



Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D750-EX-Head

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

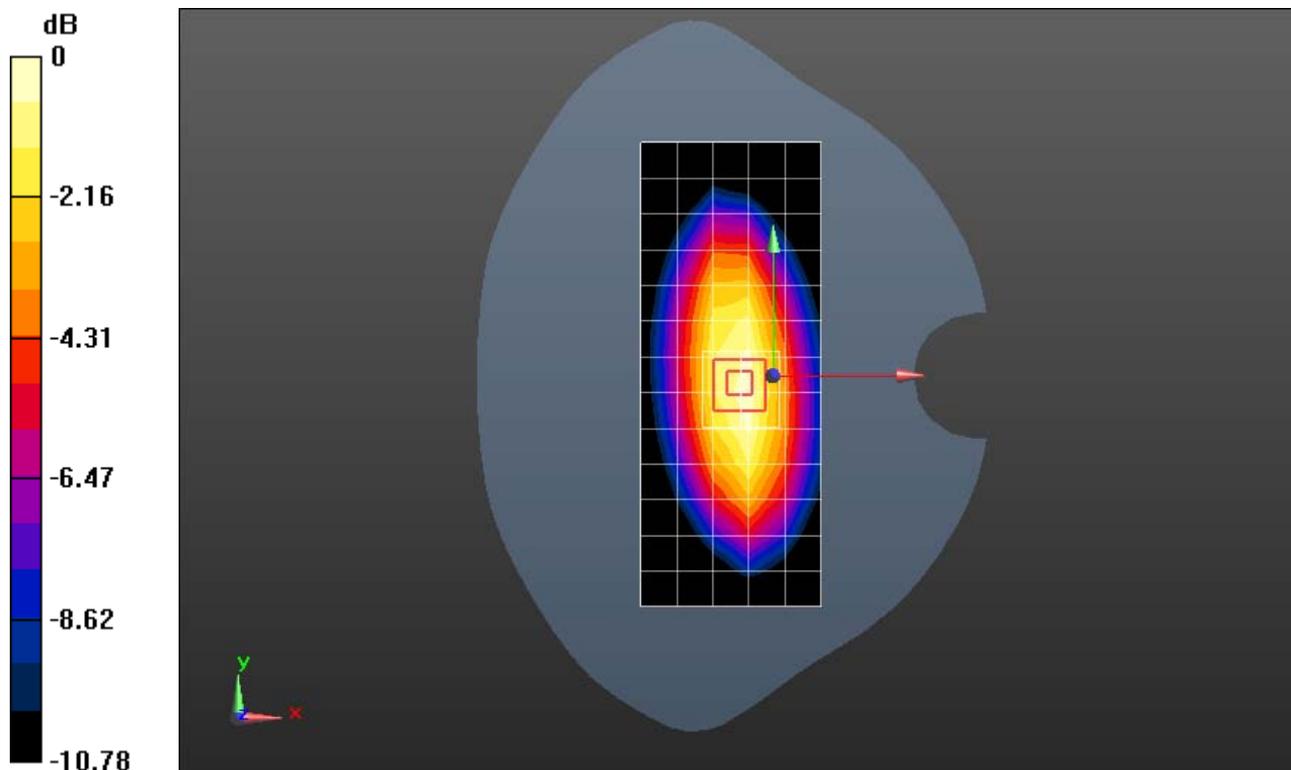
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 42.449$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: EX3DV4 - SN3744; ConvF(9.44, 9.44, 9.44); Calibrated: 2015-7-24;
- ⊘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⊘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⊘ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⊘ DASY52 52.8.8(1222);

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.71 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 50.16 V/m; Power Drift = -0.19 dB
 Peak SAR (extrapolated) = 3.20 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.34 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-D750-EX-Body-20160622

