Appendix A. System Check Plots

Table of contents
SystemPerformanceCheck-D2450-EX-Head
SystemPerformanceCheck-D2450-EX-Body
SystemPerformanceCheck-D5250-EX-Head
SystemPerformanceCheck-D5250-EX-Body
SystemPerformanceCheck-D5600-EX-Head
SystemPerformanceCheck-D5600-EX-Body
SystemPerformanceCheck-D5750-EX-Head
SystemPerformanceCheck-D5750-EX-Body

Date: 2016-7-5

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; σ = 1.847 S/m; ε_r = 38.533; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

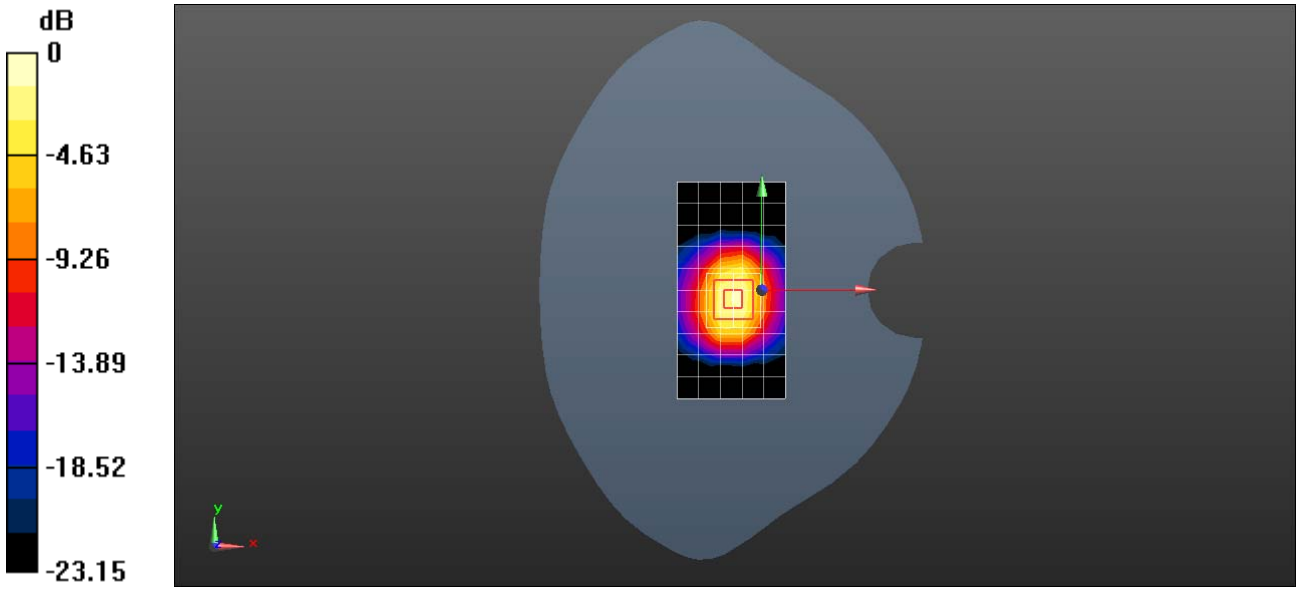
- ¿ Probe: EX3DV4 - SN3744; ConvF(6.84, 6.84, 6.84); Calibrated: 2015-7-24;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: SAM4; Type: SAM; Serial: TP-1620
- ¿ DASY52 52.8.8(1222);

Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 13.5 W/kg

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

Reference Value = 85.77 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 27.6 W/kg
SAR(1 g) = 13 W/kg; SAR(10 g) = 5.93 W/kg
Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.37 dBW/kg

Date: 2016-7-4

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; σ = 1.979 S/m; ε_r = 51.386; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

