



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_835MHz_120511

DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_850_120511 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.929 \text{ mho/m}$; $\epsilon_r = 41.793$;

$\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $21.3 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(8.45, 8.45, 8.45); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of SAR (interpolated) = 2.640 mW/g

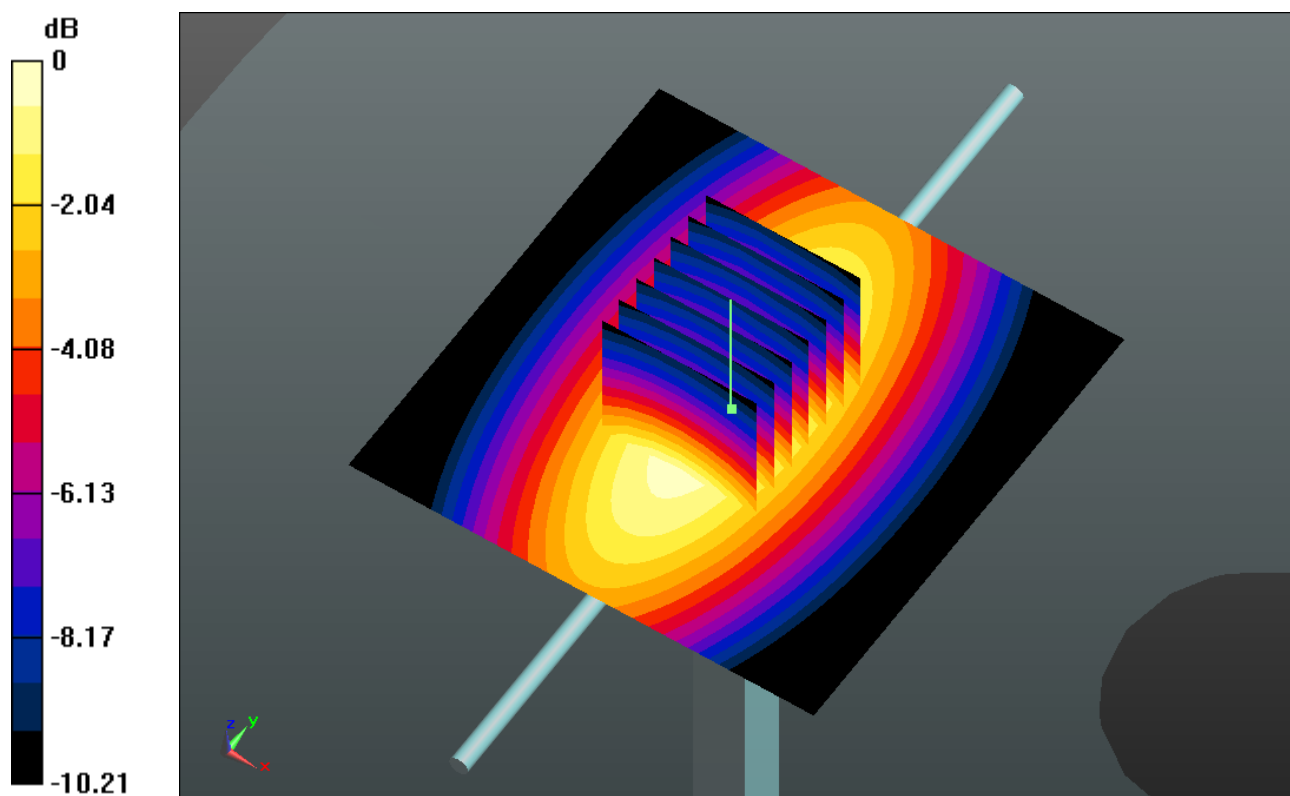
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.115 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.672 W/kg

SAR(1 g) = 2.45 mW/g ; SAR(10 g) = 1.61 mW/g

Maximum value of SAR (measured) = 2.636 mW/g



0 dB = 2.640mW/g

System Check_Head_1900MHz_120509

DUT: D1900V2 - SN: 5d118

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_120509 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.427$ mho/m; $\epsilon_r =$

