

**Appendix A. System Check Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-EX-Head

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; $\sigma = 0.903$ S/m; $\epsilon_r = 39.944$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: SAM7; Type: QD000P40CC; Serial: TP-1594
- 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) = 3.28 W/kg

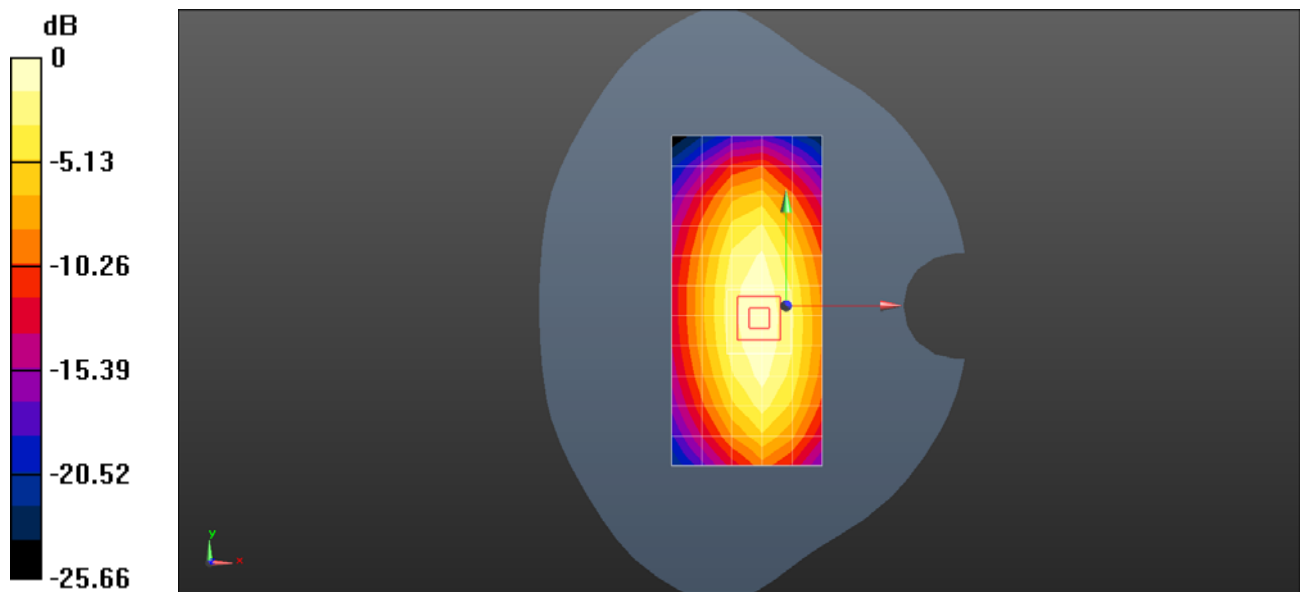
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 53.61 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.28 W/kg = 5.16 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1750-EX-Head

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; $\sigma = 1.325$ S/m; $\epsilon_r = 39.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: SAM7; Type: QD000P40CC; Serial: TP-1594
- 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) = 10.3 W/kg

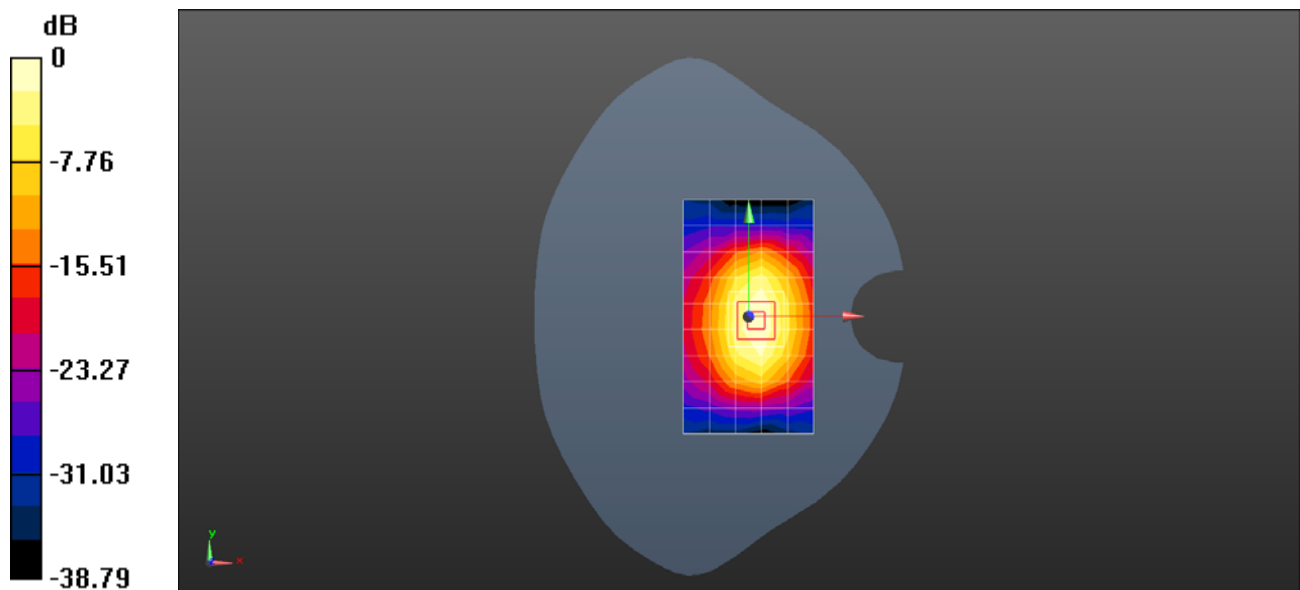
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 81.34 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 8.99 W/kg; SAR(10 g) = 4.76 W/kg

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 10.3 W/kg = 10.15 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-EX-Head

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d143

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.423$ S/m; $\epsilon_r = 38.303$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: SAM7; Type: QD000P40CC; Serial: TP-1594
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

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

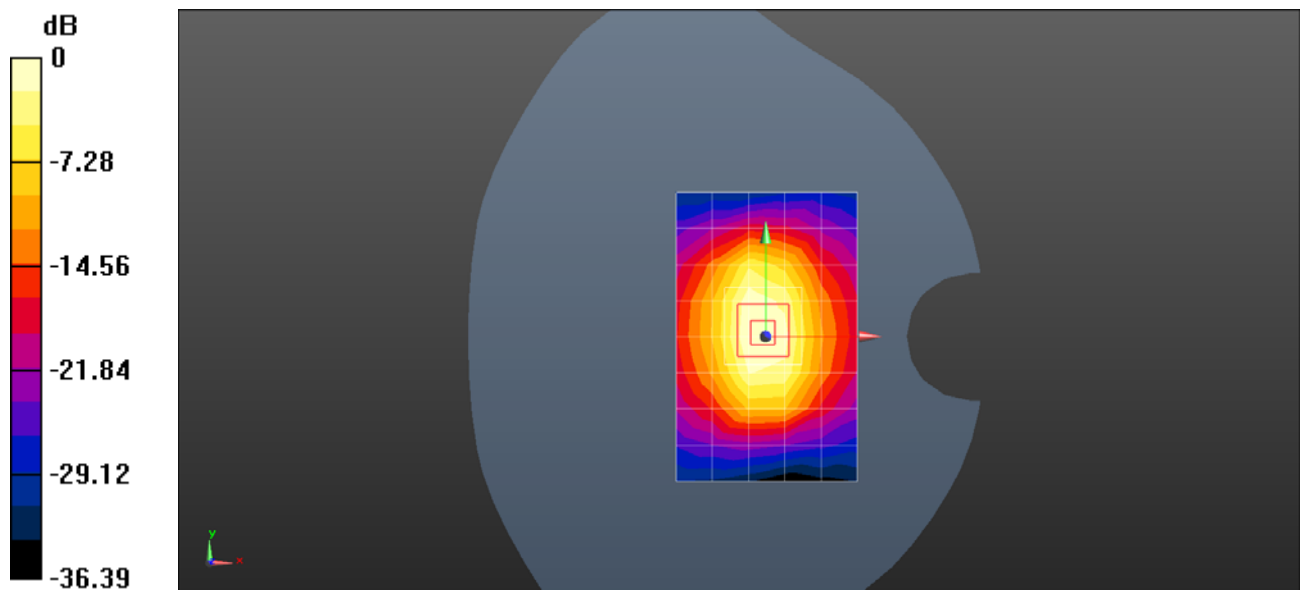
Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 90.36 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.49 W/kg

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



0 dB = 12.1 W/kg = 10.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2600-EX-Head

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; $\sigma = 1.893$ S/m; $\epsilon_r = 37.406$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.01, 7.01, 7.01); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: SAM7; Type: QD000P40CC; Serial: TP-1594
- 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) = 21.9 W/kg

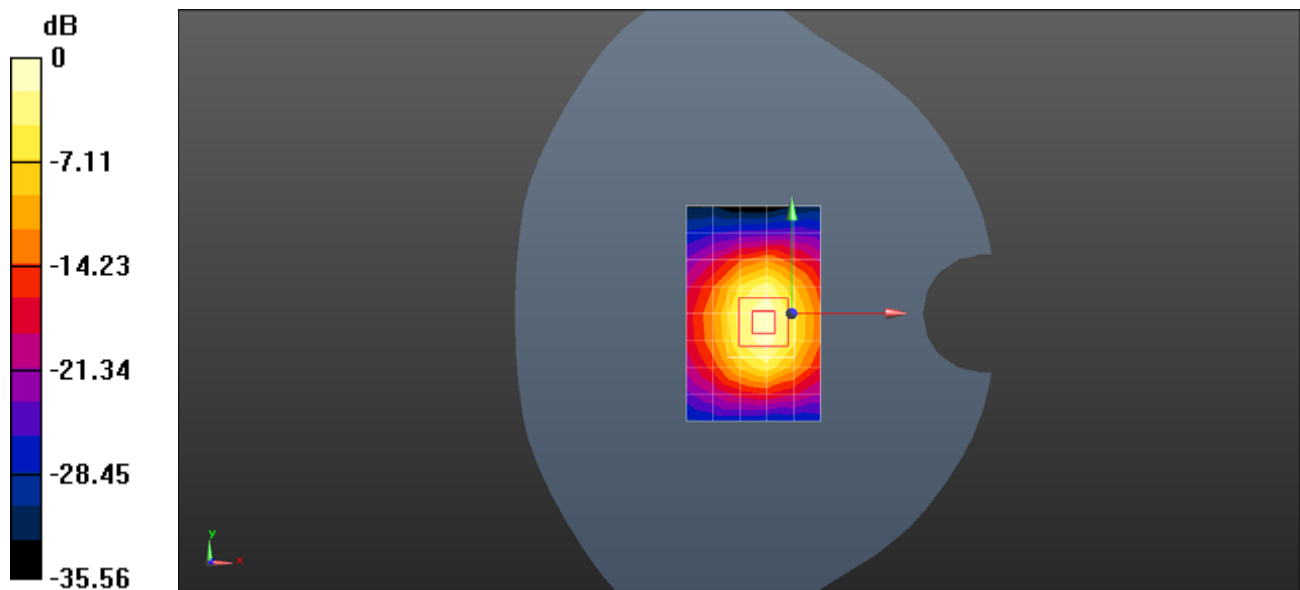
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 85.20 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.39 W/kg

Maximum value of SAR (measured) = 23.8 W/kg



0 dB = 21.9 W/kg = 13.41 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; $\sigma = 1$ S/m; $\epsilon_r = 53.575$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- 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) = 3.36 W/kg