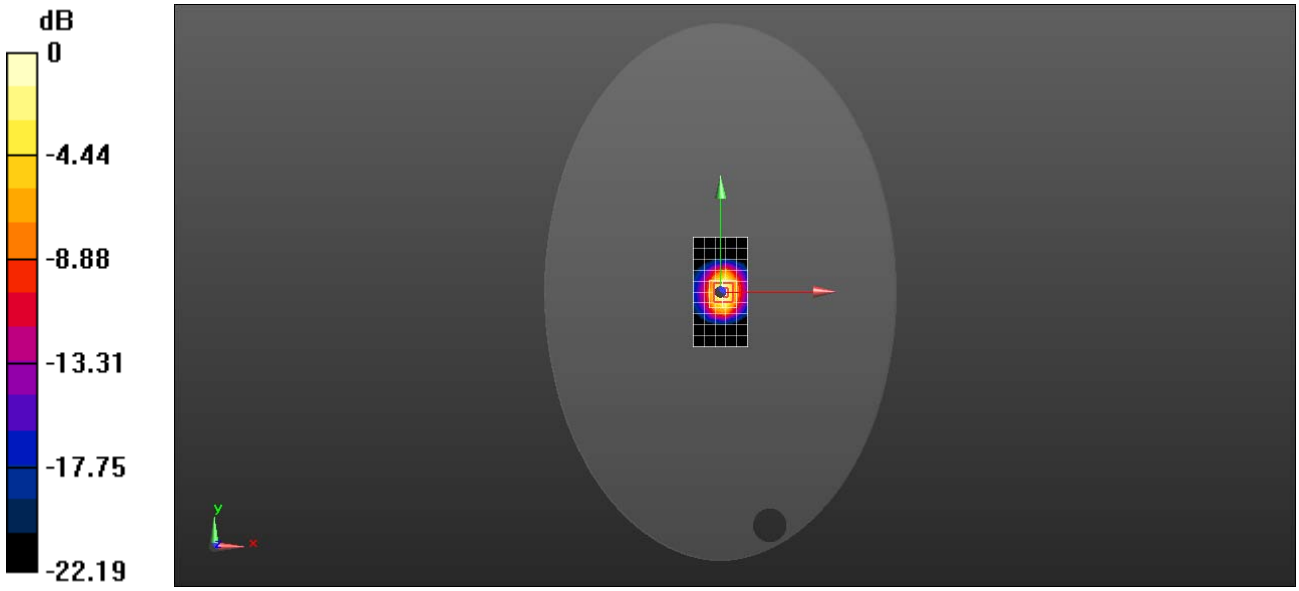
- ¿ Probe: EX3DV4 - SN3744; ConvF(6.77, 6.77, 6.77); Calibrated: 2015-7-24;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ¿ DASY52 52.8.8(1222);

Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 16.3 W/kg

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

Reference Value = 83.95 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 26.8 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.15 W/kg
Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5250-EX-Head

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.734 S/m; ε_r = 36.432; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