41.191; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(7.46, 7.46, 7.46); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 10.757 mW/g

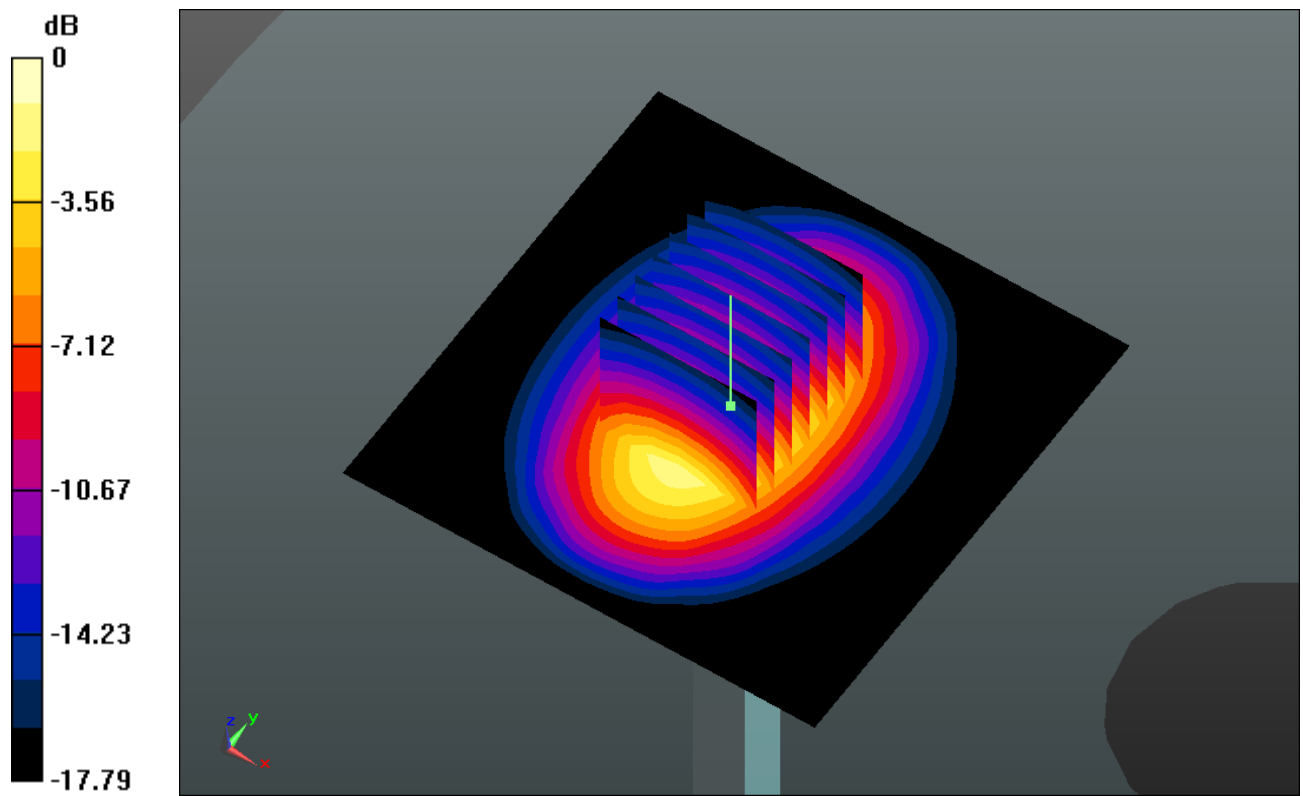
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.018 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.925 W/kg

SAR(1 g) = 9.38 mW/g; SAR(10 g) = 4.8 mW/g

Maximum value of SAR (measured) = 10.614 mW/g



0 dB = 10.610mW/g

System Check_Head_2450MHz_120522

DUT: D2450V2 - SN: 736

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

Medium: HSL_2450_120522 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.865$ mho/m; $\epsilon_r =$

37.492; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(6.67, 6.67, 6.67); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.135 mW/g

