



**Appendix A. System Check Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-ES-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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.915 \text{ S/m}$ ;  $\epsilon_r = 41.681$ ;  $\rho = 1000 \text{ kg/m}^3$

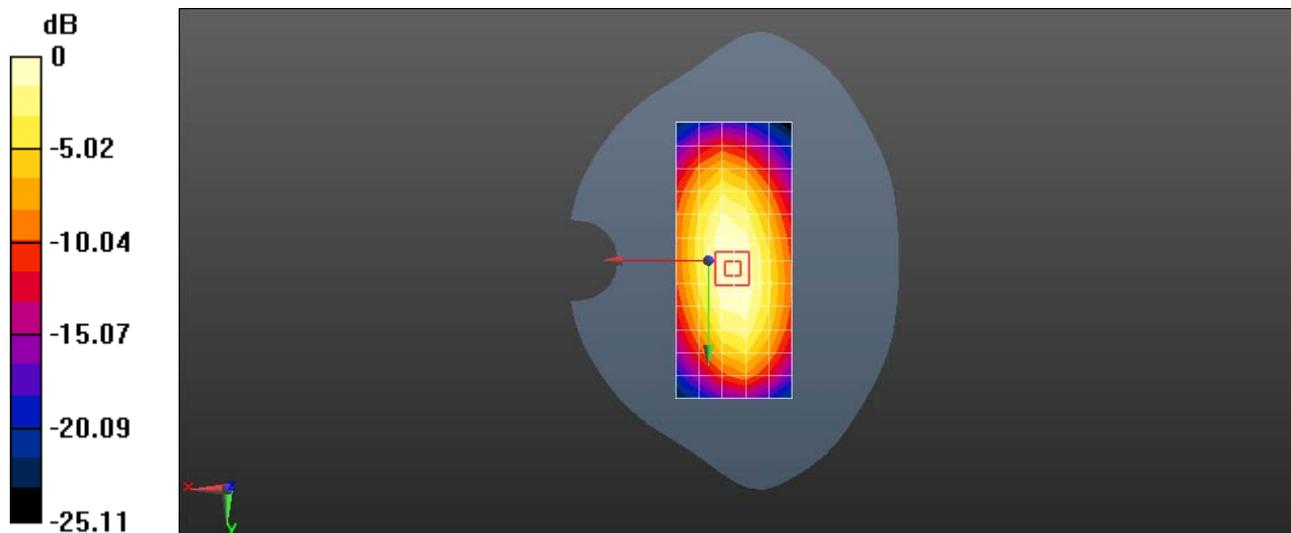
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ 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) = 2.52 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 = 53.92 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 3.66 W/kg  
**SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.58 W/kg**  
 Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-ES-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;  $\epsilon_r = 53.126$ ;  $\rho = 1000$  kg/m<sup>3</sup>

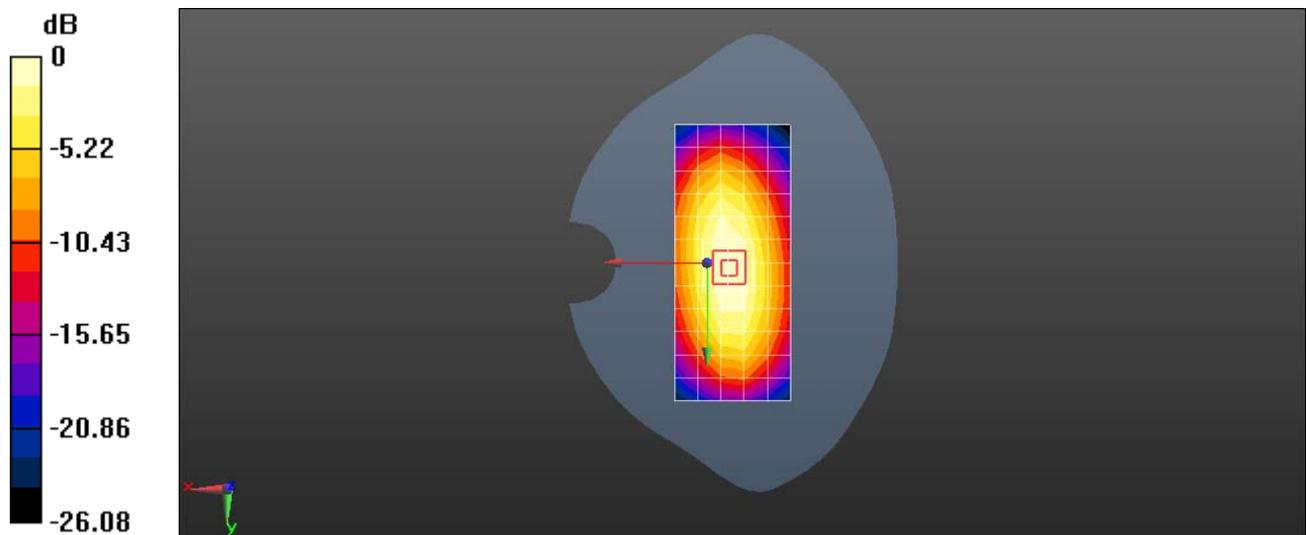
Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ⊘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⊘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⊘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⊘ 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) = 2.64 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 = 51.77 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 3.55 W/kg  