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

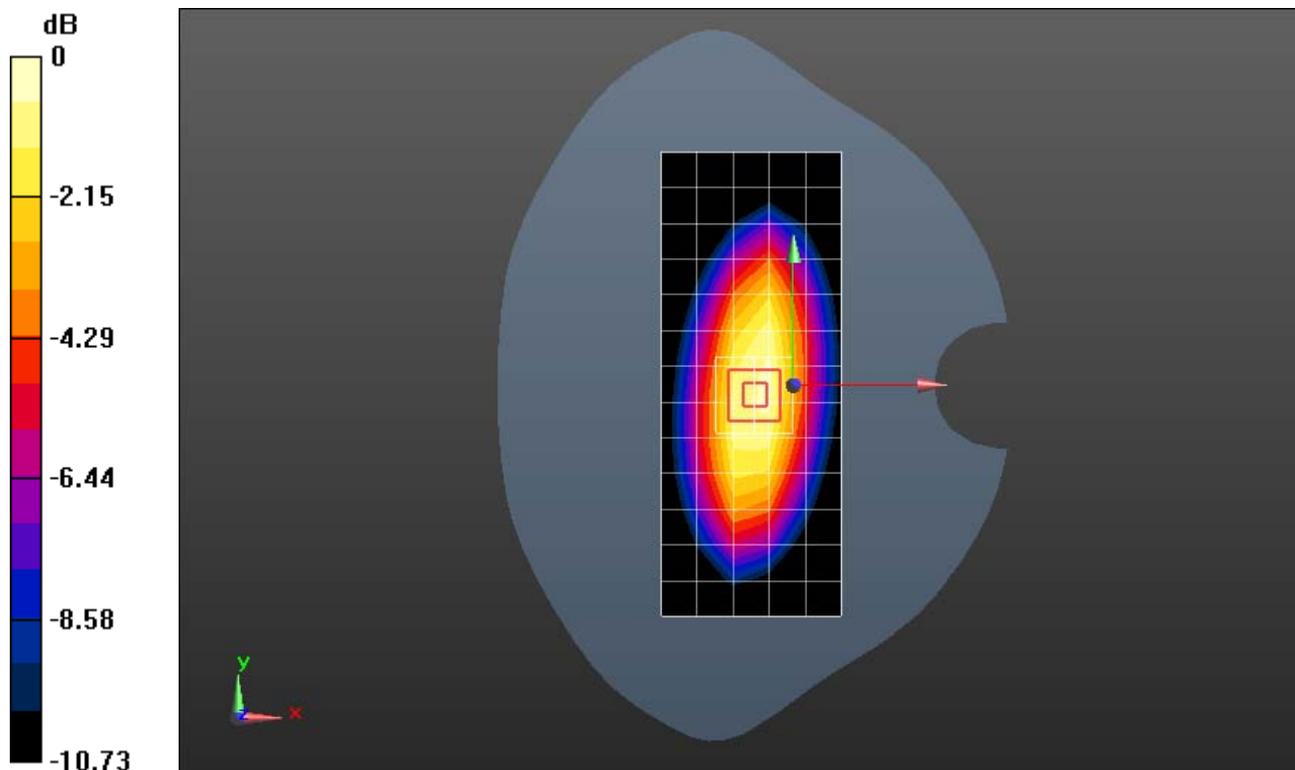
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750$ MHz; $\sigma = 0.977$ S/m; $\epsilon_r = 53.59$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(9.01, 9.01, 9.01); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌵ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌵ DASY52 52.8.8(1222);

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.73 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 48.86 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.46 W/kg
 Maximum value of SAR (measured) = 3.06 W/kg



0 dB = 3.06 W/kg = 4.86 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: $f = 835 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 40.201$; $\rho = 1000 \text{ kg/m}^3$

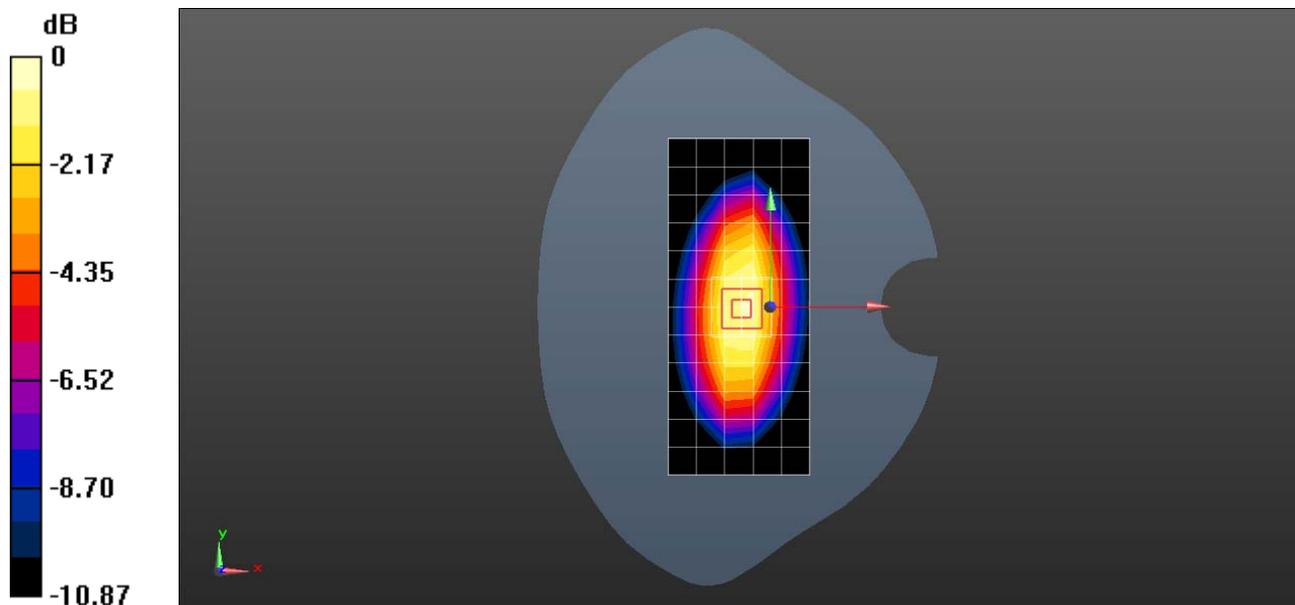
Phantom section: Flat Section

DASY Configuration:

