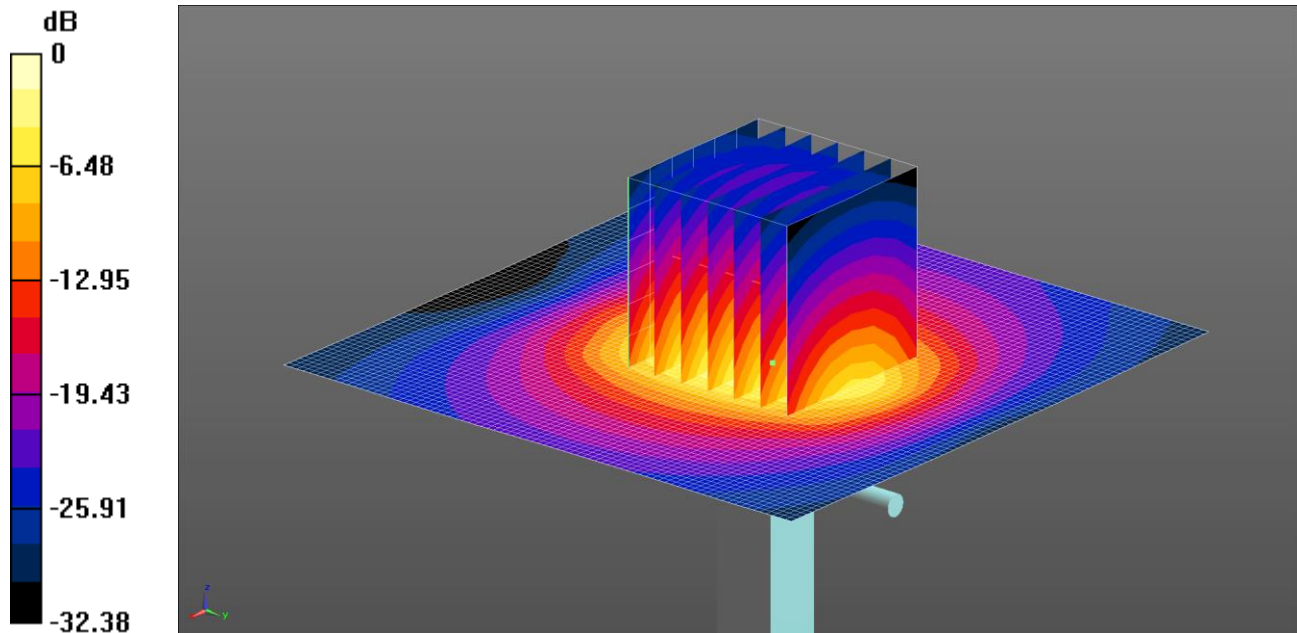
SAR(1 g) = 14.8 mW/g; SAR(10 g) = 6.54 mW/g

Maximum value of SAR (measured) = 16.9 mW/g

021: System Performance Check 2600MHz Body 16 01 15

Date: 16/01/15

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1046



0 dB = 17.1 W/kg = 12.33 dBW/kg

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2600 MHz MSL Medium parameters used: $f = 2600$ MHz; $\sigma = 2.178$ S/m; $\epsilon_r = 50.629$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.12, 4.12, 4.12); Calibrated: 21/08/14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 20/08/14
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=10mm, Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.84 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.4 W/kg

