



**Appendix A. System Check Plots**

<b>Table of contents</b>
SystemPerformanceCheck-D750-EX-Head
SystemPerformanceCheck-D750-EX-Body
SystemPerformanceCheck-D835-EX-Head
SystemPerformanceCheck-D835-EX-Body
SystemPerformanceCheck-D1750-EX-Head
SystemPerformanceCheck-D1750-EX-Body
SystemPerformanceCheck-D1900-EX-Head
SystemPerformanceCheck-D1900-EX-Body
SystemPerformanceCheck-D2450-EX-Head
SystemPerformanceCheck-D2450-EX-Body
SystemPerformanceCheck-D2600-EX-Head
SystemPerformanceCheck-D2600-EX-Body

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D750-EX-Head

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044**

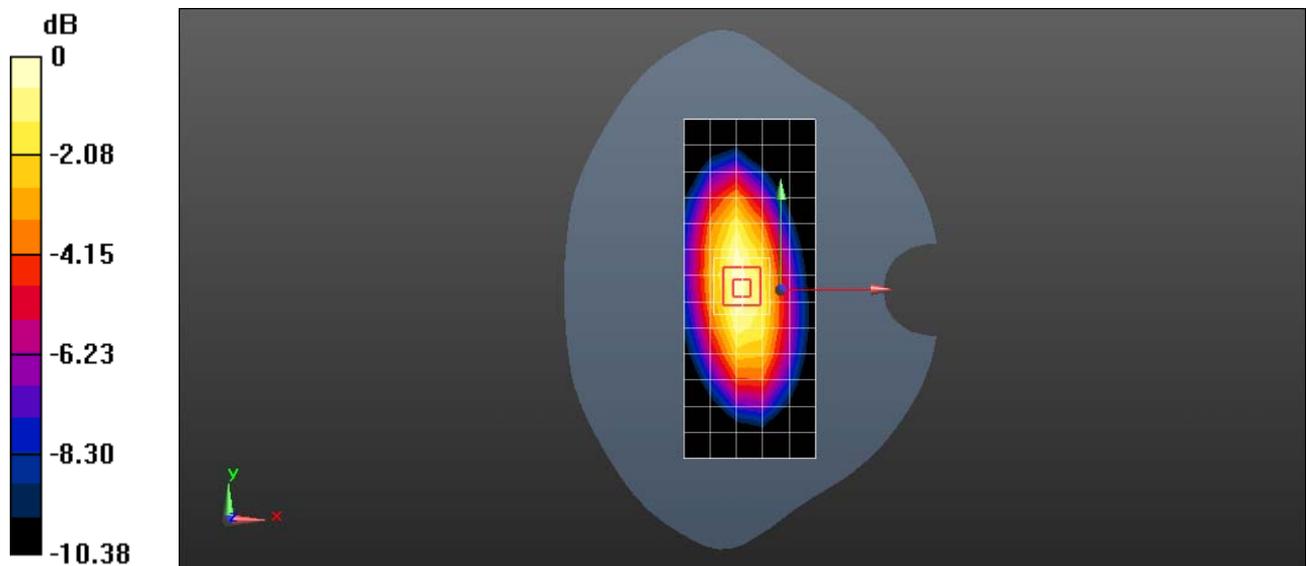
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.893$  S/m;  $\epsilon_r = 42.313$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: EX3DV4 - SN3744; ConvF(9.44, 9.44, 9.44); Calibrated: 2015-7-24;
- ⊘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⊘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⊘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⊘ DASY52 52.8.8(1222);

**Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 2.26 W/kg

**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 47.53 V/m; Power Drift = 0.13 dB  
 Peak SAR (extrapolated) = 2.96 W/kg  
**SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.32 W/kg**  
 Maximum value of SAR (measured) = 2.33 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D750-EX-Body