- ⌄ Probe: EX3DV4 - SN3744; ConvF(8.77, 8.77, 8.77); Calibrated: 2015-7-24;
- ⌄ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌄ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌄ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ⌄ DASY52 52.8.8(1222);

Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 3.01 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 54.89 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 3.85 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.65 W/kg
 Maximum value of SAR (measured) = 3.40 W/kg



0 dB = 3.40 W/kg = 5.32 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

System Performance Check-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; $\sigma = 0.985$ S/m; $\epsilon_r = 53.526$; $\rho = 1000$ kg/m³

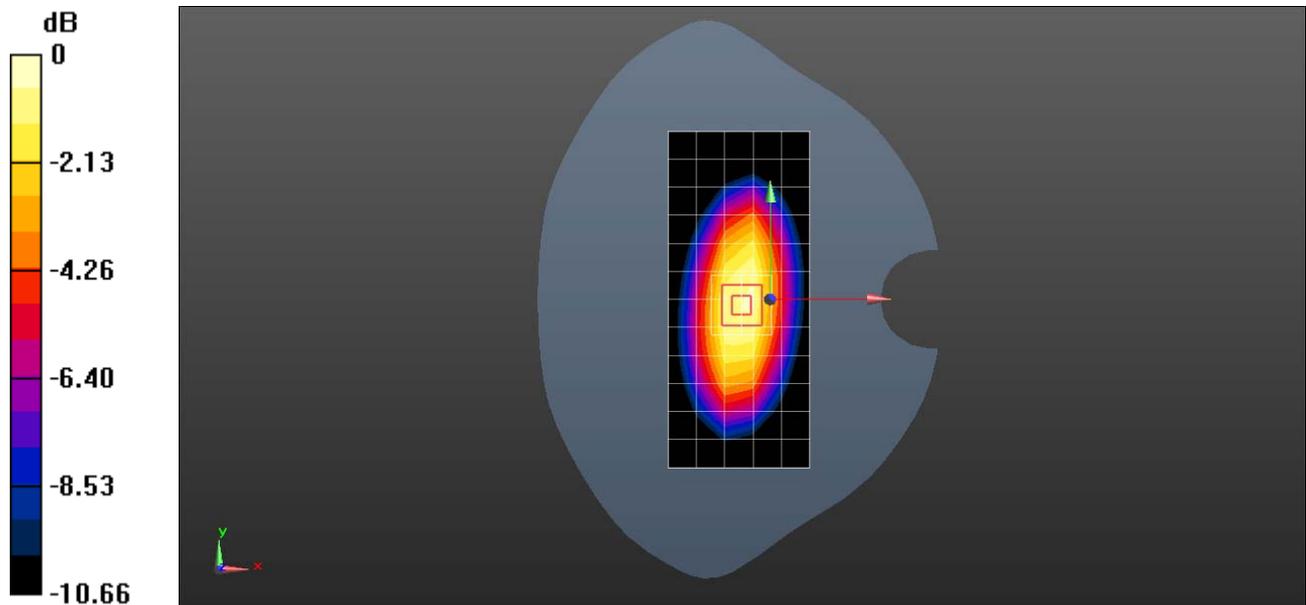
Phantom section: Flat Section

DASY Configuration:

- ζ Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82); Calibrated: 2015-7-24;
- ζ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ζ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ζ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ζ DASY52 52.8.8(1222);

Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.45 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.66 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.47 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.54 W/kg
Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.76 W/kg = 4.40 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; $\sigma = 1.365$ S/m; $\epsilon_r = 39.743$; $\rho = 1000$ kg/m³