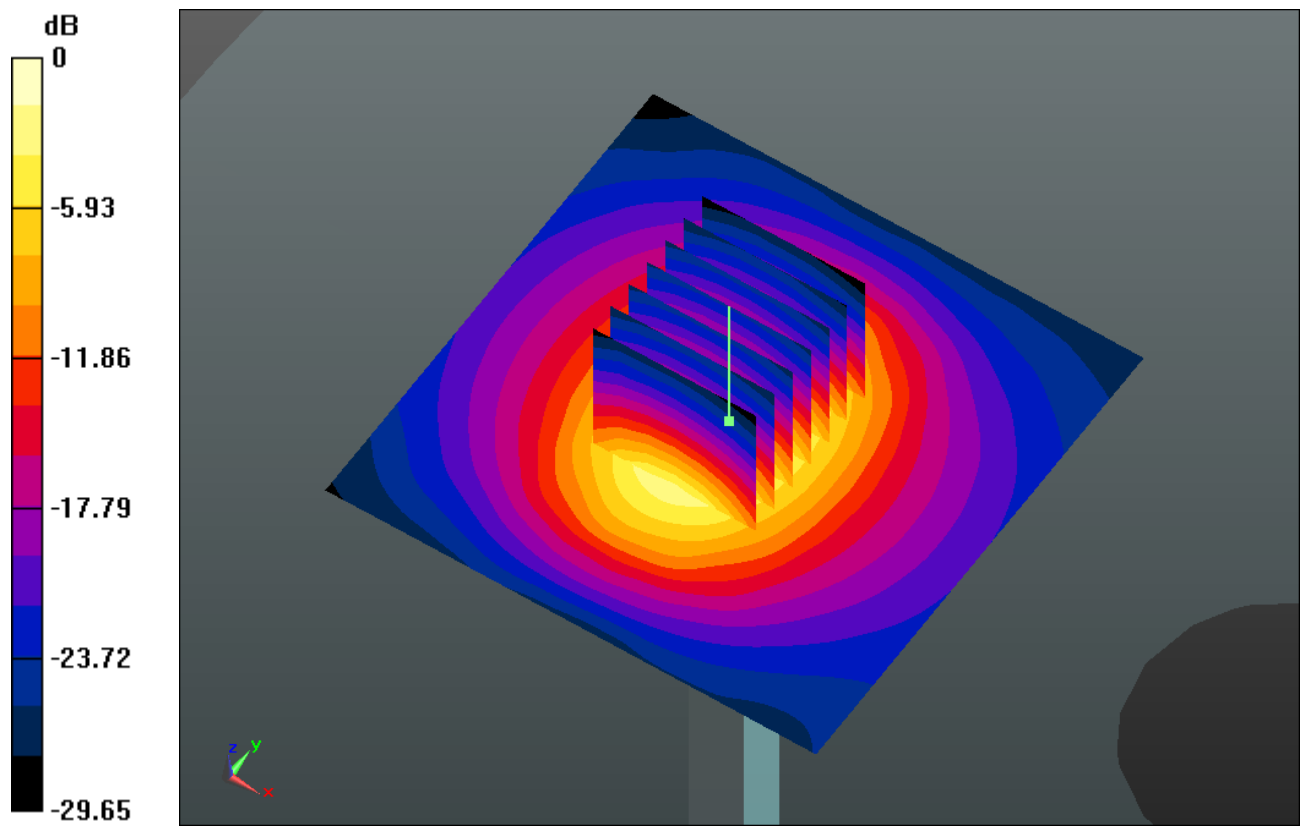
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.004 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 31.086 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.23 mW/g

Maximum value of SAR (measured) = 15.786 mW/g



0 dB = 16.130mW/g

System Check_Body_835MHz_120511

DUT: D835V2 - SN: 4d091

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_835_120511 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.975 \text{ mho/m}$; $\epsilon_r = 54.285$;

$\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5°C ; Liquid Temperature : 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(8.67, 8.67, 8.67); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