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044**

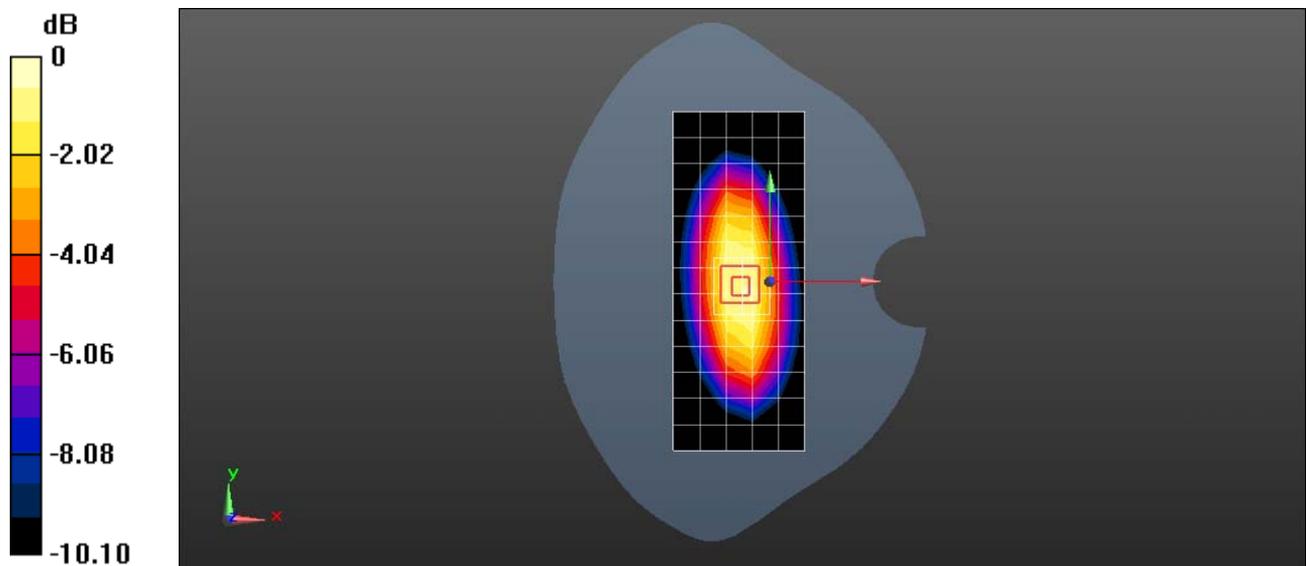
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 53.862$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: EX3DV4 - SN3744; ConvF(9.01, 9.01, 9.01); Calibrated: 2015-7-24;
- ⊘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⊘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⊘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⊘ DASY52 52.8.8(1222);

**Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 2.26 W/kg

**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 49.66 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 3.20 W/kg  
**SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.46 W/kg**  
 Maximum value of SAR (measured) = 2.55 W/kg



0 dB = 2.55 W/kg = 4.07 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-EX-Head

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 39.988$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(8.77, 8.77, 8.77); Calibrated: 2015-7-24;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.52 W/kg

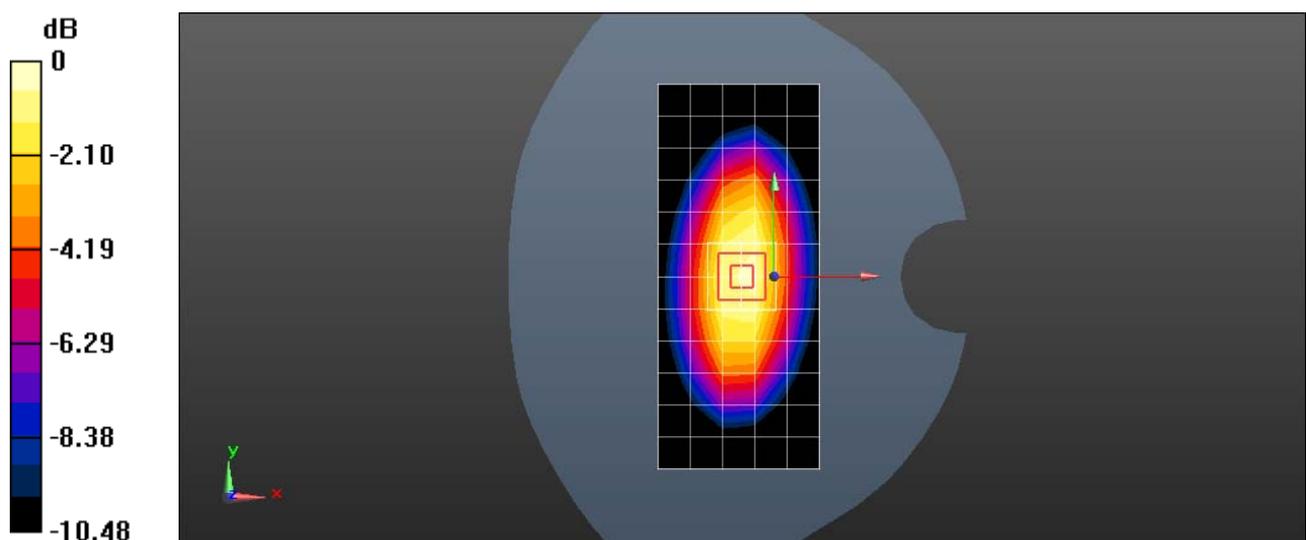
**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 54.01 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.48 W/kg

**SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.57 W/kg**

Maximum value of SAR (measured) = 2.79 W/kg



0 dB = 2.79 W/kg = 4.46 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-EX-Body

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.967$  S/m;  $\epsilon_r = 53.517$ ;  $\rho = 1000$  kg/m<sup>3</sup>

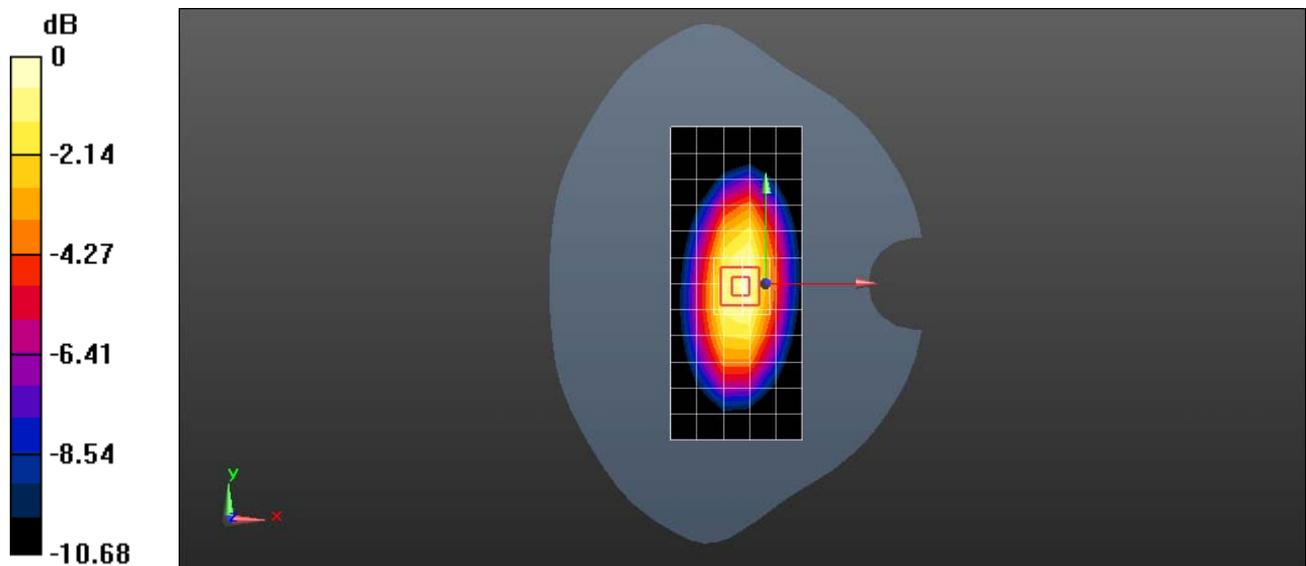
Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82); Calibrated: 2015-7-24;
- ⊘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⊘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⊘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⊘ DASY52 52.8.8(1222);

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 2.71 W/kg

**Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 52.88 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 3.72 W/kg  
**SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.65 W/kg**  
Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-EX-Head

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.409$  S/m;  $\epsilon_r = 40.997$ ;  $\rho = 1000$  kg/m<sup>3</sup>