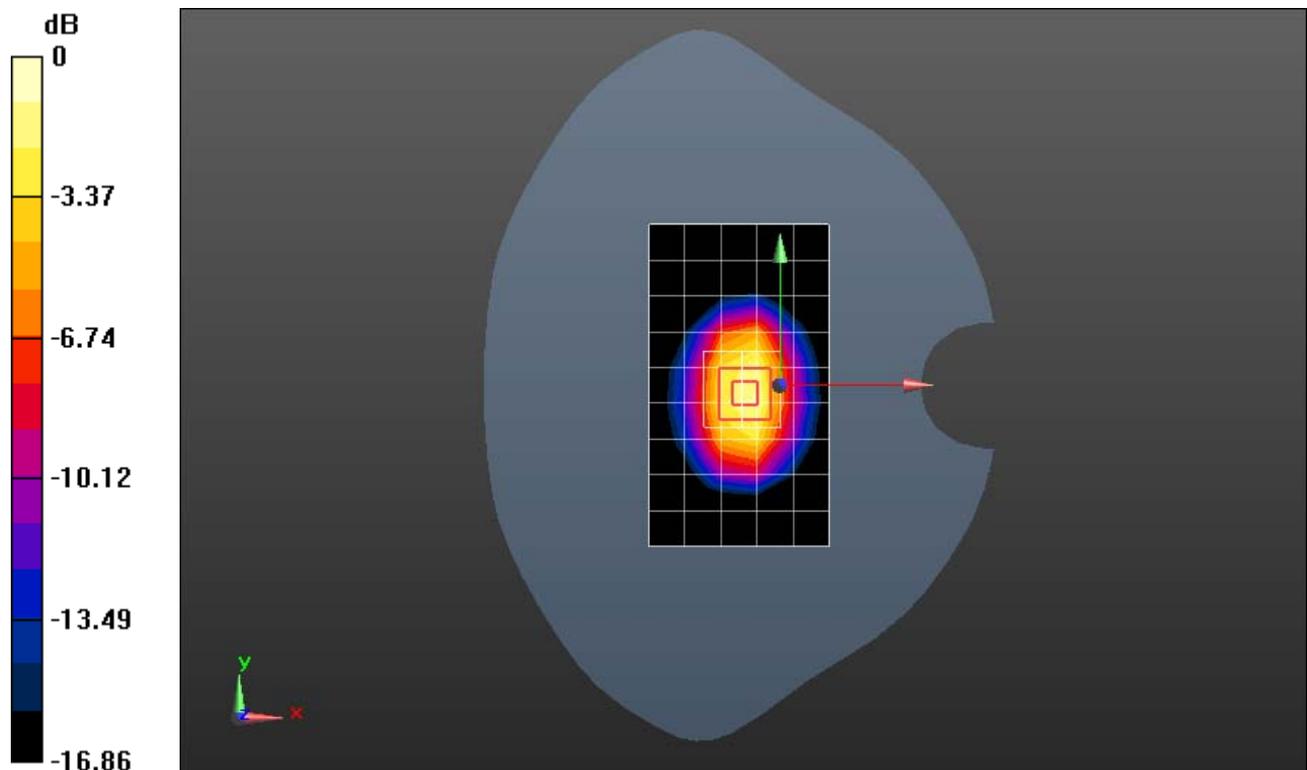
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ 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) = 9.59 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 = 85.64 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.98 W/kg
Maximum value of SAR (measured) = 11.6 W/kg



0 dB = 11.6 W/kg = 10.64 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; $\sigma = 1.429$ S/m; $\epsilon_r = 52.156$; $\rho = 1000$ kg/m³

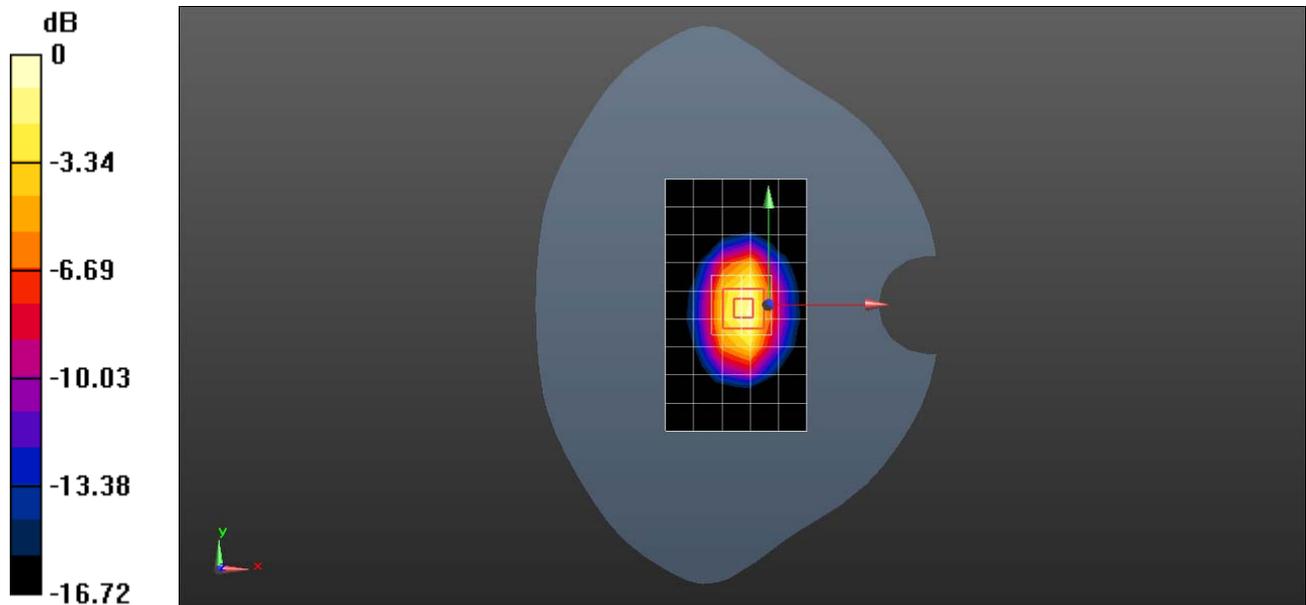
Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(7.45, 7.45, 7.45); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌵ 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) = 9.78 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 = 81.67 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 9.19 W/kg; SAR(10 g) = 4.91 W/kg
Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 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; $\sigma = 1.422$ S/m; $\epsilon_r = 39.961$; $\rho = 1000$ kg/m³