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg  
Maximum value of SAR (measured) = 2.85 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-ES-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;  $\sigma = 0.991$  S/m;  $\epsilon_r = 54.156$ ;  $\rho = 1000$  kg/m<sup>3</sup>

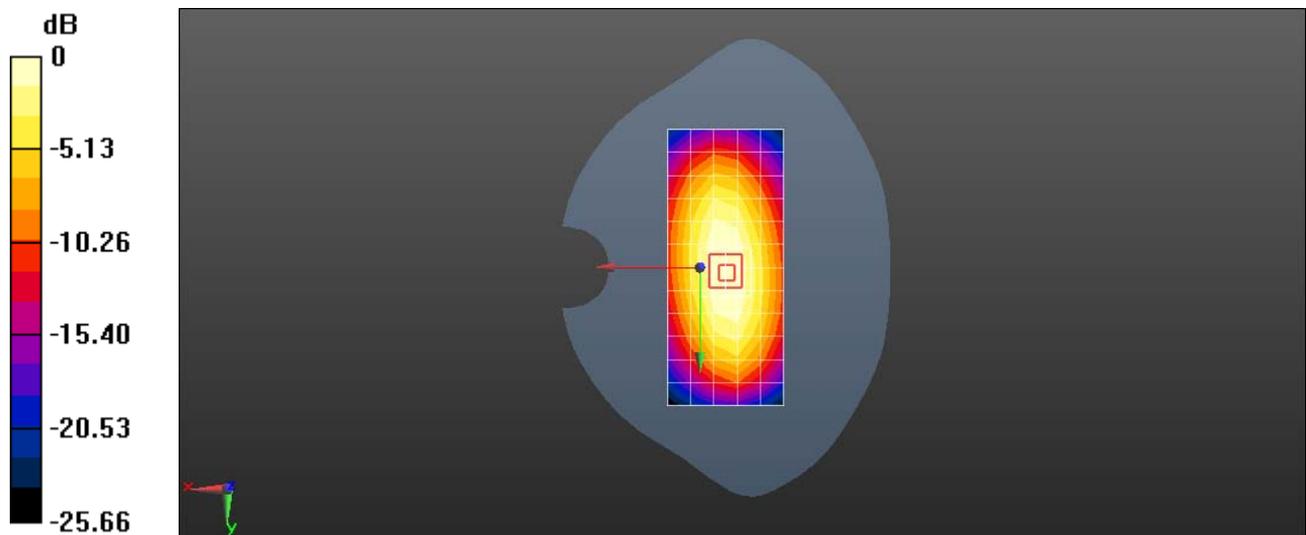
Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: ES3DV3 - SN3168; ConvF(6.24, 6.24, 6.24); Calibrated: 2015-9-28;
- ⊘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⊘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⊘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⊘ 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) = 2.49 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 = 52.90 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 3.64 W/kg  
**SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.63 W/kg**  
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.49 W/kg = 3.96 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-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;  $\sigma = 1.389$  S/m;  $\epsilon_r = 41.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