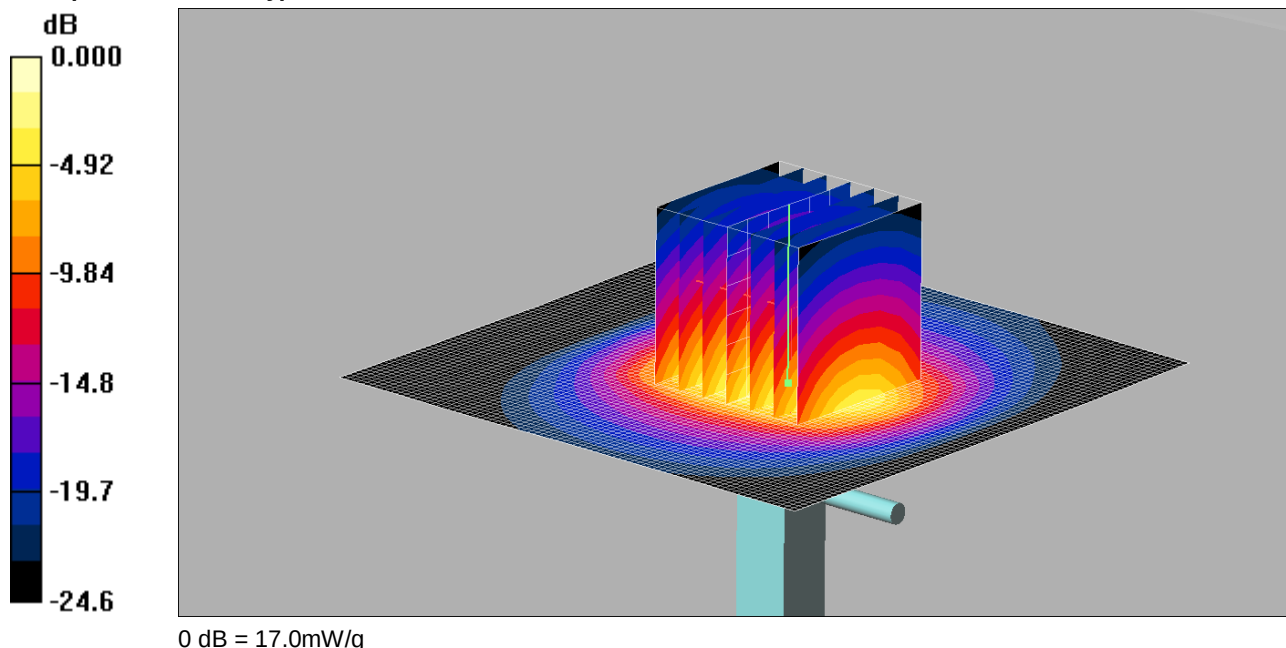
SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.31 W/kg

Maximum value of SAR (measured) = 16.4 W/kg

022: System Performance Check 2600MHz Body 19 01 15

Date: 19/01/2015

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1046



Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2600 MHz MSL Medium parameters used: $f = 2600$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3304; ConvF(4.12, 4.12, 4.12);

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn432; Calibrated: 20/08/2014

- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW 2 2 2 2/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 18.3 mW/g

d=10mm, Pin=250mW 2 2 2 2/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.7 V/m; Power Drift = -0.274 dB

Peak SAR (extrapolated) = 34.3 W/kg

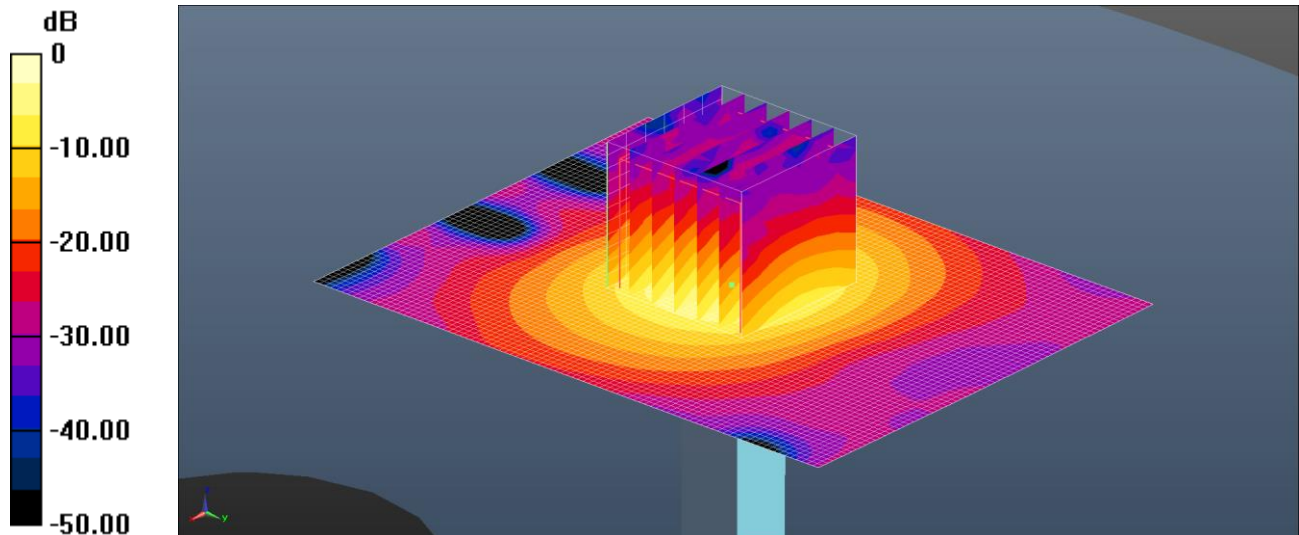
SAR(1 g) = 14.9 mW/g; SAR(10 g) = 6.43 mW/g