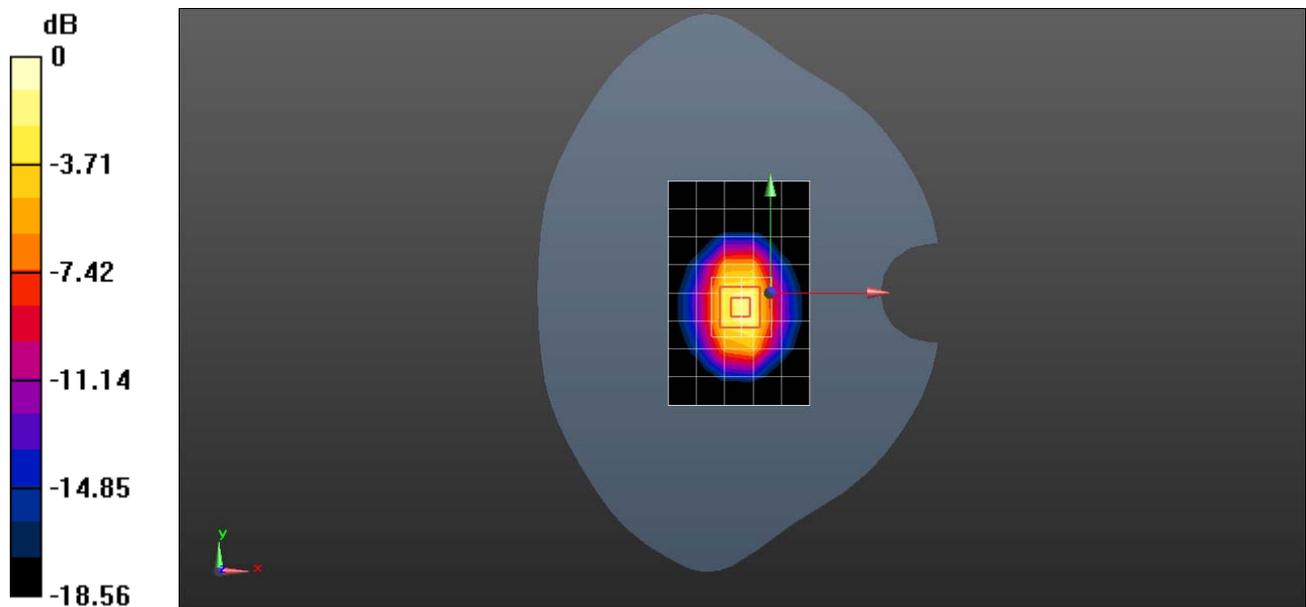
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ 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) = 10.4 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 = 83.74 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 18.8 W/kg
SAR(1 g) = 9.96 W/kg; SAR(10 g) = 5.11 W/kg
Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 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; $\sigma = 1.406$ S/m; $\epsilon_r = 39.571$; $\rho = 1000$ kg/m³