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

Maximum value of SAR (interpolated) = 2.645 mW/g

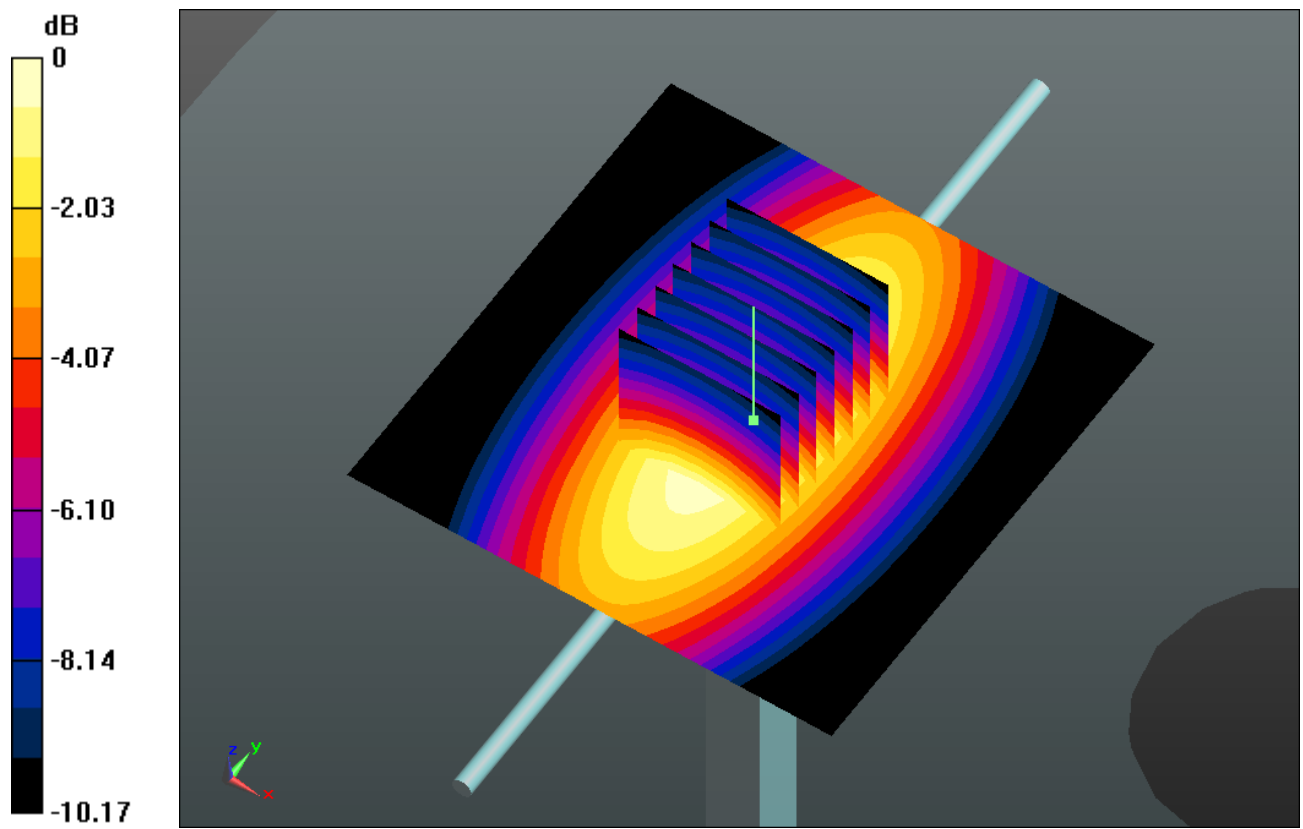
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.052 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.660 W/kg

SAR(1 g) = 2.46 mW/g ; SAR(10 g) = 1.61 mW/g

Maximum value of SAR (measured) = 2.648 mW/g



0 dB = 2.650mW/g

System Check_Body_1900MHz_120509

DUT: D1900V2 - SN: 5d118

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_120509 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.532$ mho/m; $\epsilon_r =$

52.397; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(6.96, 6.96, 6.96); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 12.227 mW/g