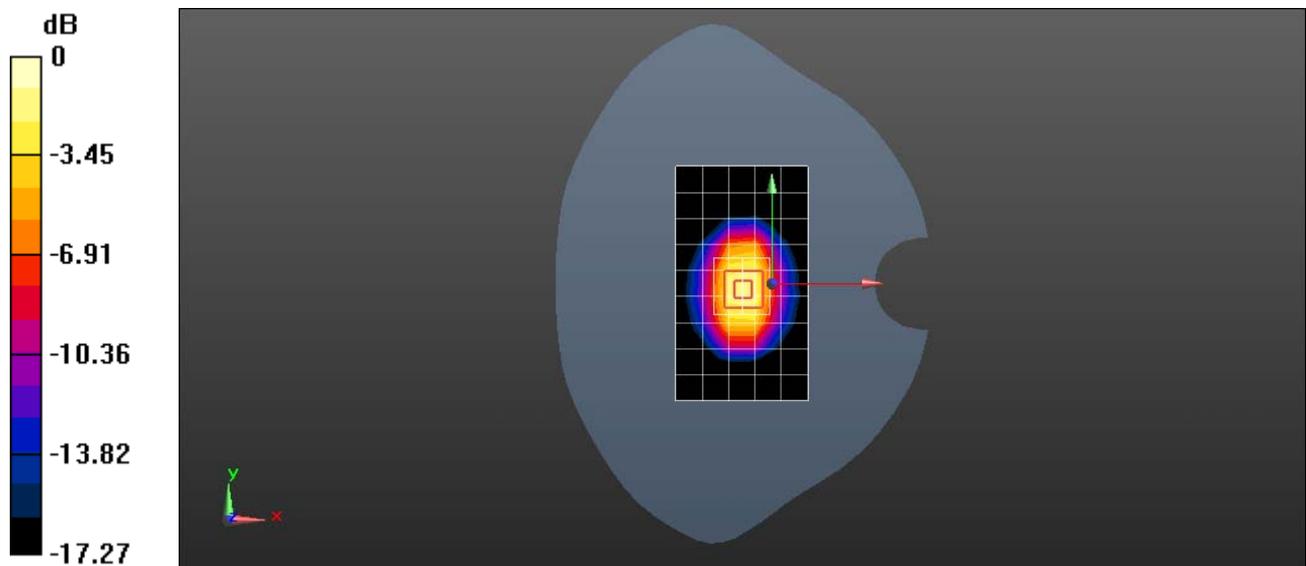
Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌵ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌵ DASY52 52.8.8(1222);

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 8.19 W/kg

**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 84.61 V/m; Power Drift = -0.06 dB  
Peak SAR (extrapolated) = 16.3 W/kg  
SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.8 W/kg  
Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-EX-Body

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.462$  S/m;  $\epsilon_r = 51.805$ ;  $\rho = 1000$  kg/m<sup>3</sup>

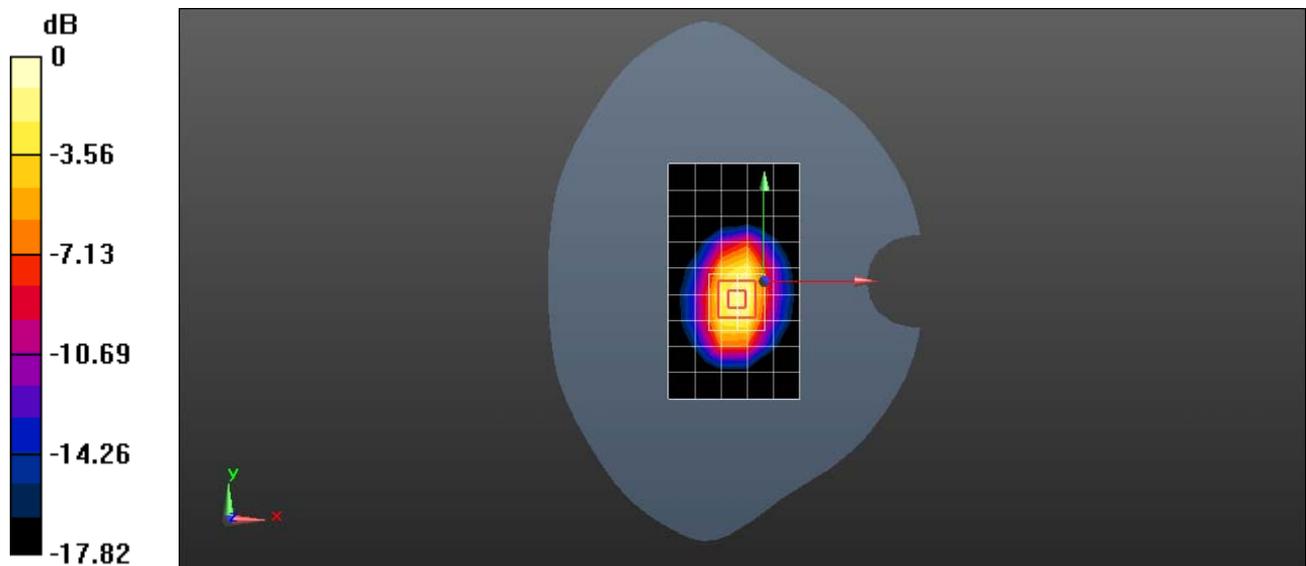
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.45, 7.45, 7.45); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 9.40 W/kg

**Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 78.48 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 17.2 W/kg  
**SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.93 W/kg**  
Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-1900-EX-Head

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.462$  S/m;  $\epsilon_r = 40.298$ ;  $\rho = 1000$  kg/m<sup>3</sup>

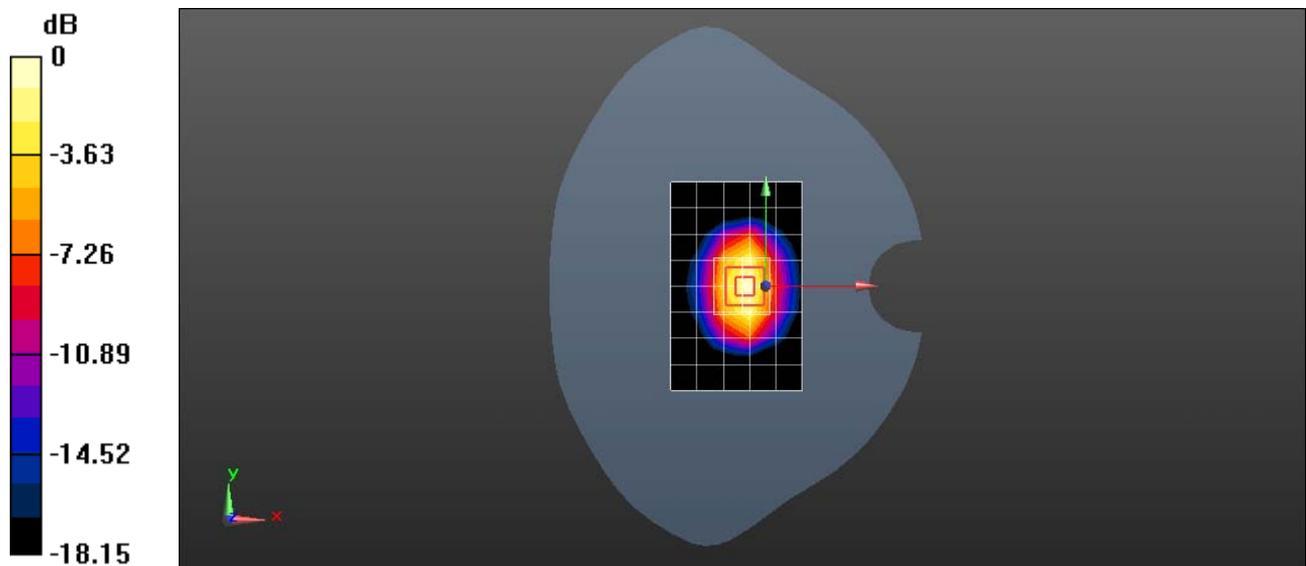
Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌵ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌵ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 12.6 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 85.72 V/m; Power Drift = -0.15 dB  
Peak SAR (extrapolated) = 19.6 W/kg  
**SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.49 W/kg**  
Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.532$  S/m;  $\epsilon_r = 51.968$ ;  $\rho = 1000$  kg/m<sup>3</sup>