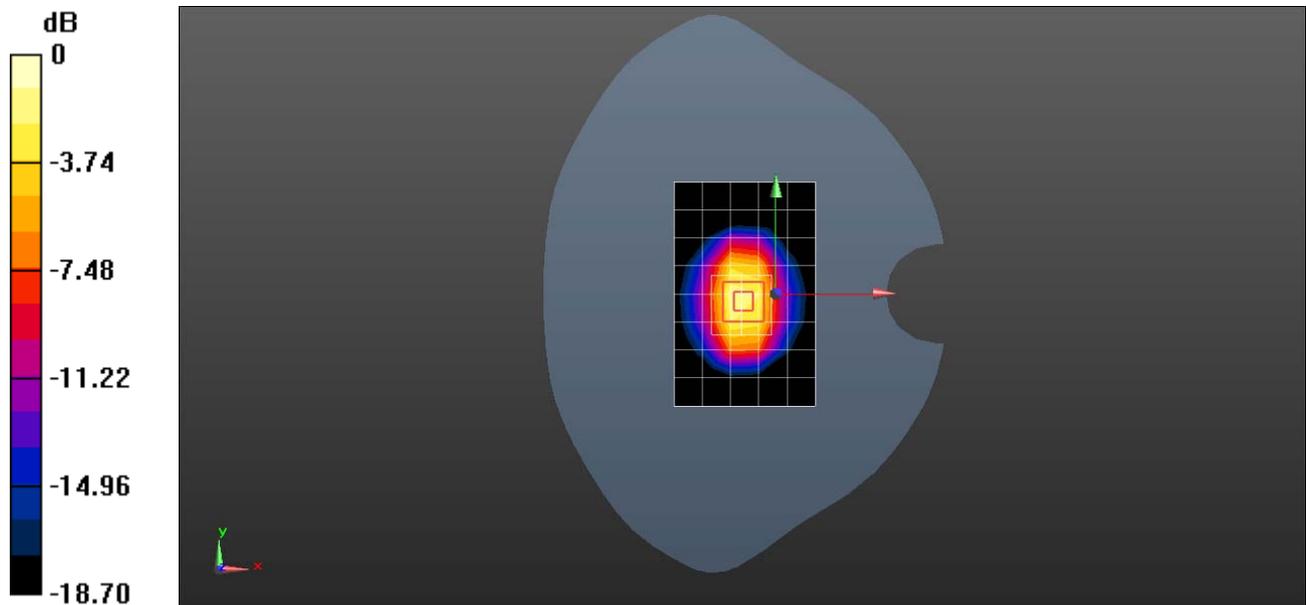
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.54, 7.54, 7.54); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ 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) = 11.5 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 = 90.53 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 20.0 W/kg
SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.41 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-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; $\sigma = 1.569$ S/m; $\epsilon_r = 51.191$; $\rho = 1000$ kg/m³

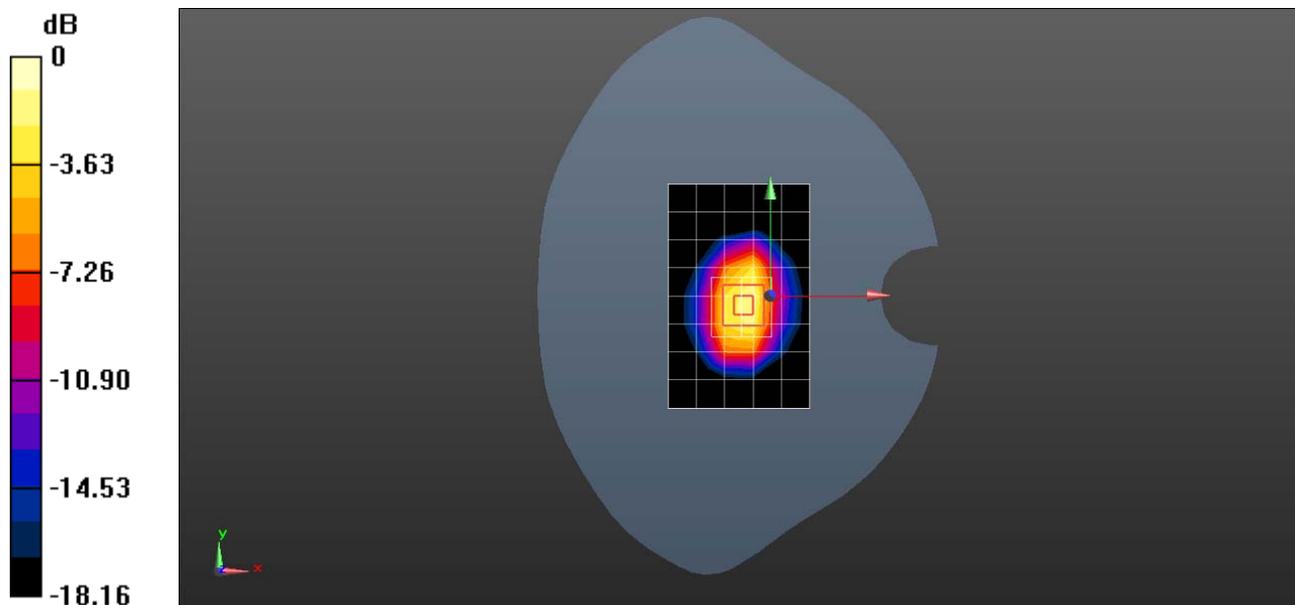
Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ⌵ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌵ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌵ 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 = 82.76 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.41 W/kg
 Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 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; $\sigma = 1.549$ S/m; $\epsilon_r = 52.215$; $\rho = 1000$ kg/m³