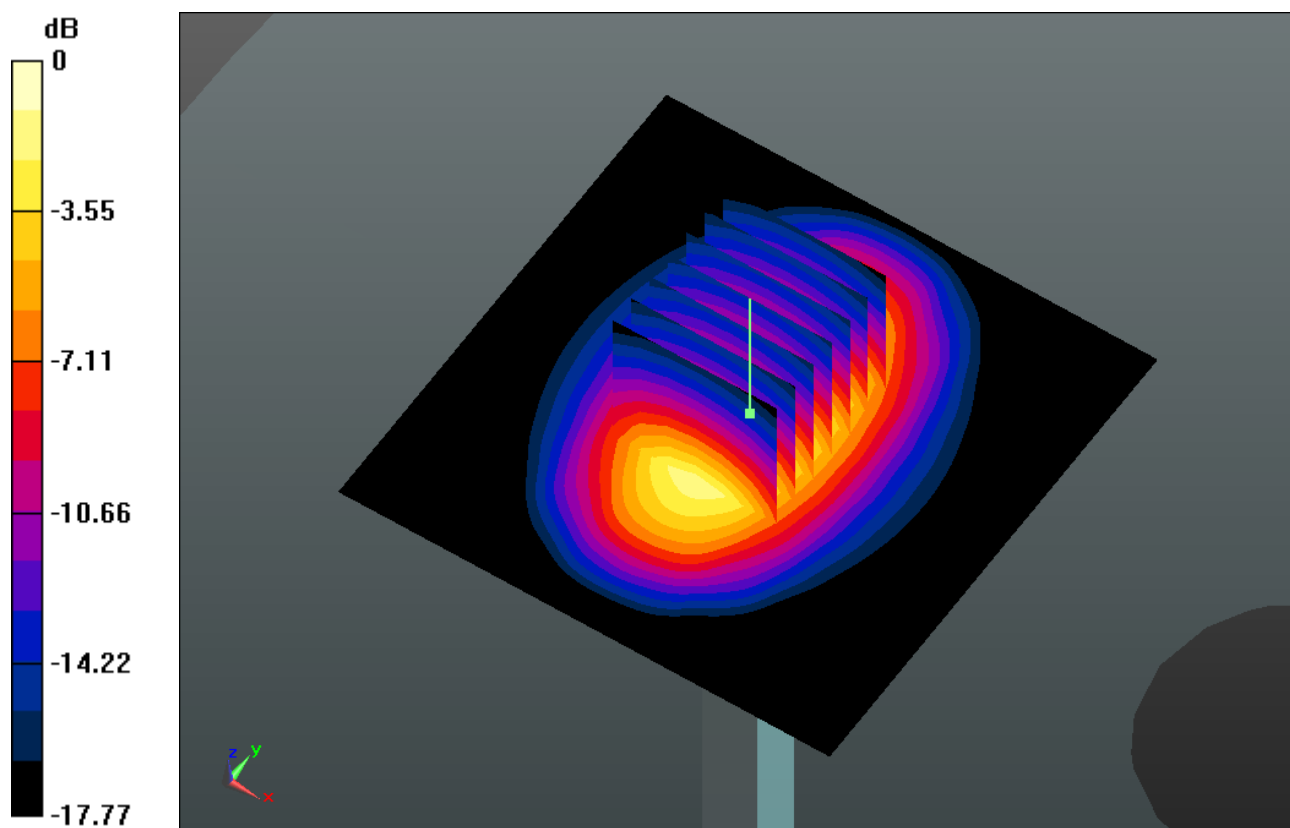
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.948 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 20.114 W/kg

SAR(1 g) = 10.7 mW/g; SAR(10 g) = 5.44 mW/g

Maximum value of SAR (measured) = 12.067 mW/g



0 dB = 12.070mW/g

System Check_Body_2450MHz_120522

DUT: D2450V2 - SN: 736

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

Medium: MSL_2450_120522 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.949 \text{ mho/m}$; $\epsilon_r =$