Maximum value of SAR (measured) = 17.0 mW/g

023: System Performance Check 5200 MHz Head 06 02 15

Date: 06/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 16.8 W/kg = 12.25 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5200$ MHz; $\sigma = 4.668$ S/m; $\epsilon_r = 35.617$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(5.35, 5.35, 5.35); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Configuration/d=10mm, Pin=100mW/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 41.638 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 36.2 W/kg

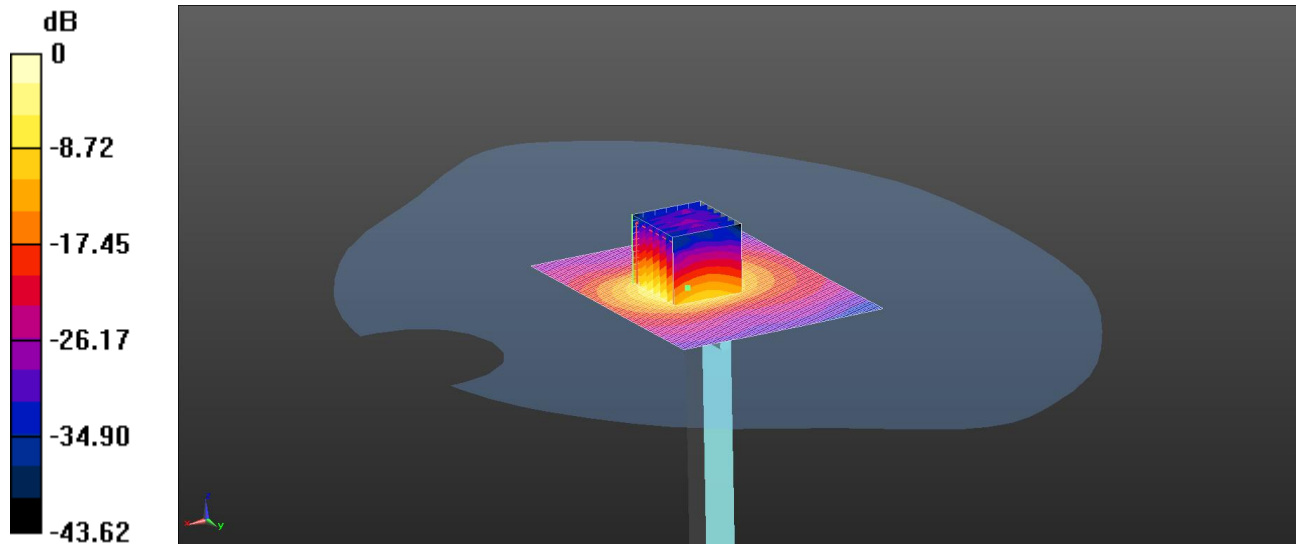
SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 16.8 W/kg

024: System Performance Check 5200 MHz Head 16 02 15

Date: 16/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 15.9 W/kg = 12.01 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5200$ MHz; $\sigma = 4.608$ S/m; $\epsilon_r = 35.207$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(5.35, 5.35, 5.35); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW /Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

Configuration/d=10mm, Pin=100mW /Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.513 V/m; Power Drift = -0.67 dB