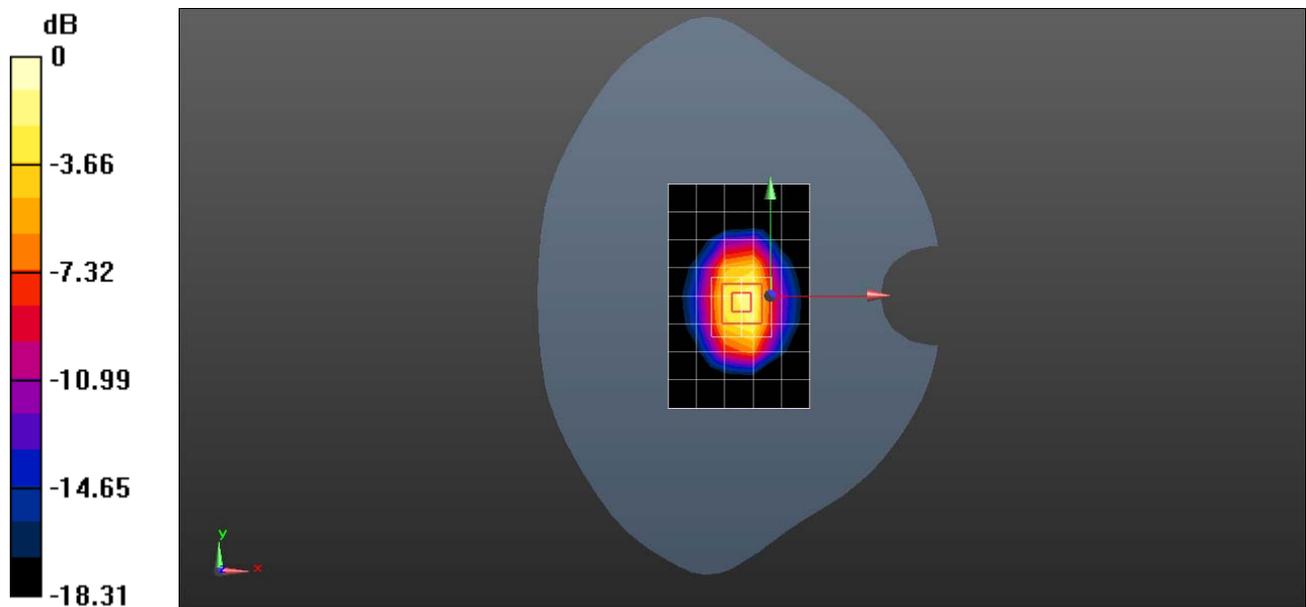
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ⌘ 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) = 12.1 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 = 86.48 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.58 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-D2450-EX-Head

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

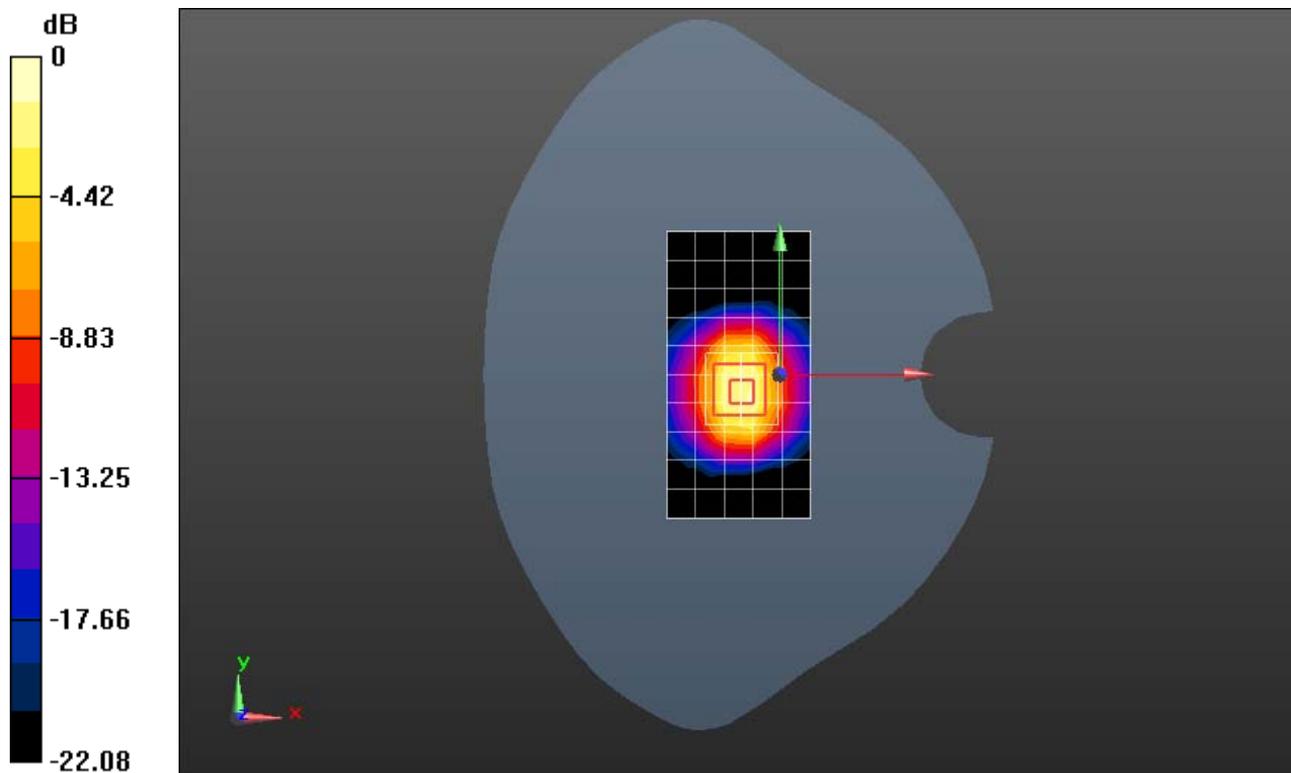
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.849$ S/m; $\epsilon_r = 39.151$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY Configuration:

- ⌄ Probe: EX3DV4 - SN3744; ConvF(6.84, 6.84, 6.84); Calibrated: 2015-7-24;
- ⌄ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌄ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌄ 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) = 12.7 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 = 85.00 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 26.7 W/kg
SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.88 W/kg
 Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-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; $\sigma = 2.008$ S/m; $\epsilon_r = 52.192$; $\rho = 1000$ kg/m³

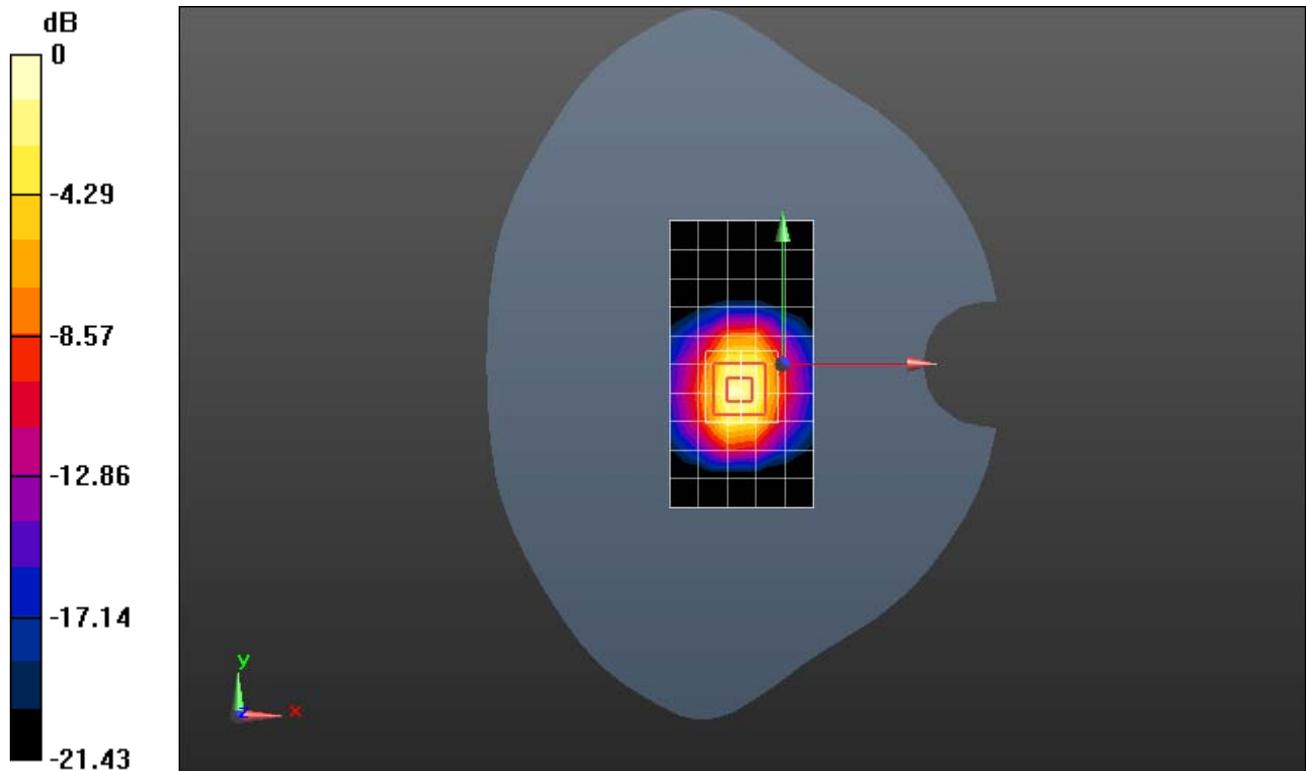
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.77, 6.77, 6.77); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⌘ 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) = 12.8 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 = 73.10 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 24.7 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.83 W/kg
Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.13 dBW/kg