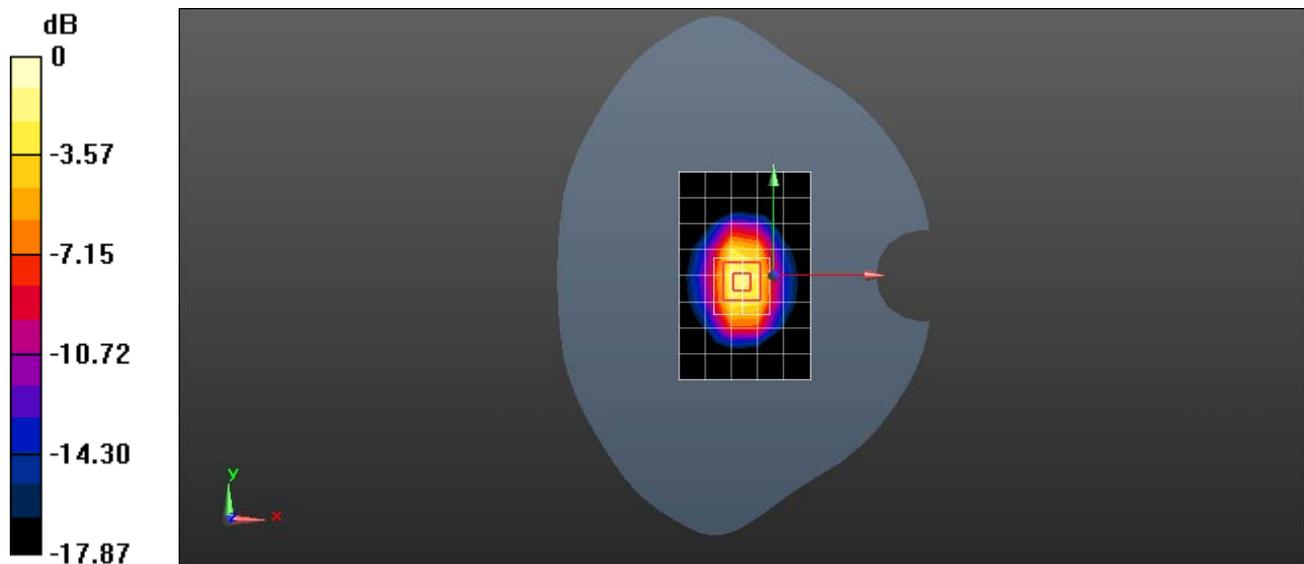
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 9.88 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 88.35 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 19.2 W/kg  
SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.6 W/kg  
Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg = 11.27 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-EX-Head

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860**

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.858$  S/m;  $\epsilon_r = 38.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

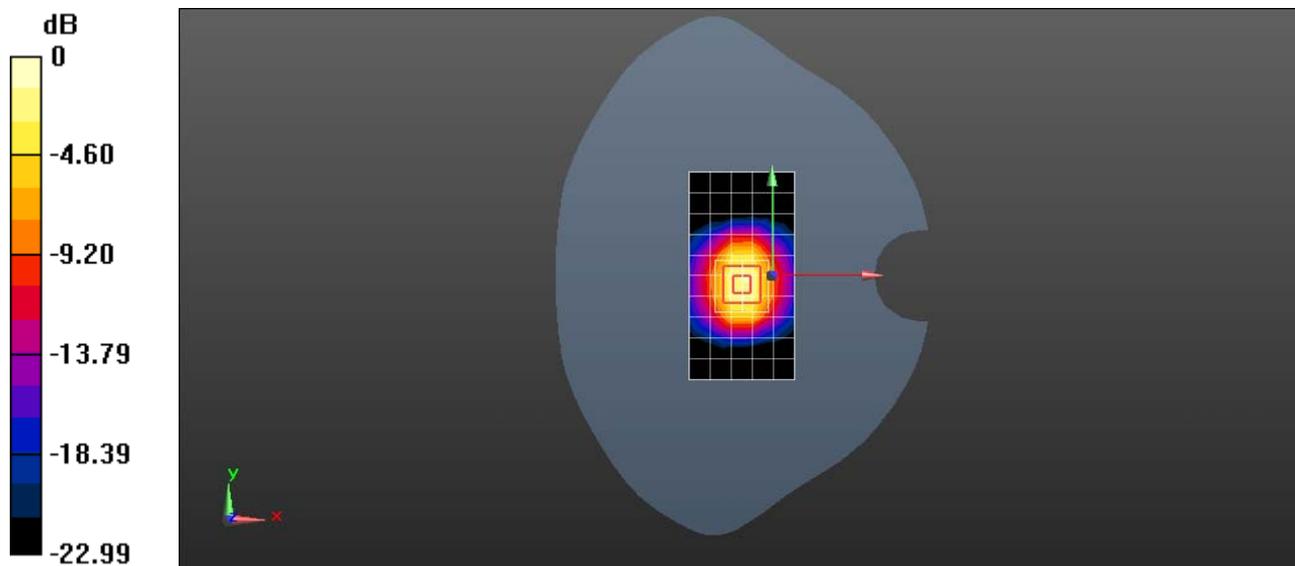
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.84, 6.84, 6.84); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
 Maximum value of SAR (measured) = 13.1 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 89.28 V/m; Power Drift = -0.07 dB  
 Peak SAR (extrapolated) = 28.4 W/kg  
**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.15 W/kg**  
 Maximum value of SAR (measured) = 17.8 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.978$  S/m;  $\epsilon_r = 51.595$ ;  $\rho = 1000$  kg/m<sup>3</sup>