Peak SAR (extrapolated) = 28.1 W/kg

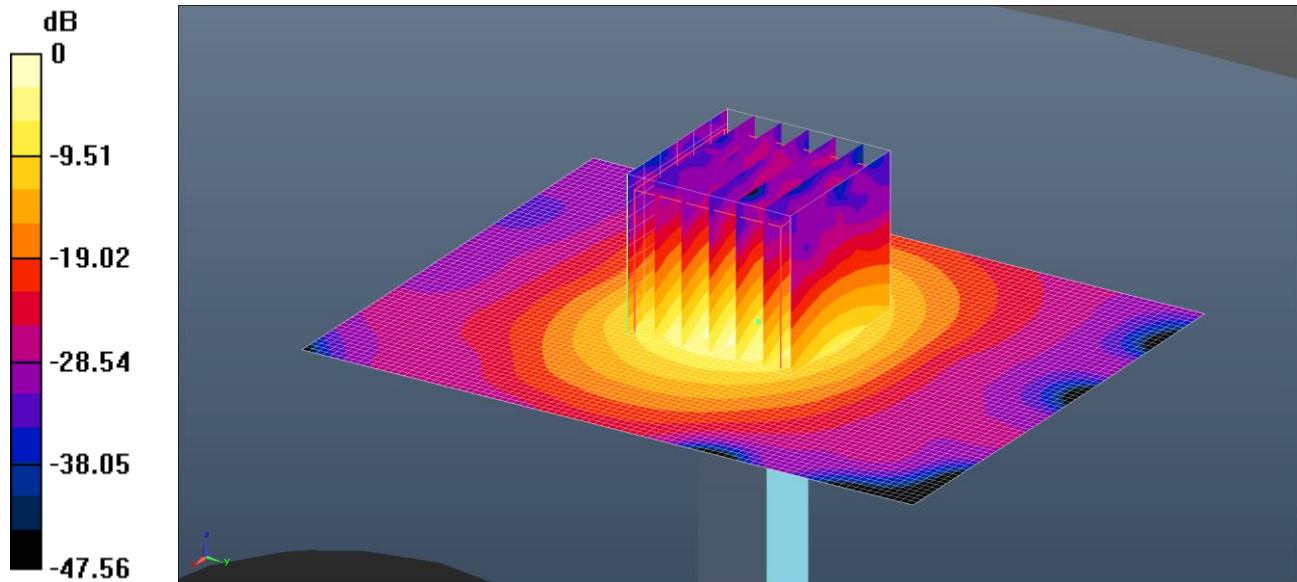
SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 15.9 W/kg

025: System Performance Check 5500 MHz Head 06 02 15

Date: 06/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 18.0 W/kg = 12.55 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5500$ MHz; $\sigma = 4.982$ S/m; $\epsilon_r = 35.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(5.03, 5.03, 5.03); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

Configuration/d=10mm, Pin=100mW 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 41.882 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 37.9 W/kg

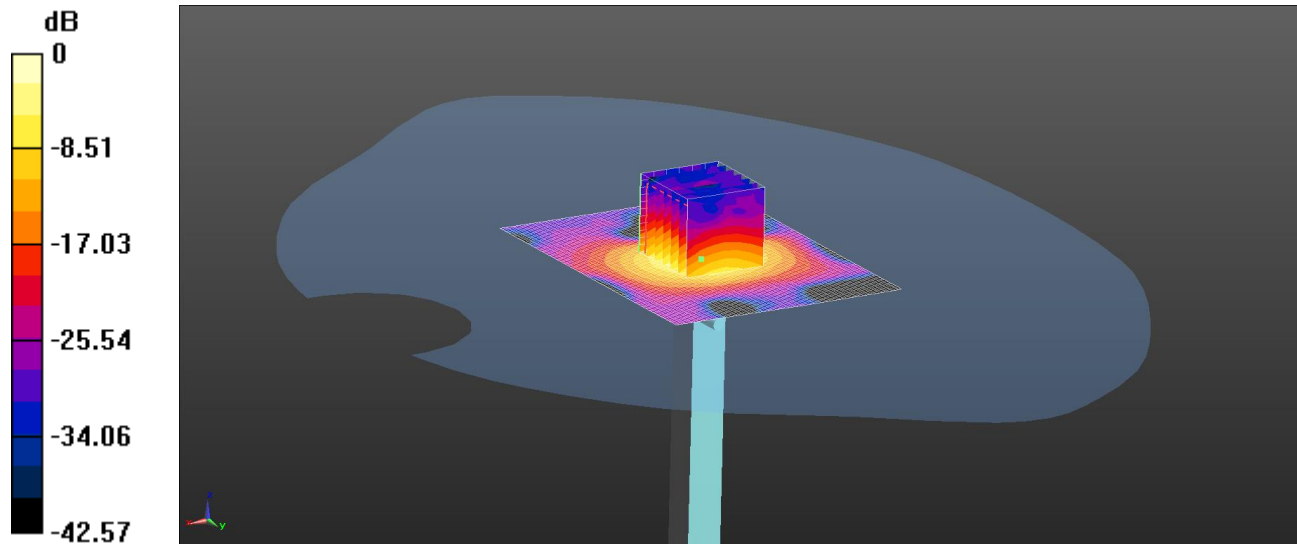
SAR(1 g) = 8.58 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 18.0 W/kg