53.894 ; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.5 \text{ }^\circ\text{C}$; Liquid Temperature : $21.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3697; ConvF(6.73, 6.73, 6.73); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2011-6-24
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (91x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 15.479 mW/g

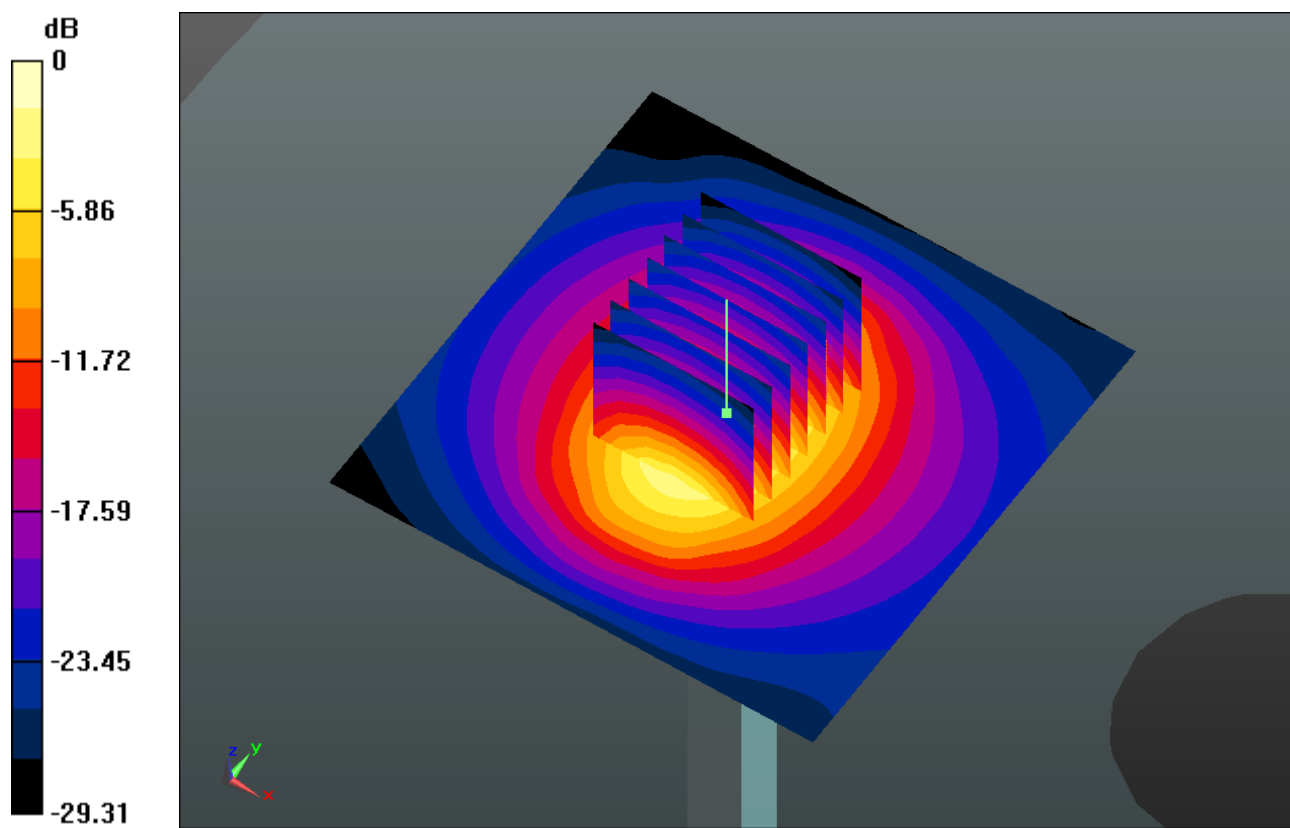
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 87.232 V/m ; Power Drift = -0.0053 dB

Peak SAR (extrapolated) = 26.263 W/kg

SAR(1 g) = 12.9 mW/g ; SAR(10 g) = 5.95 mW/g

Maximum value of SAR (measured) = 14.837 mW/g



0 dB = 15.480mW/g