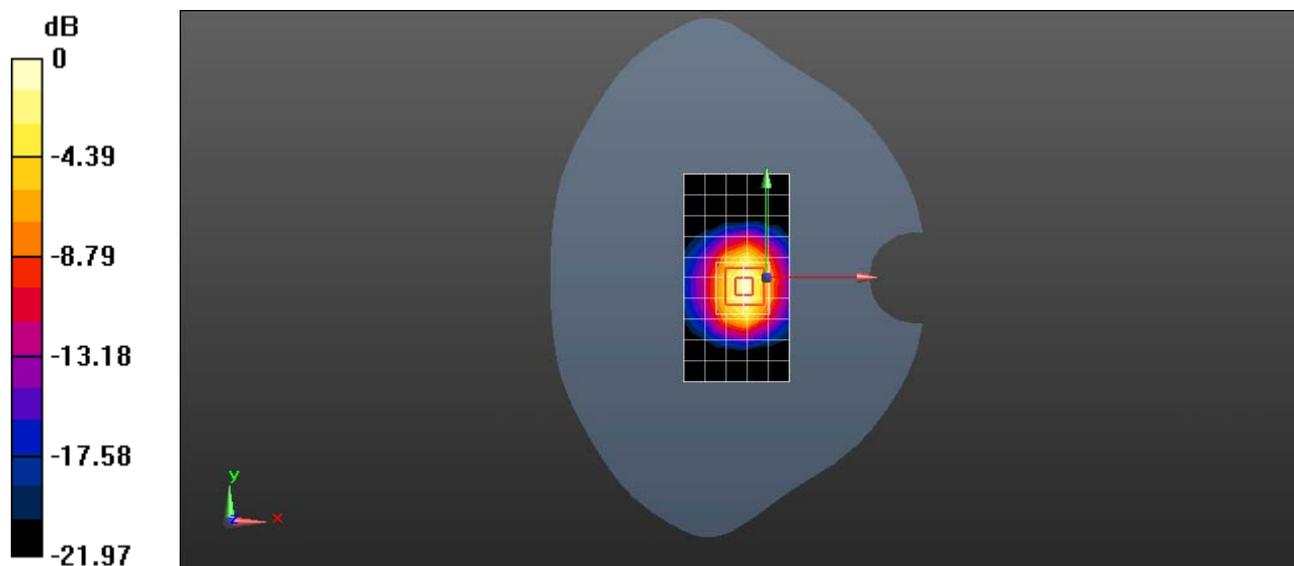
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.77, 6.77, 6.77); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 15.1 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 76.59 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 25.6 W/kg  
**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.78 W/kg**  
Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX-Head

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.986$  S/m;  $\epsilon_r = 38.566$ ;  $\rho = 1000$  kg/m<sup>3</sup>