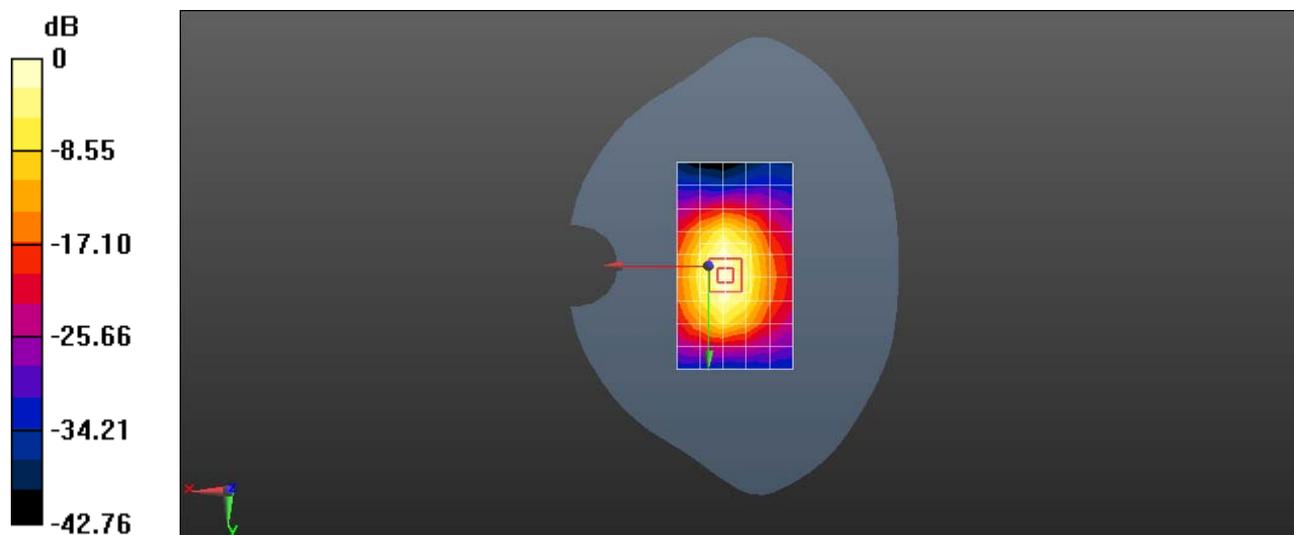
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(5.13, 5.13, 5.13); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ⌘ 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) = 12.8 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 = 80.41 V/m; Power Drift = -0.11 dB  
Peak SAR (extrapolated) = 18.9 W/kg  
**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.35 W/kg**  
Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-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;  $\sigma = 1.487$  S/m;  $\epsilon_r = 51.604$ ;  $\rho = 1000$  kg/m<sup>3</sup>

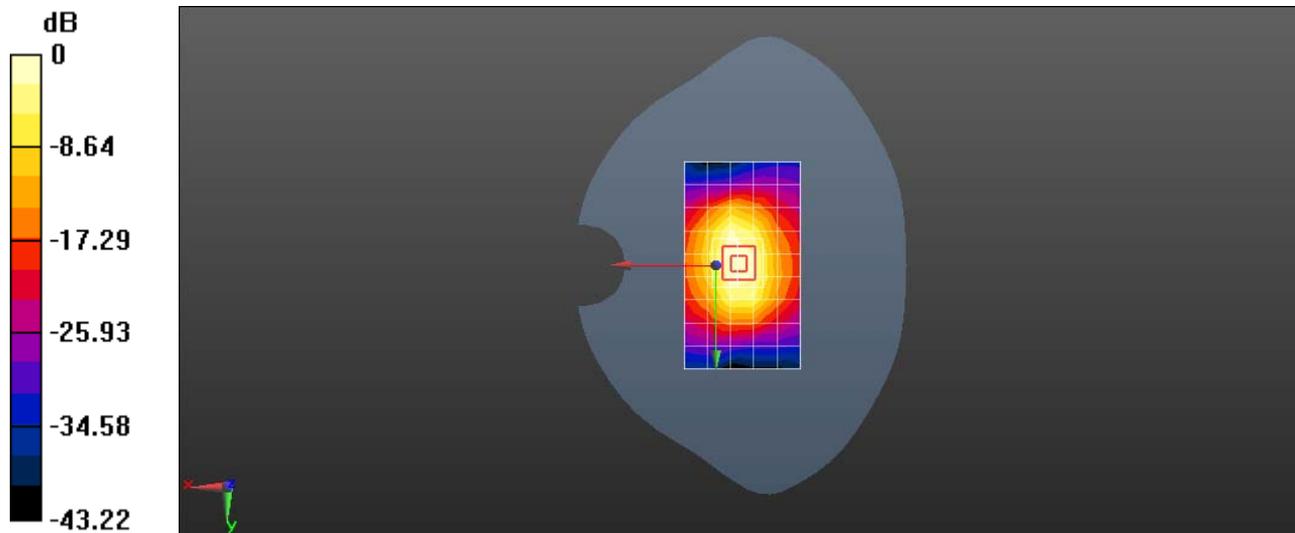
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.74, 4.74, 4.74); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ 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) = 10.8 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 = 89.58 V/m; Power Drift = -0.15 dB  
 Peak SAR (extrapolated) = 18.3 W/kg  
 SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.42 W/kg  
 Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-ES-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;  $\sigma = 1.501$  S/m;  $\epsilon_r = 52.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

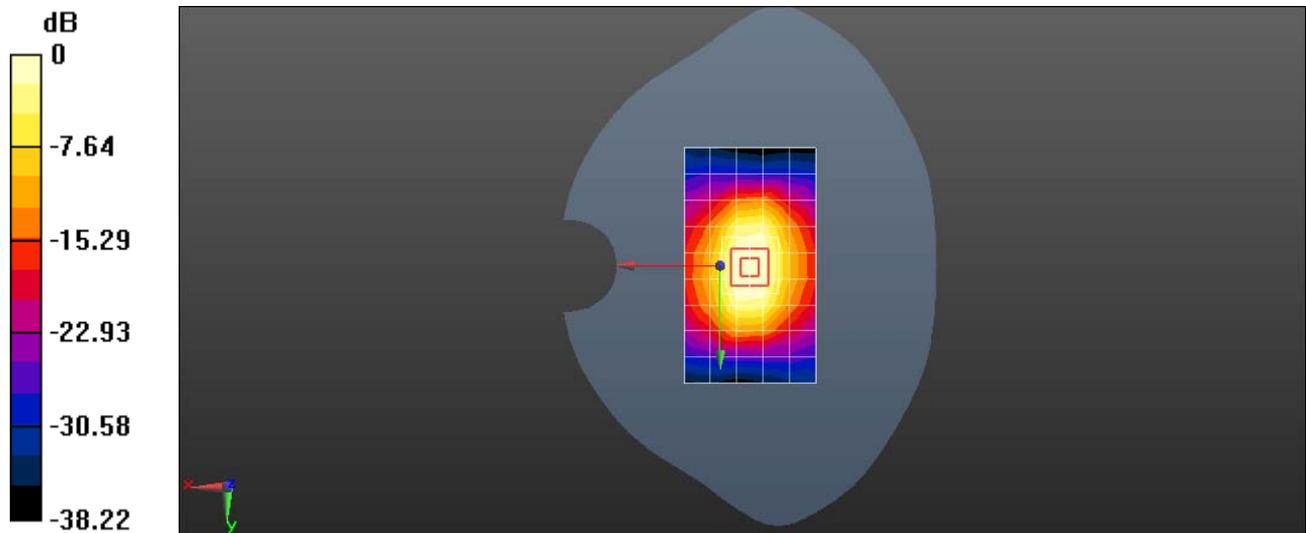
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.74, 4.74, 4.74); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ 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) = 8.39 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 = 90.98 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 18.6 W/kg  
**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.49 W/kg**  
Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 8.39 W/kg = 9.24 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-ES-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;  $\sigma = 1.855$  S/m;  $\epsilon_r = 40.441$ ;  $\rho = 1000$  kg/m<sup>3</sup>

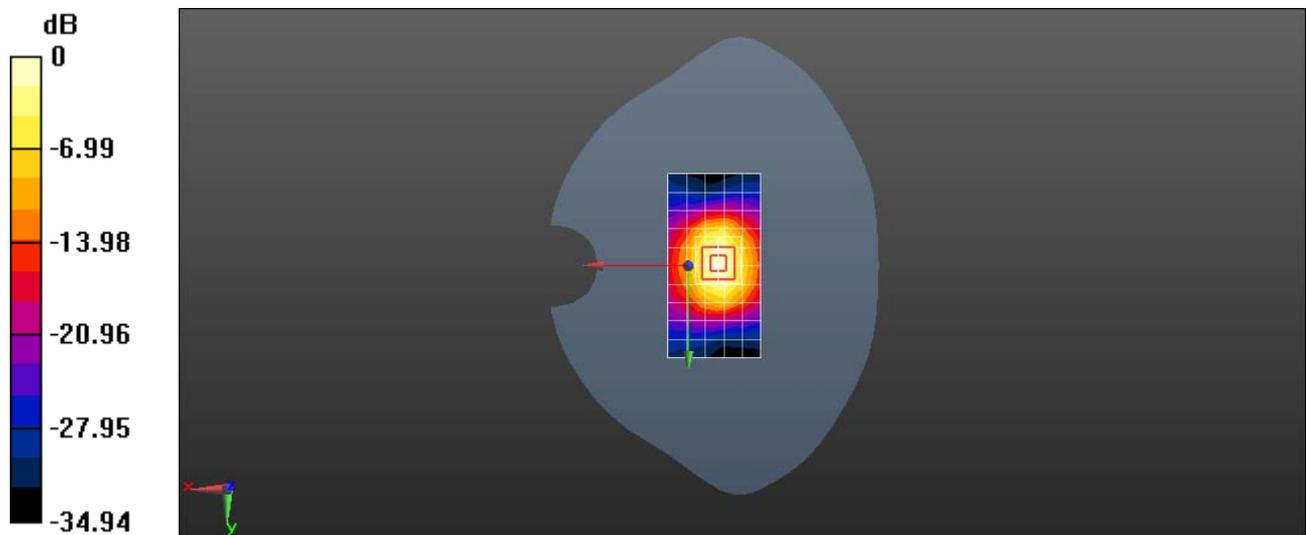
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.55, 4.55, 4.55); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ 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) = 16.0 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 = 90.57 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 27.4 W/kg  