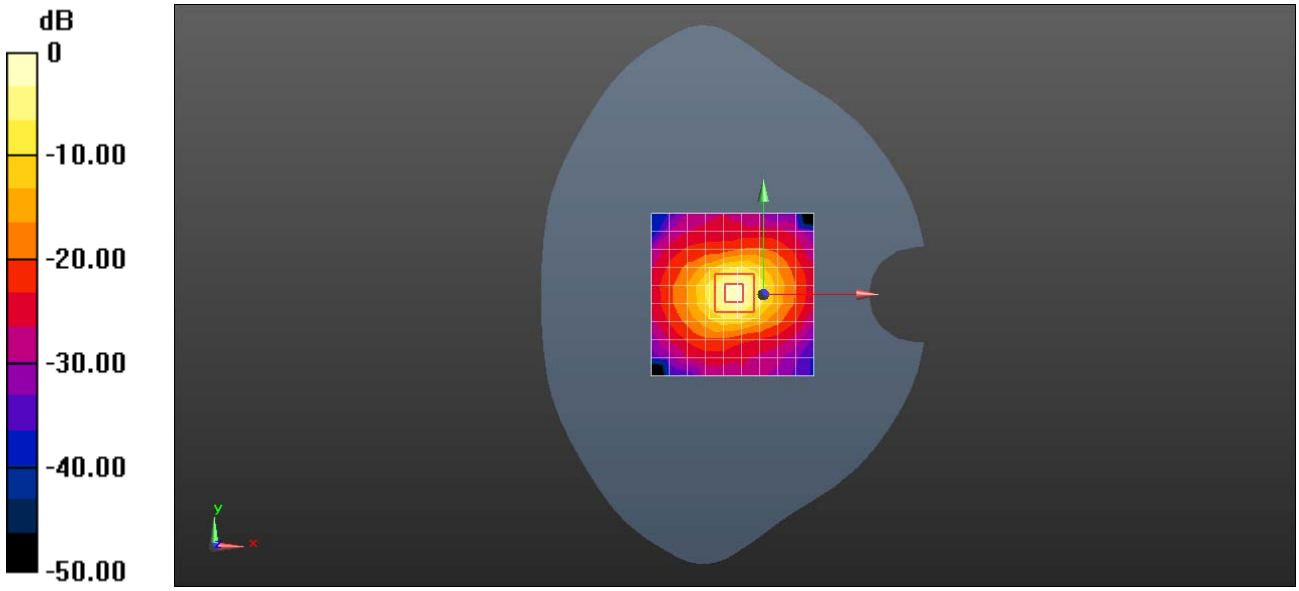
- ¿ Probe: EX3DV4 - SN3736; ConvF(4.57, 4.57, 4.57); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.8 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.50 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 32.6 W/kg
SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.13 W/kg
Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.59 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5250-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 5.422 S/m; ε_r = 50.374; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

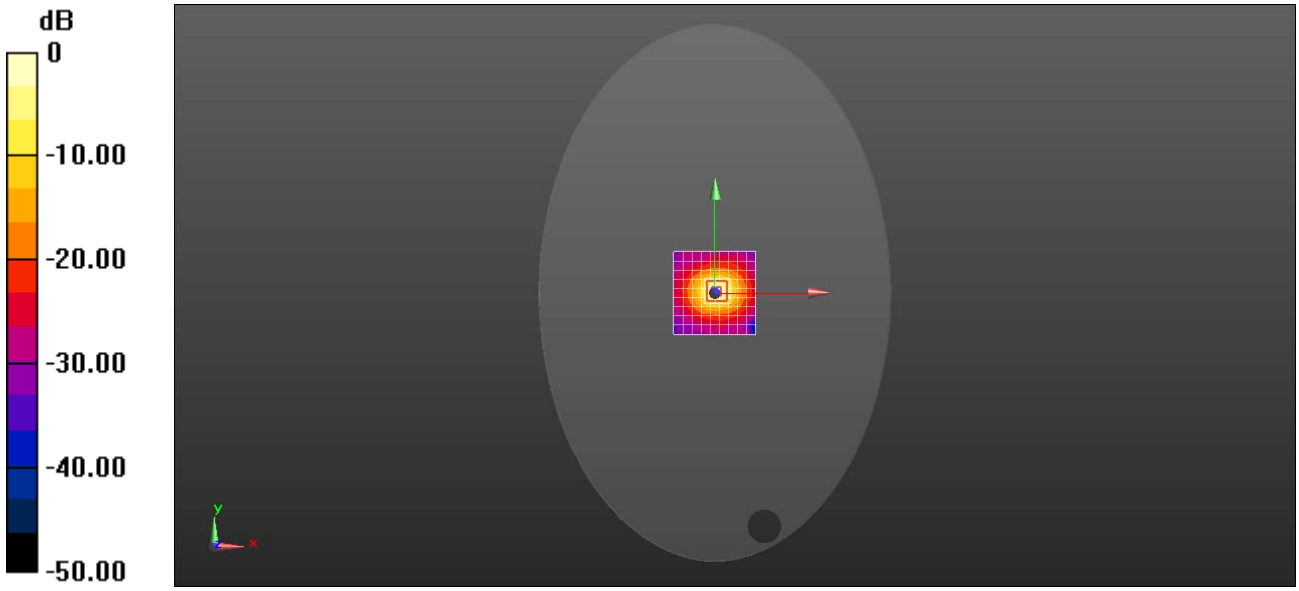
- ¿ Probe: EX3DV4 - SN3736; ConvF(3.92, 3.92, 3.92); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.4 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.79 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 28.0 W/kg
SAR(1 g) = 7.26 W/kg; SAR(10 g) = 2.04 W/kg
Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.37 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5600-EX-Head

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.056 S/m; ε_r = 36.001; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

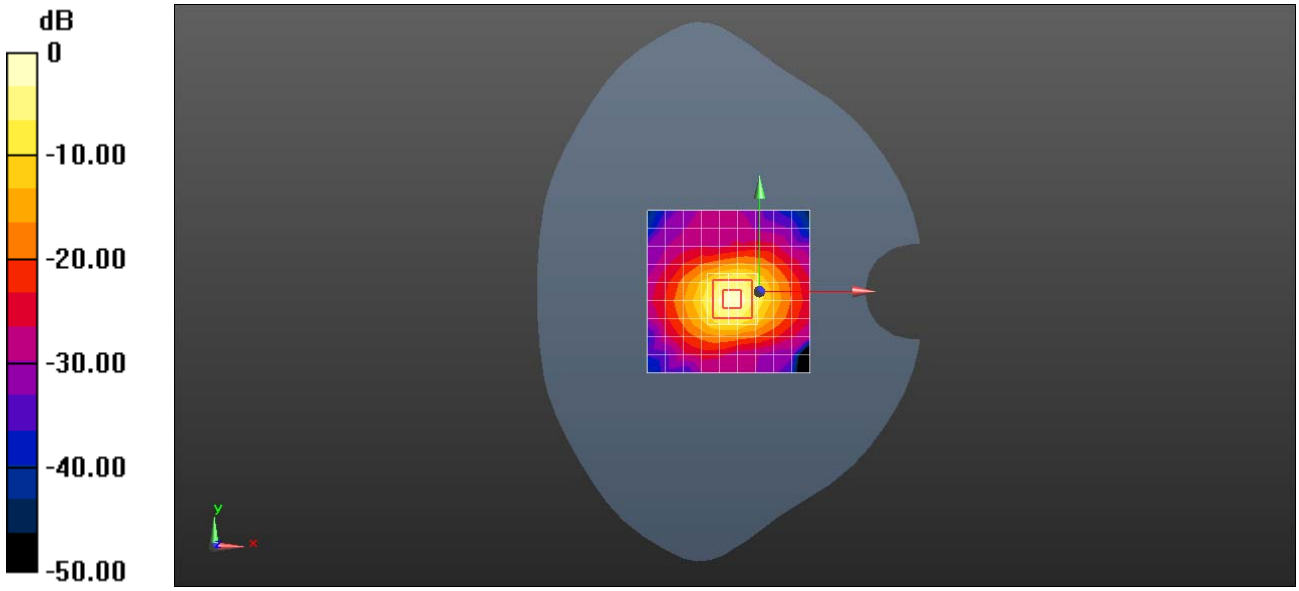
- ¿ Probe: EX3DV4 - SN3736; ConvF(4.29, 4.29, 4.29); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.5 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.95 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 38.3 W/kg
SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.39 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5600-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.901 S/m; ε_r = 48.34; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

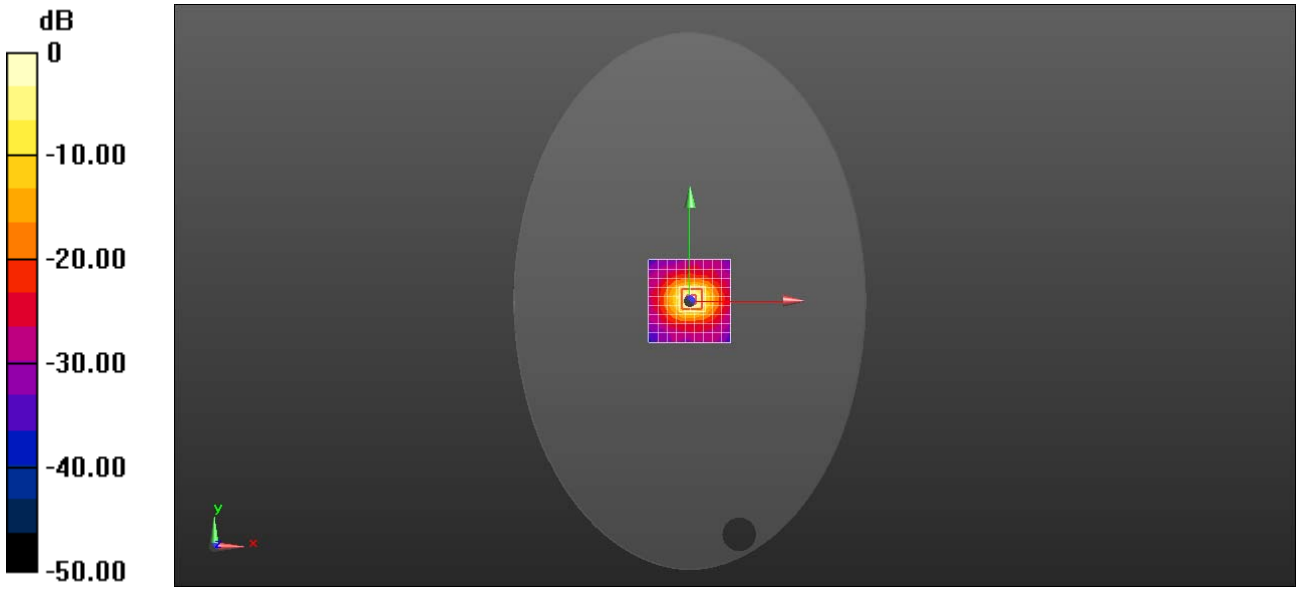
- ¿ Probe: EX3DV4 - SN3736; ConvF(3.48, 3.48, 3.48); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.1 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.78 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.12 W/kg
Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5750-EX-Head

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.359 S/m; ε_r = 34.339; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

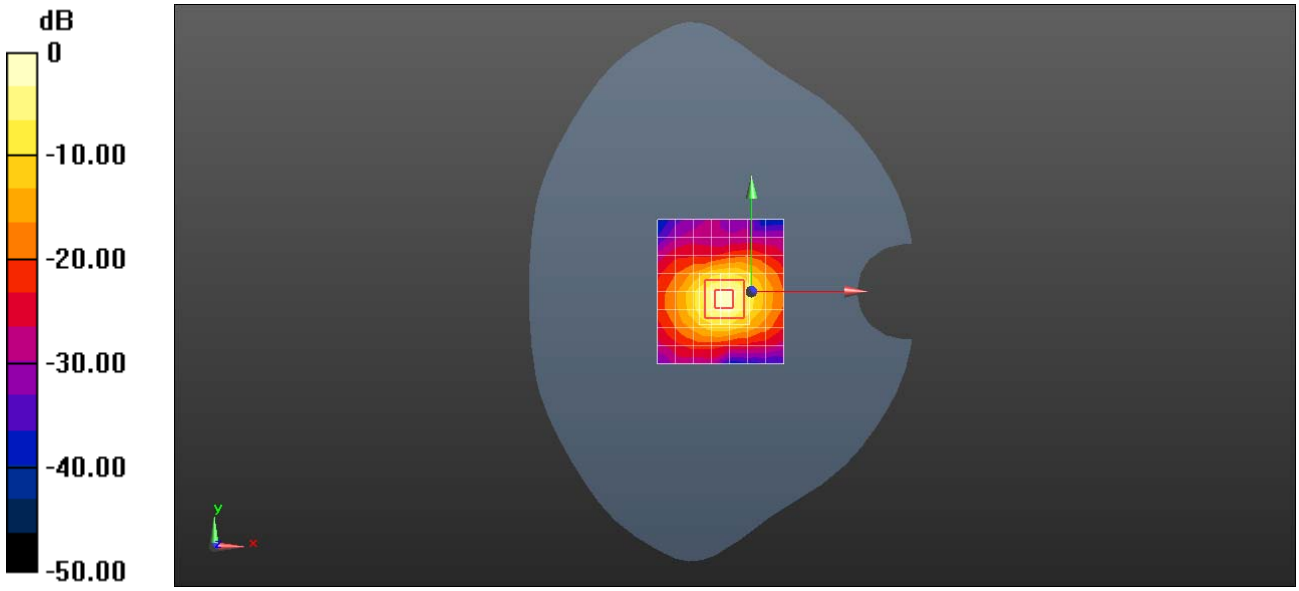
- ¿ Probe: EX3DV4 - SN3736; ConvF(4.44, 4.44, 4.44); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: SAM3; Type: SAM; Serial: TP-1597
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Area Scan (8x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.1 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.74 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 35.8 W/kg
SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.22 W/kg
Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.89 dBW/kg

Date: 2016-7-21

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D5750-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 6.01 S/m; ε_r = 46.874; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

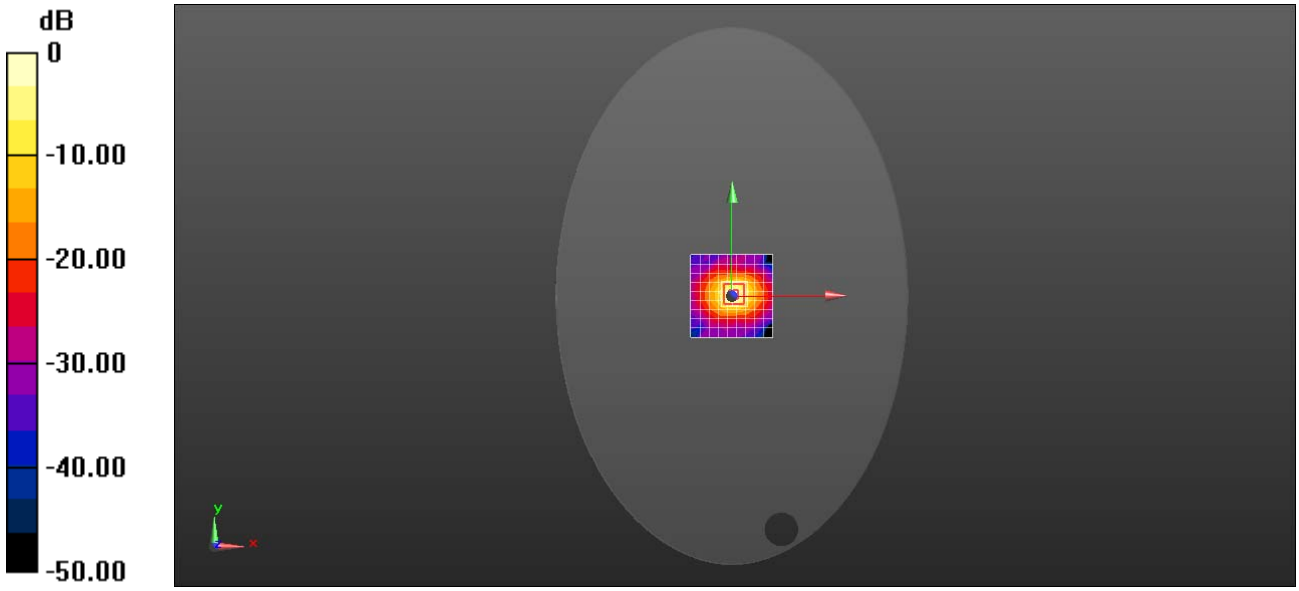
- ¿ Probe: EX3DV4 - SN3736; ConvF(3.6, 3.6, 3.6); Calibrated: 2016-4-26;
- ¿ Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ¿ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ¿ DASY52 52.8.8(1222);

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.7 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 62.43 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 28.6 W/kg
SAR(1 g) = 6.82 W/kg; SAR(10 g) = 1.89 W/kg
Maximum value of SAR (measured) = 17.1 W/kg



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