026: System Performance Check 5500 MHz Head 16 02 15

Date : 16/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 17.8 W/kg = 12.50 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5500$ MHz; $\sigma = 4.911$ S/m; $\epsilon_r = 34.872$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(5.03, 5.03, 5.03); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.1 W/kg

Configuration/d=10mm, Pin=100mW 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 44.544 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 36.7 W/kg

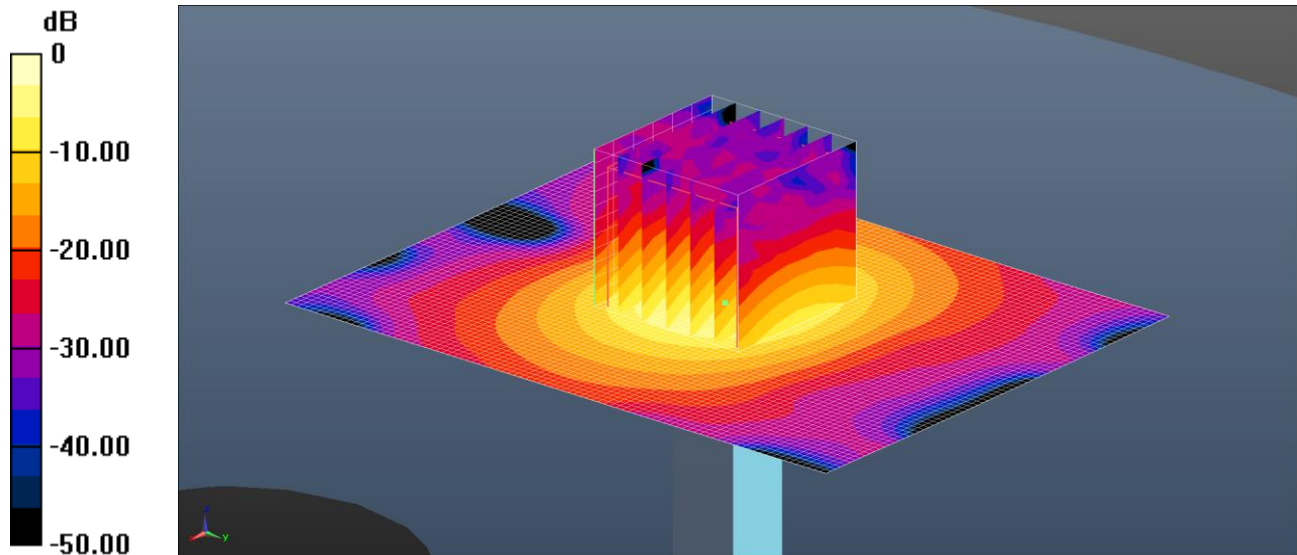
SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 17.8 W/kg

027: System Performance Check 5800 MHz Head 06 02 15

Date: 06/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 16.9 W/kg = 12.28 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5800$ MHz; $\sigma = 5.291$ S/m; $\epsilon_r = 34.68$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.77, 4.77, 4.77); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Configuration/d=10mm, Pin=100mW 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 39.231 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 36.7 W/kg

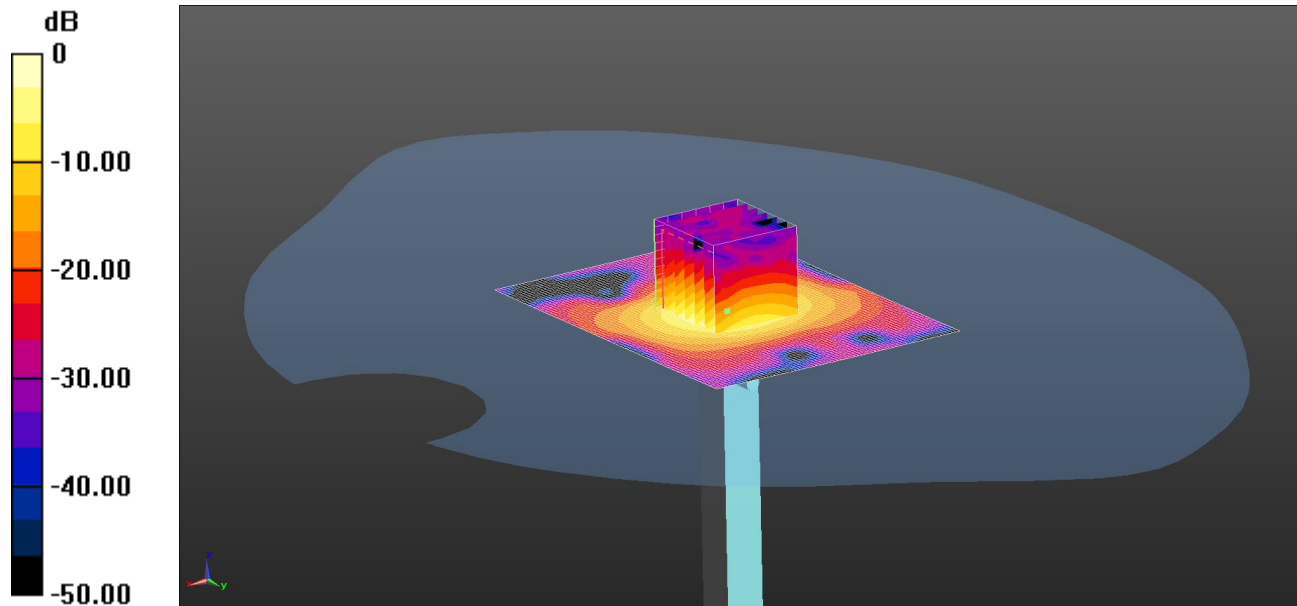
SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.19 W/kg

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

028: System Performance Check 5800 MHz Head 16 02 15

Date : 16/02/2015

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 17.2 W/kg = 12.36 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz HSL Medium parameters used: $f = 5800$ MHz; $\sigma = 5.247$ S/m; $\epsilon_r = 34.438$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3994; ConvF(4.77, 4.77, 4.77); Calibrated: 07/05/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 16/09/2014
- Phantom: SAM (30deg probe tilt) with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7164)

Configuration/d=10mm, Pin=100mW 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.8 W/kg

Configuration/d=10mm, Pin=100mW 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 42.024 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 36.4 W/kg

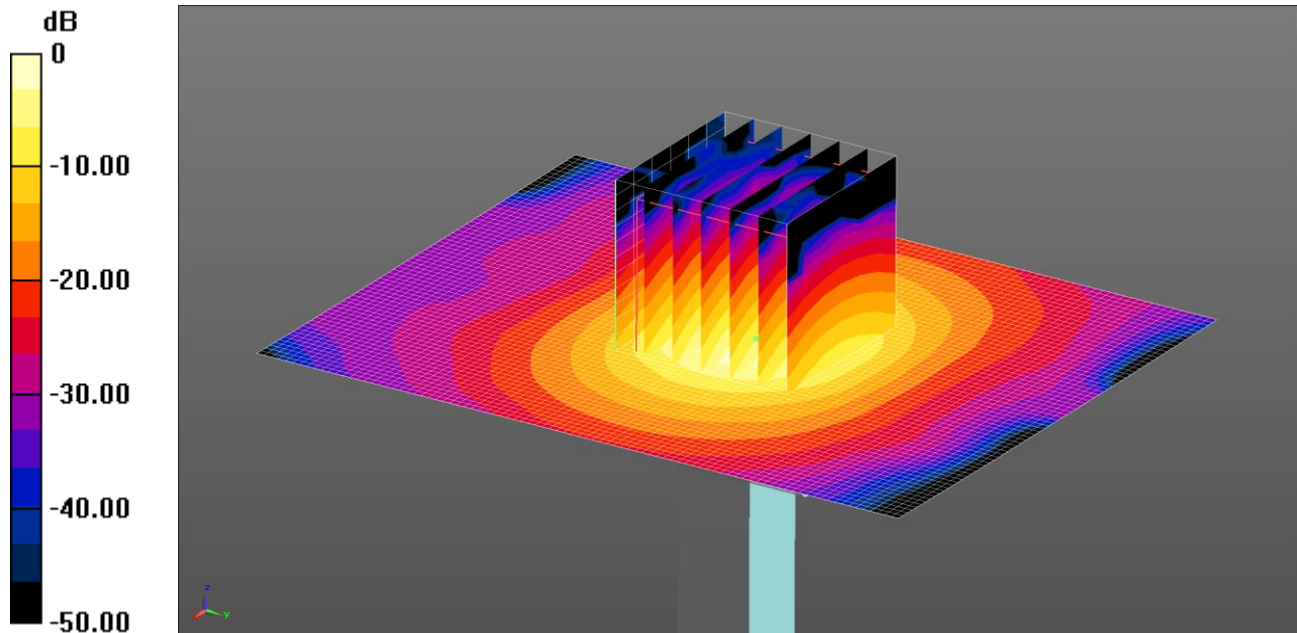
SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.2 W/kg

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

029: System Performance Check 5200 MHz Body 21 01 15

Date: 21/01/15

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 15.6 W/kg = 11.93 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz MSL Medium parameters used: $f = 5200$ MHz; $\sigma = 5.125$ S/m; $\epsilon_r = 49.322$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(4.91, 4.91, 4.91); Calibrated: 09/05/14;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 15/04/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=10mm, Pin=100mW 2 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.5 W/kg

Configuration/d=10mm, Pin=100mW 2 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 39.40 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.8 W/kg

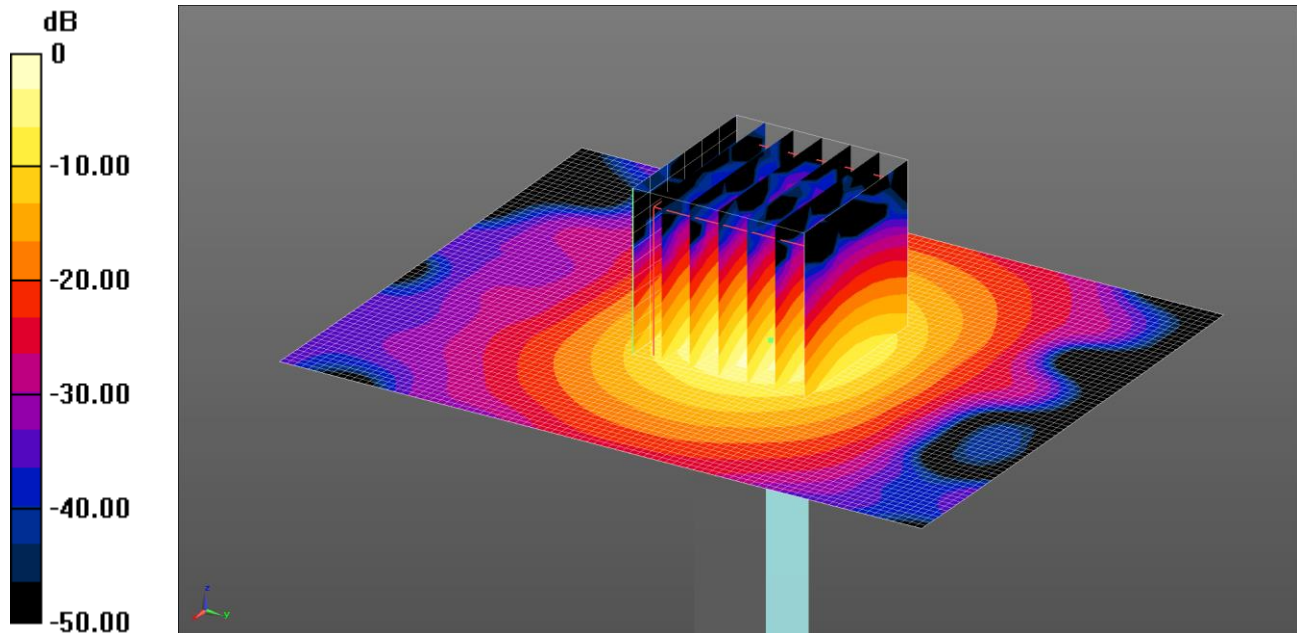
SAR(1 g) = 7.25 W/kg; SAR(10 g) = 1.99 W/kg

Maximum value of SAR (measured) = 15.6 W/kg

030: System Performance Check 5500 MHz Body 21 01 15

Date: 21/01/15

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 17.9 W/kg = 12.53 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz MSL Medium parameters used: $f = 5500$ MHz; $\sigma = 5.495$ S/m; $\epsilon_r = 48.632$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(4.39, 4.39, 4.39); Calibrated: 09/05/14;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 15/04/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=10mm, Pin=100mW/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Configuration/d=10mm, Pin=100mW/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 37.3 W/kg

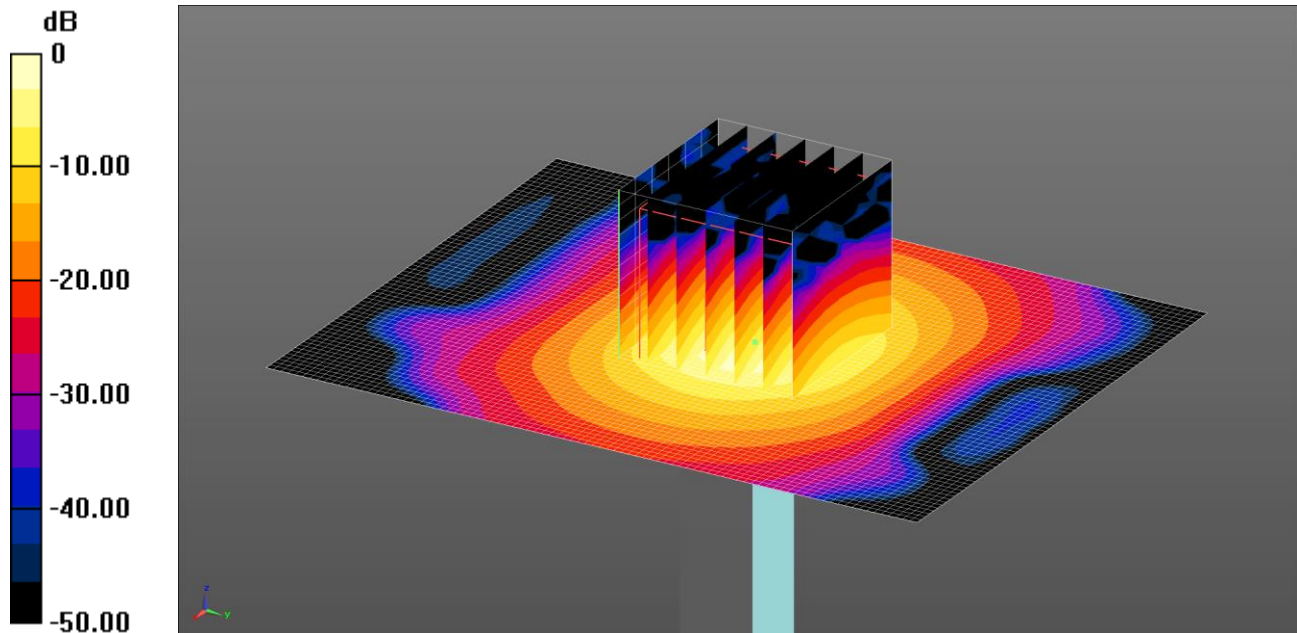
SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 17.9 W/kg

031: System Performance Check 5800 MHz Body 21 01 15

Date: 21/01/15

DUT: 5GHz Dipole; Type: D5GHzV2; Serial: SN 1016



0 dB = 15.8 W/kg = 11.99 dBW/kg

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: 5200/5500/5800 MHz MSL Medium parameters used: $f = 5800$ MHz; $\sigma = 6.029$ S/m; $\epsilon_r = 48.013$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3995; ConvF(4.35, 4.35, 4.35); Calibrated: 09/05/14;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1435; Calibrated: 15/04/14
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:xxxx
- ; SEMCAD X Version 14.6.10 (7331)

Configuration/d=10mm, Pin=100mW 2/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Configuration/d=10mm, Pin=100mW 2/Zoom Scan (7x7x12) (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 36.00 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 7.27 W/kg; SAR(10 g) = 1.99 W/kg

Maximum value of SAR (measured) = 15.8 W/kg