**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.2 W/kg**  
Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 16.0 W/kg = 12.04 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-ES-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;  $\sigma = 1.965$  S/m;  $\epsilon_r = 51.502$ ;  $\rho = 1000$  kg/m<sup>3</sup>

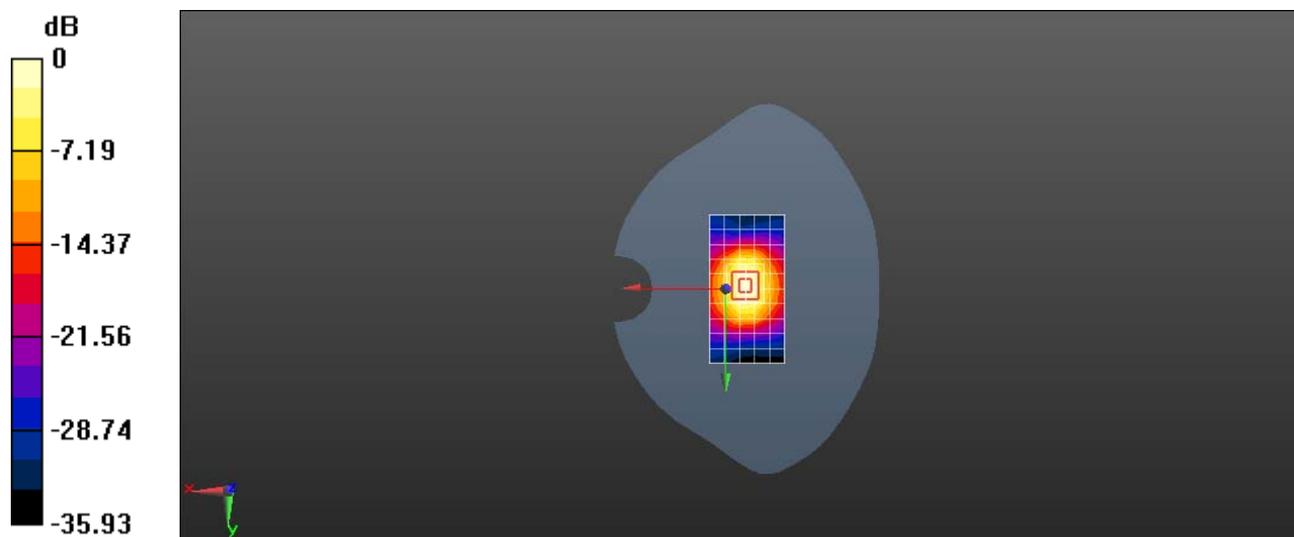
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.35, 4.35, 4.35); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ 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) = 13.3 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 = 87.63 V/m; Power Drift = -0.09 dB  
Peak SAR (extrapolated) = 27.6 W/kg  
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.83 W/kg  
Maximum value of SAR (measured) = 17.0 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-ES-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;  $\sigma = 2.034$  S/m;  $\epsilon_r = 40.016$ ;  $\rho = 1000$  kg/m<sup>3</sup>

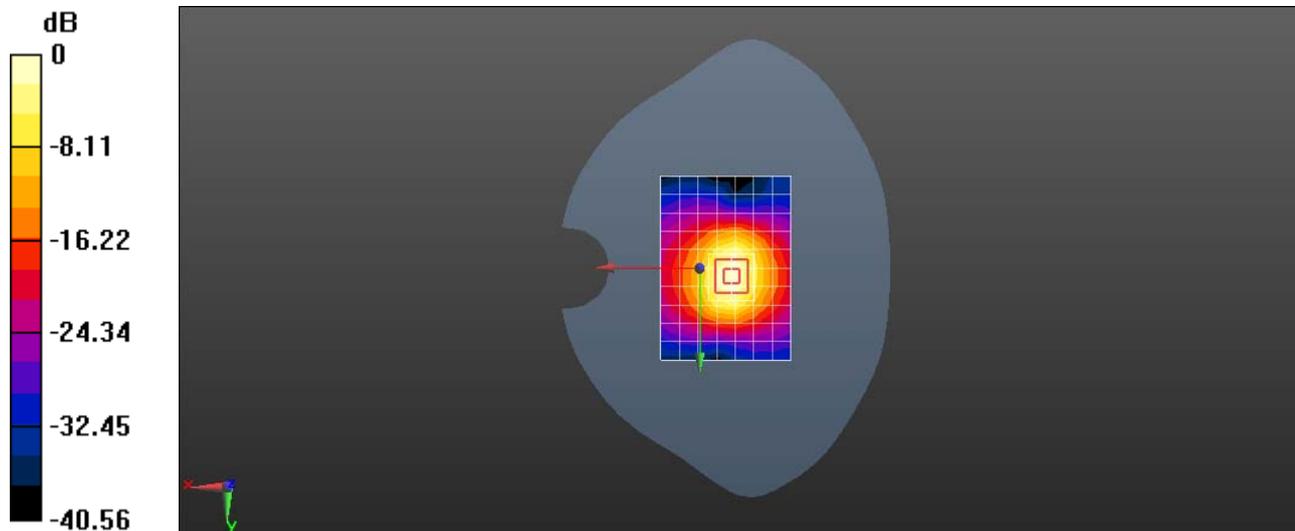
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.48, 4.48, 4.48); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ⌘ 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) = 17.5 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 = 84.83 V/m; Power Drift = 0.18 dB  
 Peak SAR (extrapolated) = 31.3 W/kg  
**SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.62 W/kg**  
 Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-ES-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;  $\sigma = 2.176$  S/m;  $\epsilon_r = 50.633$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ⊂ Probe: ES3DV3 - SN3168; ConvF(4.23, 4.23, 4.23); Calibrated: 2015-9-28;
- ⊂ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⊂ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⊂ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⊂ 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) = 17.5 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 = 72.75 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 31.7 W/kg  
SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.42 W/kg  
Maximum value of SAR (measured) = 19.5 W/kg