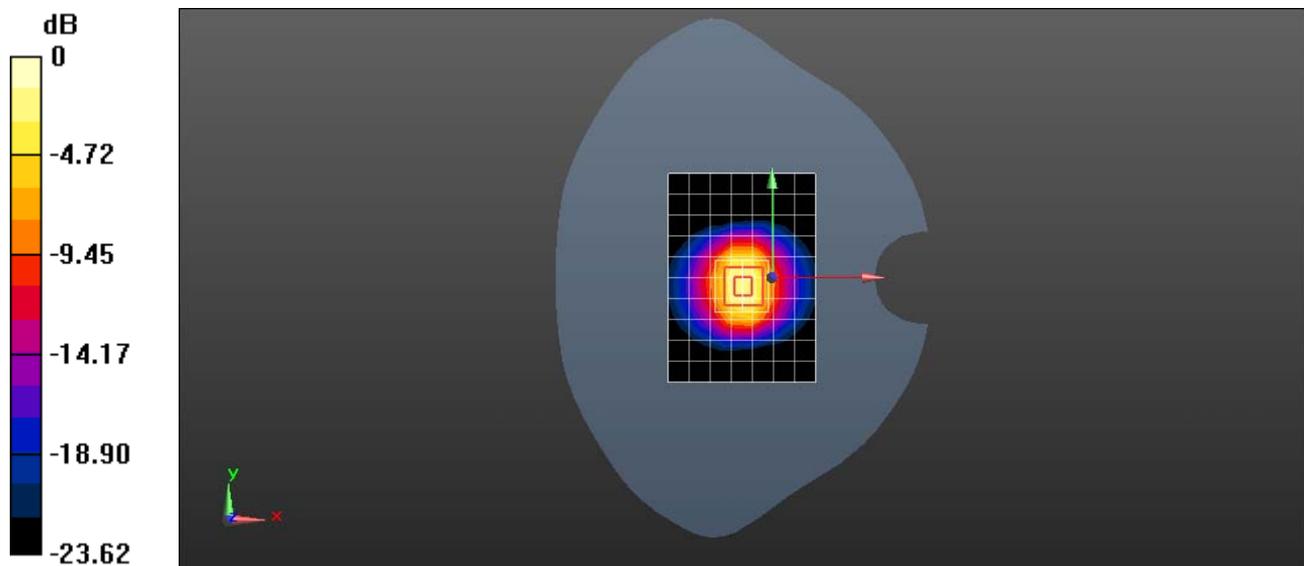
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.68, 6.68, 6.68); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 15.1 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 92.50 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 33.8 W/kg  
SAR(1 g) = 15.6 W/kg; SAR(10 g) = 6.94 W/kg  
Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kg = 13.20 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.169$  S/m;  $\epsilon_r = 51.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

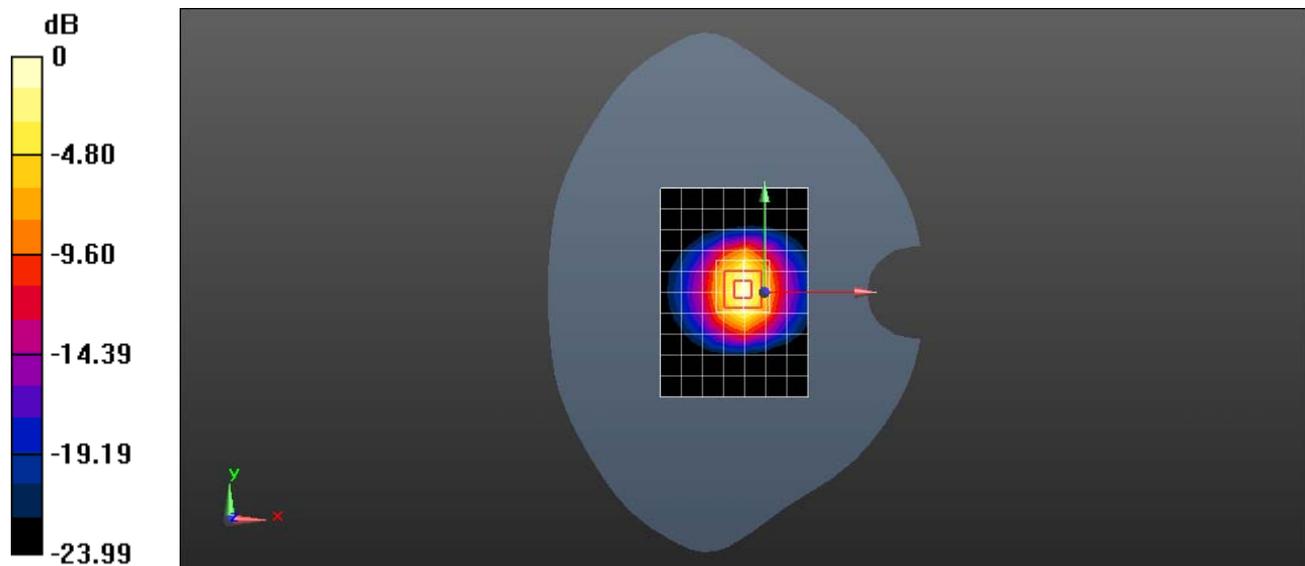
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.65, 6.65, 6.65); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 18.2 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 77.13 V/m; Power Drift = -0.13 dB  
Peak SAR (extrapolated) = 29.6 W/kg  
**SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.12 W/kg**  
Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg