

**Appendix A. System Check Plots**

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System Validation-Probe

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; $\sigma = 0.953$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(10.66, 10.66, 10.66); Calibrated: 2017/10/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2017/9/25
- ε Phantom: SMA6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.60 W/kg

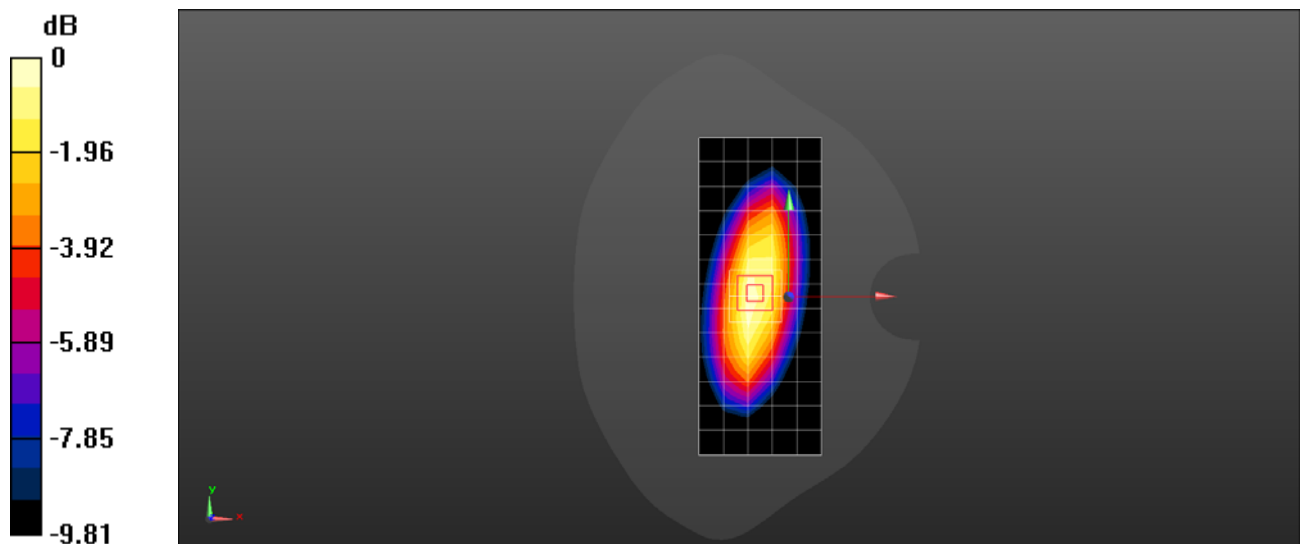
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 48.71 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (measured) = 2.75 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835$ MHz; $\sigma = 1$ S/m; $\epsilon_r = 53.422$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(9.4, 9.4, 9.4); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=15mm, Pin=250mW/Area Scan (6x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.33 W/kg

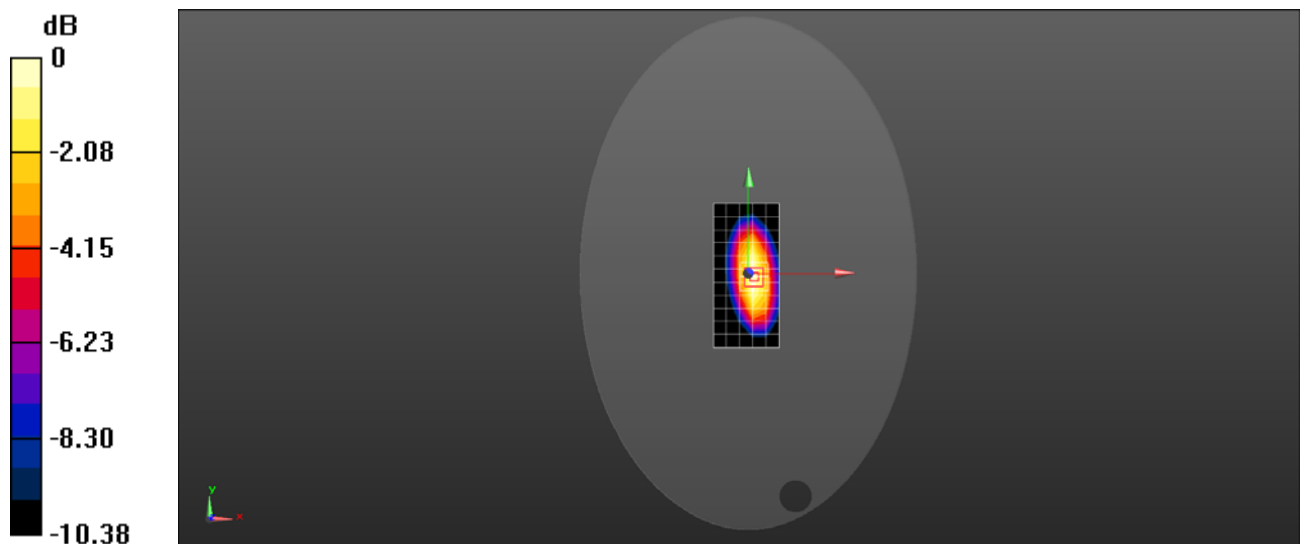
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 50.59 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.73 W/kg

SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.67 W/kg

Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.35 W/kg = 5.24 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 55.678$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(10.37, 10.37, 10.37); Calibrated: 2017/10/24;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2017/9/25
- ε Phantom: SMA6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

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

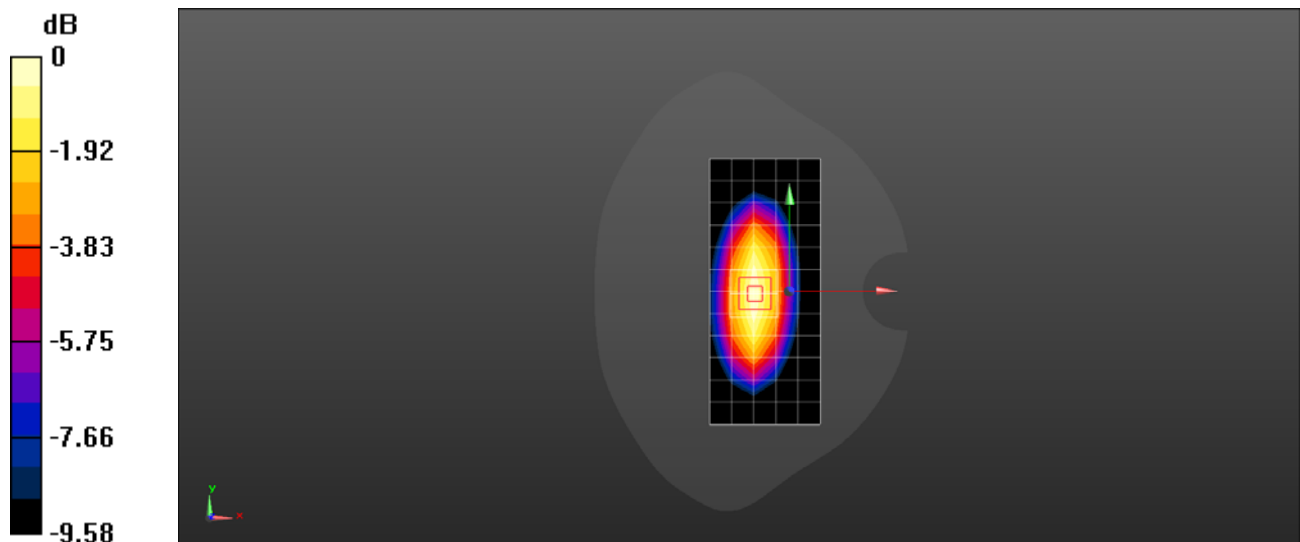
Maximum value of SAR (measured) = 2.72 W/kg

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

Reference Value = 50.02 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.59 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

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

Medium parameters used: $f = 835$ MHz; $\sigma = 1.003$ S/m; $\epsilon_r = 54.68$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(9.4, 9.4, 9.4); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=15mm, Pin=250mW/Area Scan (6x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.15 W/kg

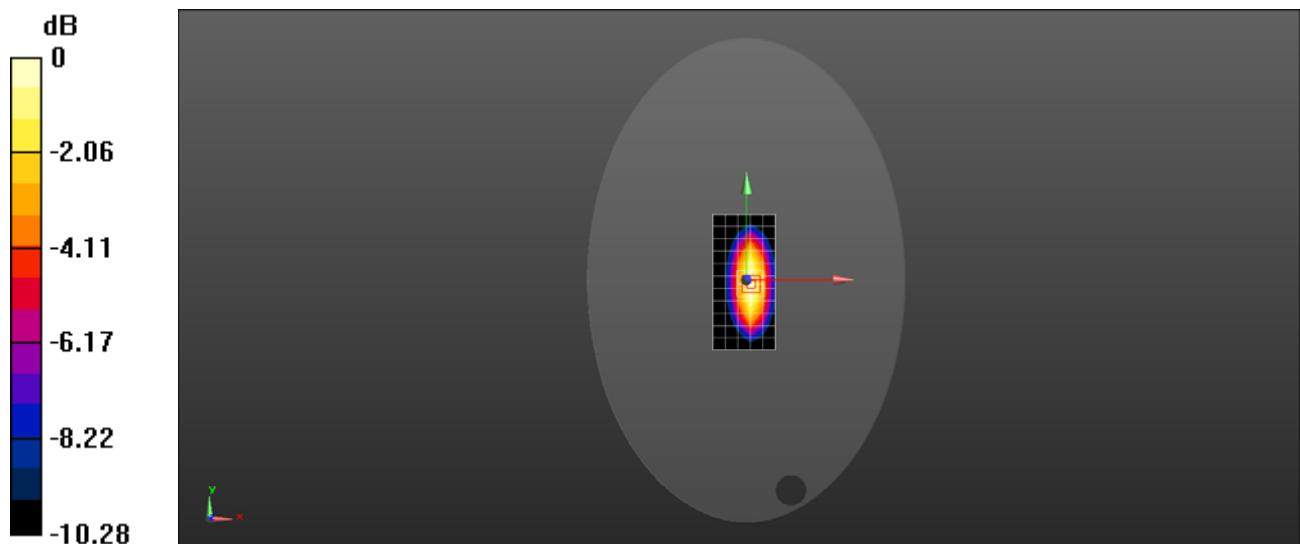
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 48.82 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1750-EX-Body

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1145

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 53.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(8.74, 8.74, 8.74); Calibrated: 2017/10/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2017/9/25
- ε Phantom: SMA6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 97.96 V/m; Power Drift = -0.01 dB

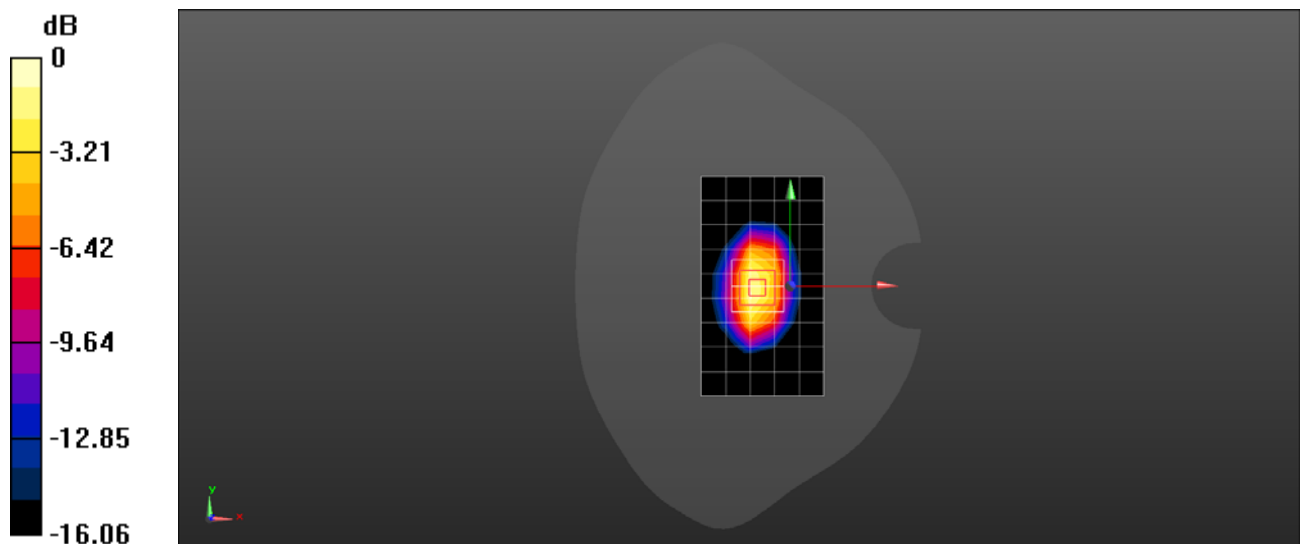
Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 9.13 W/kg; SAR(10 g) = 4.94 W/kg

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

Configuration/d=10mm pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-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; $\sigma = 1.526$ S/m; $\epsilon_r = 54.625$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(8.29, 8.29, 8.29); Calibrated: 2017/10/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2017/9/25
- ε Phantom: SMA6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 83.35 V/m; Power Drift = 0.03 dB

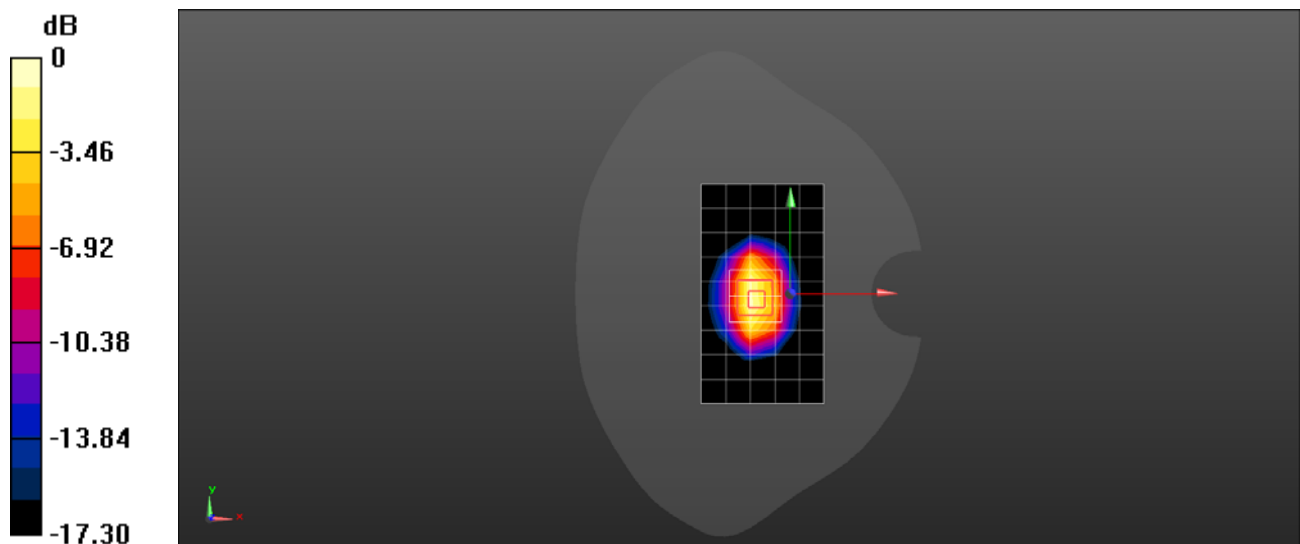
Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.63 W/kg

Maximum value of SAR (measured) = 16.2 W/kg

Configuration/d=10mm pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 14.0 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-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; $\sigma = 1.579$ S/m; $\epsilon_r = 52.654$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(7.65, 7.65, 7.65); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

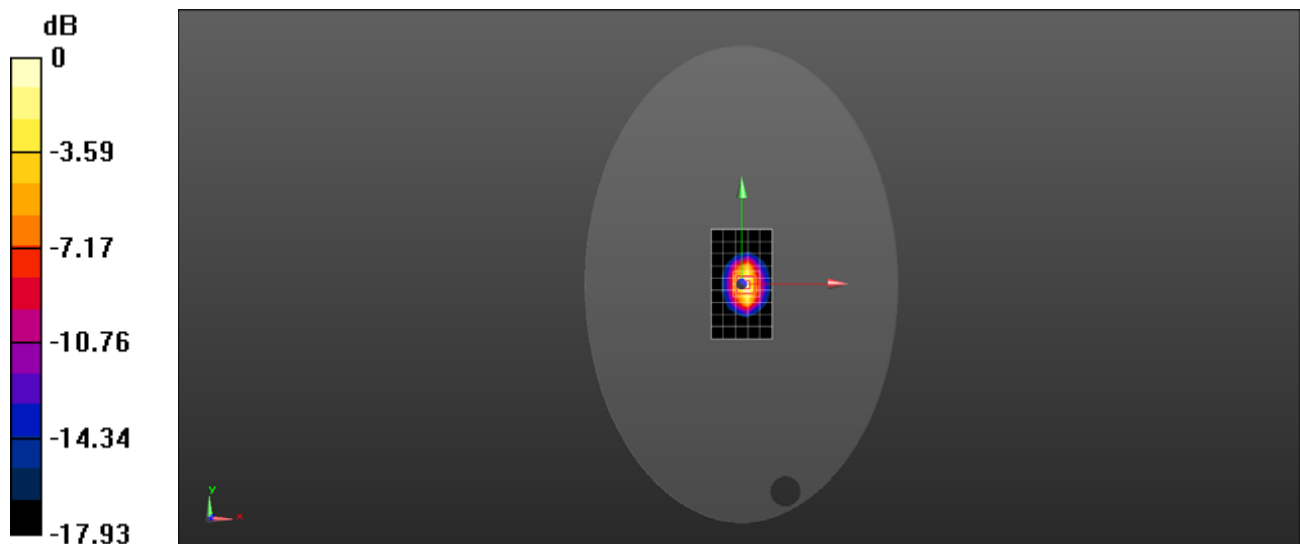
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 80.36 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.6 W/kg

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.18 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 -SN:978

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.994$ S/m; $\epsilon_r = 51.802$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(7.34, 7.34, 7.34); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 22.7 W/kg

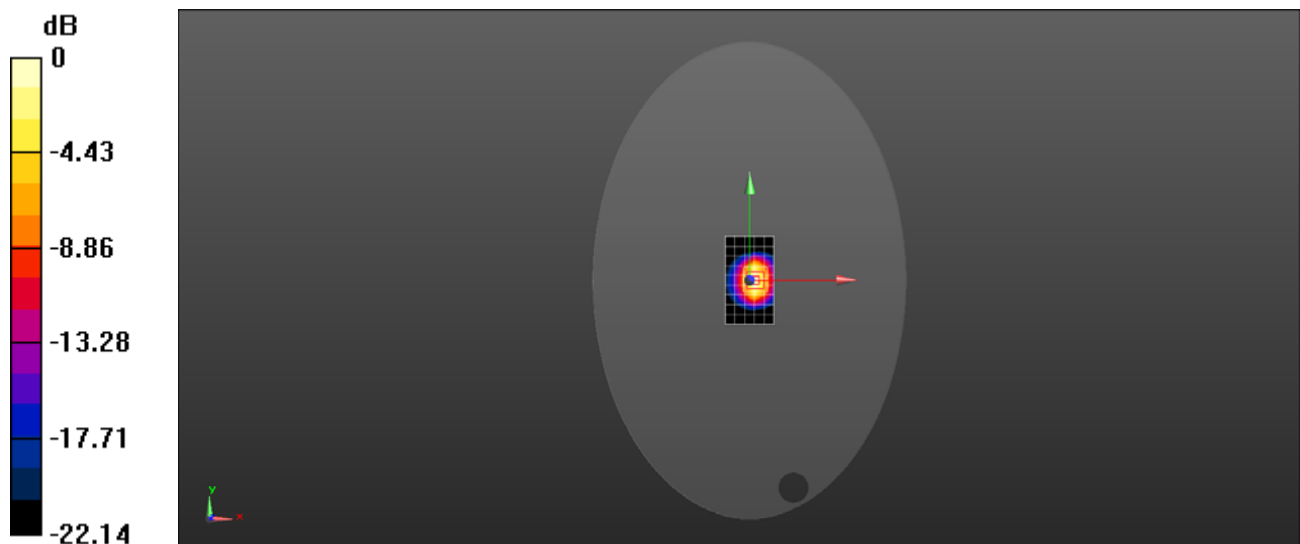
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 77.16 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.3 W/kg

Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.8 W/kg = 13.58 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 -SN:978

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.028$ S/m; $\epsilon_r = 51.051$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(7.34, 7.34, 7.34); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 18.8 W/kg

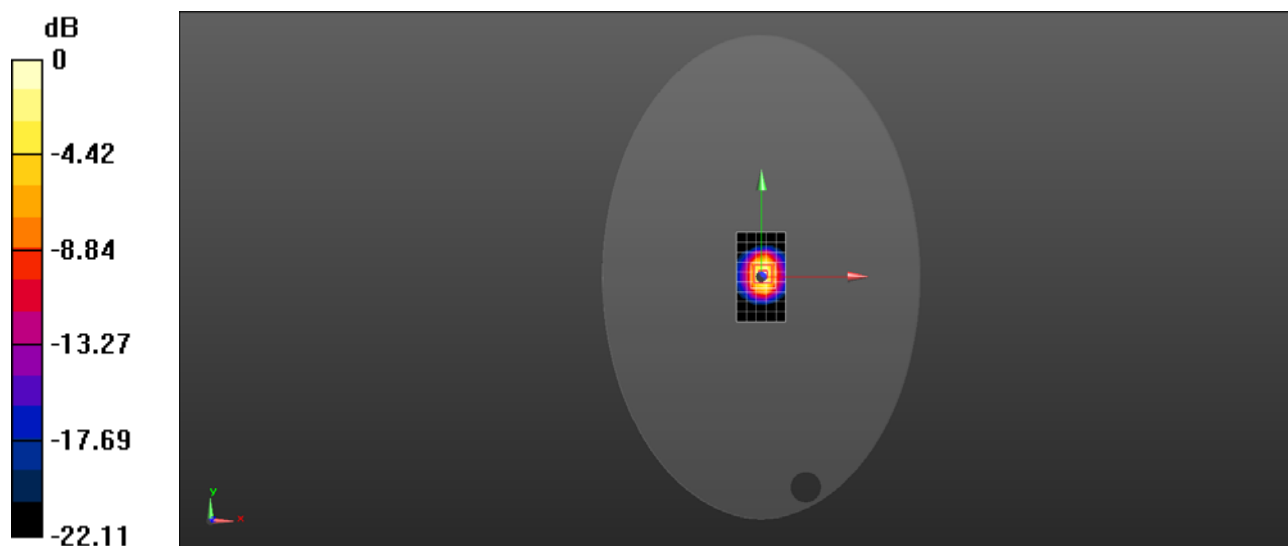
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 83.86 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.09 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.41 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1119

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.087$ S/m; $\epsilon_r = 51.87$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.73, 7.73, 7.73); Calibrated: 2017/10/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2017/9/25
- ε Phantom: SMA6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 18.6 W/kg

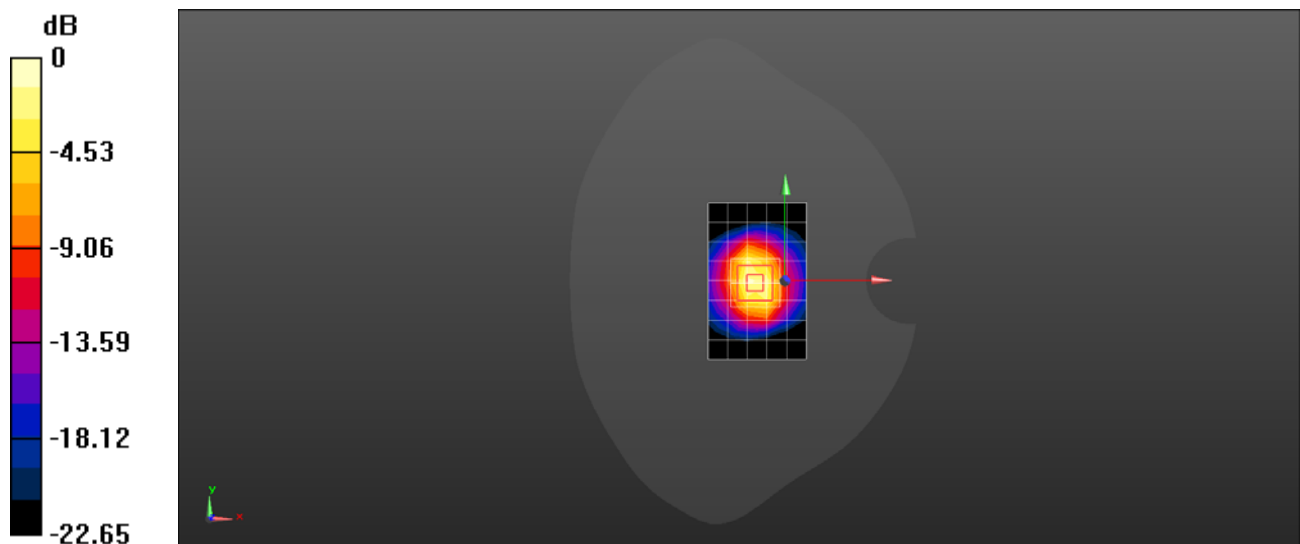
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 87.60 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 23.4 W/kg



0 dB = 23.4 W/kg = 13.69 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1119

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.18$ S/m; $\epsilon_r = 50.98$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(6.98, 6.98, 6.98); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (9x6x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 21.8 W/kg

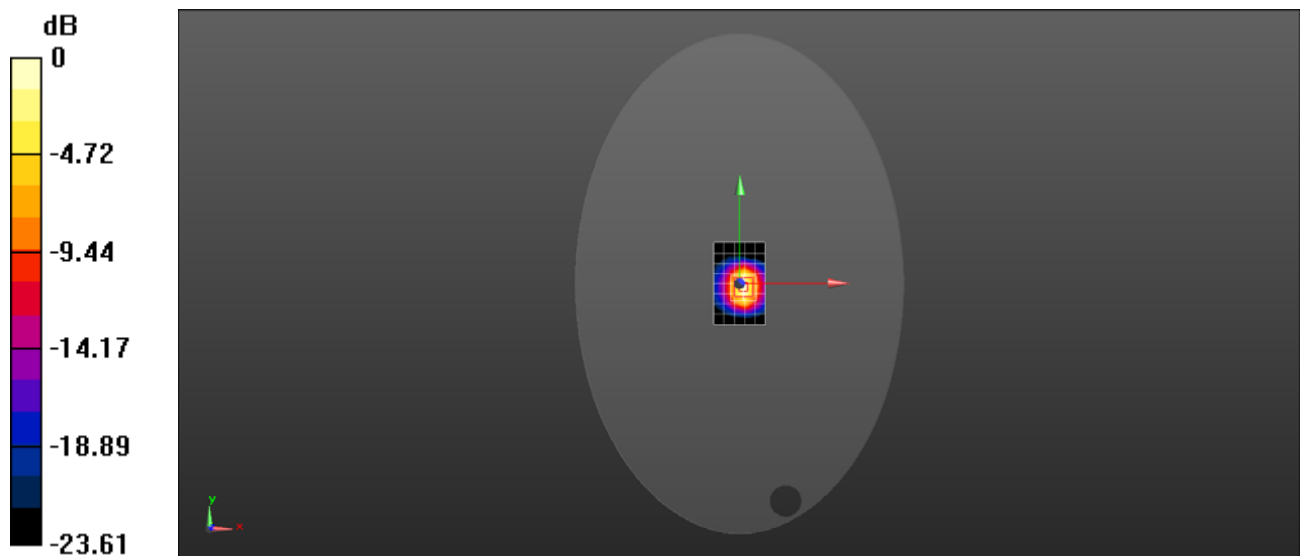
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 76.00 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 29.2 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.01 W/kg

Maximum value of SAR (measured) = 23.5 W/kg



0 dB = 23.5 W/kg = 13.70 dBW/kg

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; $\sigma = 5.378$ S/m; $\epsilon_r = 46.904$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(4.85, 4.85, 4.85); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 13.0 W/kg

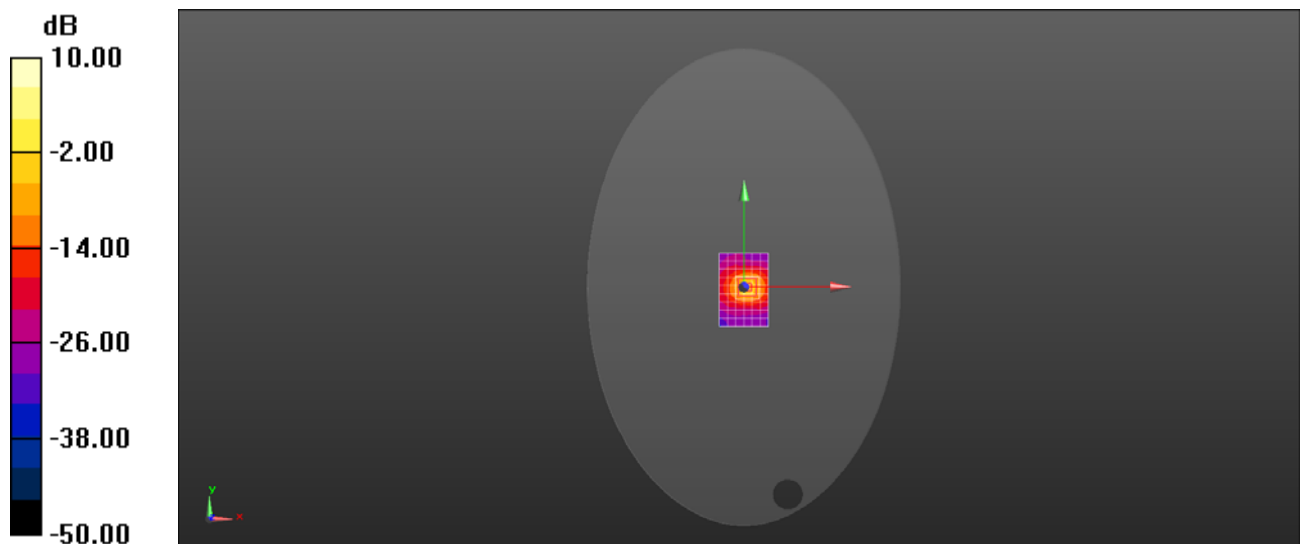
Configuration/d=10mm, Pin=250mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 55.86 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 6.94 W/kg; SAR(10 g) = 1.94 W/kg

Maximum value of SAR (measured) = 16.7 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

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; $\sigma = 5.867$ S/m; $\epsilon_r = 46.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(4.1, 4.1, 4.1); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (10x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 13.6 W/kg

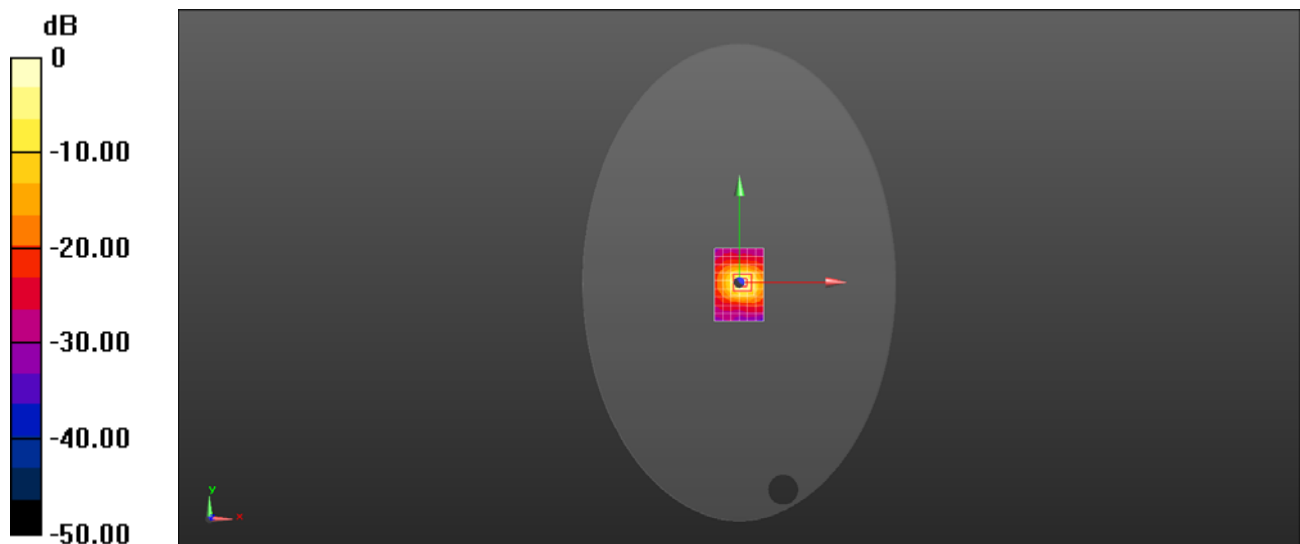
Configuration/d=10mm, Pin=250mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 58.86 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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; $\sigma = 6.09$ S/m; $\epsilon_r = 46.053$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3743; ConvF(4.32, 4.32, 4.32); Calibrated: 2017/11/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1235; Calibrated: 2017/11/16
- ε Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1110
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 14.3 W/kg

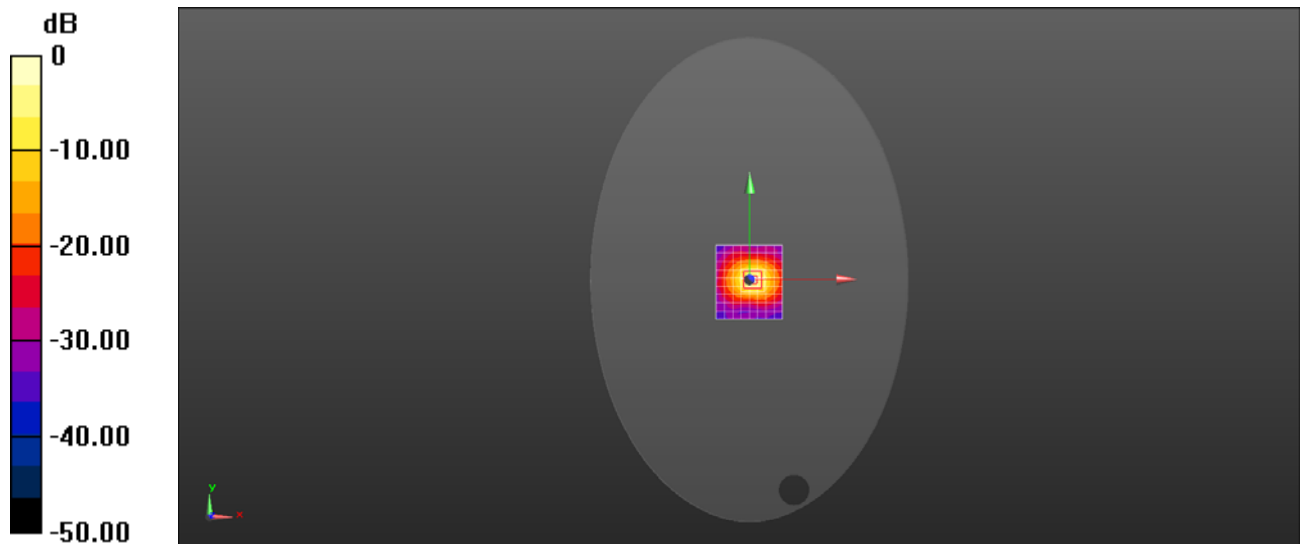
Configuration/d=10mm, Pin=250mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 56.63 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 18.2 W/kg



System Validation

Per FCC KDB 865664 D02, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

a tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Table of SAR System validation summary:

FREQ.[Mhz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL POINT		PERM	COND	CW VALIDATION			MOD.VALIDATION		
[Mhz]						(ϵ_r)	(σ)	SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR
835	2017/12/21	3743	EX3DV4	835	Head	41.88	0.920	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2017/12/21	3743	EX3DV4	1750	Head	39.92	1.334	PASS	PASS	PASS	NA	NA	N/A
1900	2017/12/21	3743	EX3DV4	1900	Head	39.64	1.427	PASS	PASS	PASS	GMSK	PASS	N/A
2300	2017/12/22	3743	EX3DV4	2300	Head	39.37	1.673	PASS	PASS	PASS	TDD	PASS	N/A
2450	2017/12/22	3743	EX3DV4	2450	Head	39.10	1.788	PASS	PASS	PASS	OFDM	PASS	PASS
2600	2017/12/22	3743	EX3DV4	2600	Head	38.76	1.895	PASS	PASS	PASS	TDD	PASS	N/A
5250	2017/12/22	3743	EX3DV4	5250	Head	35.82	4.506	PASS	PASS	PASS	OFDM	N/A	PASS
5600	2017/12/23	3743	EX3DV4	5600	Head	35.64	5.100	PASS	PASS	PASS	OFDM	N/A	PASS
5750	2017/12/23	3743	EX3DV4	5750	Head	35.50	5.083	PASS	PASS	PASS	OFDM	N/A	PASS
835	2017/12/21	3743	EX3DV4	835	Body	53.42	1.000	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2017/12/21	3743	EX3DV4	1750	Body	52.23	1.509	PASS	PASS	PASS	N/A	N/A	N/A
1900	2017/12/21	3743	EX3DV4	1900	Body	51.85	1.565	PASS	PASS	PASS	GMSK	PASS	N/A
2300	2017/12/22	3743	EX3DV4	2300	Body	52.01	1.857	PASS	PASS	PASS	TDD	PASS	N/A
2450	2017/12/22	3743	EX3DV4	2450	Body	51.80	1.994	PASS	PASS	PASS	OFDM	PASS	PASS
2600	2017/12/22	3743	EX3DV4	2600	Body	51.58	2.141	PASS	PASS	PASS	TDD	PASS	N/A
5250	2017/12/22	3743	EX3DV4	5250	Body	47.44	5.449	PASS	PASS	PASS	OFDM	N/A	PASS
5600	2017/12/23	3743	EX3DV4	5600	Body	46.82	5.910	PASS	PASS	PASS	OFDM	N/A	PASS
5750	2017/12/23	3743	EX3DV4	5750	Body	46.41	6.158	PASS	PASS	PASS	OFDM	N/A	PASS

FREQ.	DATE	PROBE SN	PROBE TYPE	PROBE CAL POINT		PERM	COND	CW VALIDATION			MOD.VALIDATION		
[Mhz]						(ϵ_r)	(σ)	SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR
750	2017/12/10	7381	EX3DV4	750	Head	42.47	0.850	PASS	PASS	PASS	NA	NA	N/A
835	2017/12/10	7381	EX3DV4	835	Head	42.16	0.879	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2017/12/10	7381	EX3DV4	1750	Head	40.83	1.332	PASS	PASS	PASS	NA	NA	N/A
1900	2017/12/10	7381	EX3DV4	1900	Head	40.60	1.417	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2017/12/10	7381	EX3DV4	2450	Head	38.15	1.743	PASS	PASS	PASS	OFDM	PASS	PASS
2600	2017/12/10	7381	EX3DV4	2600	Head	39.59	1.883	PASS	PASS	PASS	TDD	PASS	N/A
5250	2017/12/10	7381	EX3DV4	5250	Head	36.54	4.532	PASS	PASS	PASS	OFDM	N/A	PASS
5600	2017/12/10	7381	EX3DV4	5600	Head	35.95	4.923	PASS	PASS	PASS	OFDM	N/A	PASS
5750	2017/12/10	7381	EX3DV4	5750	Head	35.41	5.099	PASS	PASS	PASS	OFDM	N/A	PASS
750	2017/12/10	7381	EX3DV4	750	Body	57.39	1.000	PASS	PASS	PASS	N/A	N/A	N/A
835	2017/12/10	7381	EX3DV4	835	Body	54.30	0.95	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2017/12/10	7381	EX3DV4	1750	Body	52.63	1.431	PASS	PASS	PASS	N/A	N/A	N/A
1900	2017/12/10	7381	EX3DV4	1900	Body	52.33	1.536	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2017/12/10	7381	EX3DV4	2450	Body	51.56	1.977	PASS	PASS	PASS	OFDM	PASS	PASS
2600	2017/12/10	7381	EX3DV4	2600	Body	51.29	2.119	PASS	PASS	PASS	TDD	PASS	N/A
5250	2017/12/10	7381	EX3DV4	5250	Body	47.46	5.259	PASS	PASS	PASS	OFDM	N/A	PASS
5600	2017/12/10	7381	EX3DV4	5600	Body	47.34	5.911	PASS	PASS	PASS	OFDM	N/A	PASS
5750	2017/12/10	7381	EX3DV4	5750	Body	47.50	5.966	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.