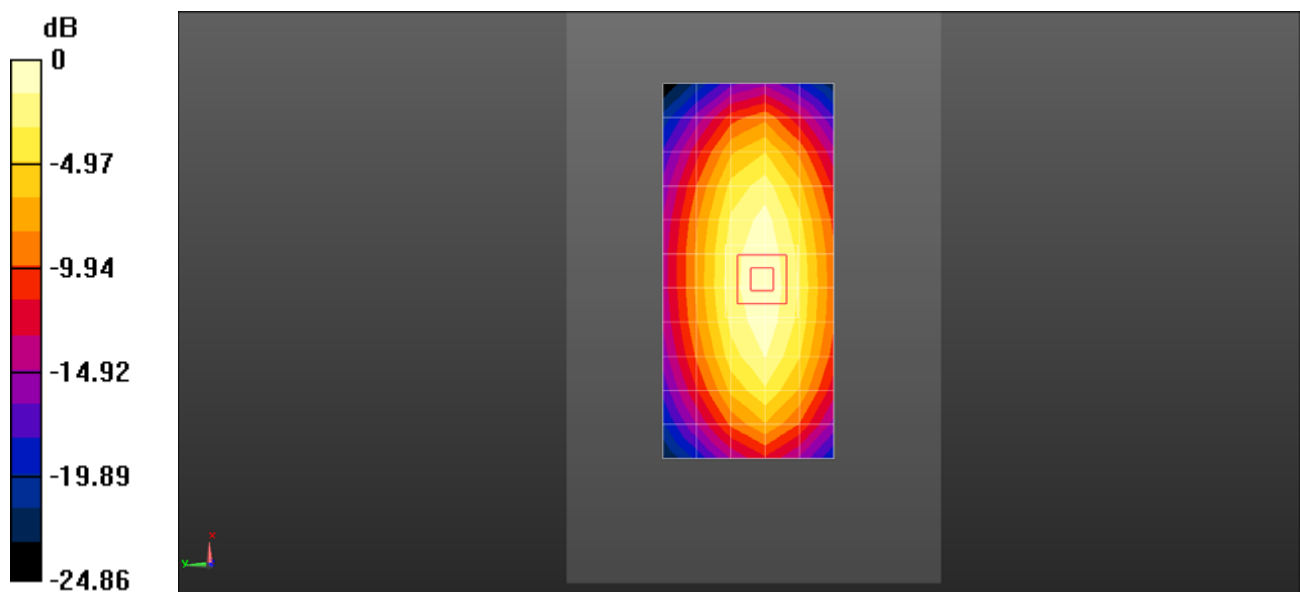
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 48.79 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 3.11 W/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; $\sigma = 1.535$ S/m; $\epsilon_r = 53.199$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.8, 7.8, 7.8); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- 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) = 15.2 W/kg

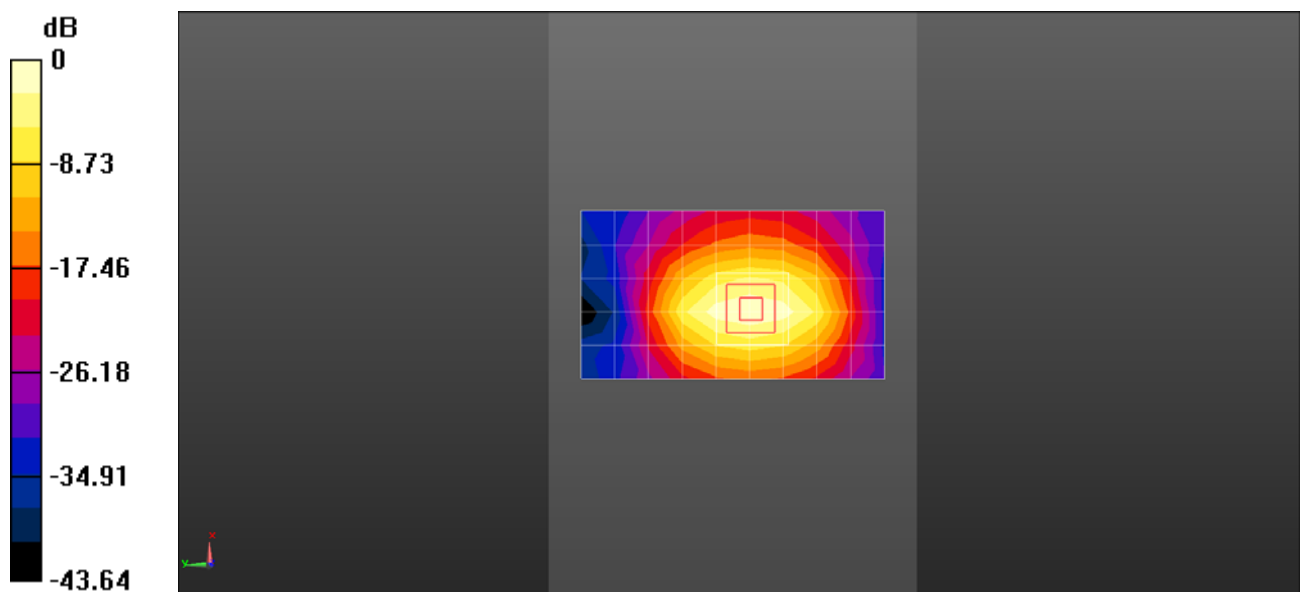
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 71.90 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.97 W/kg; SAR(10 g) = 5.26 W/kg

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



0 dB = 15.2 W/kg = 11.82 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d143

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.573$ S/m; $\epsilon_r = 52.622$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- 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

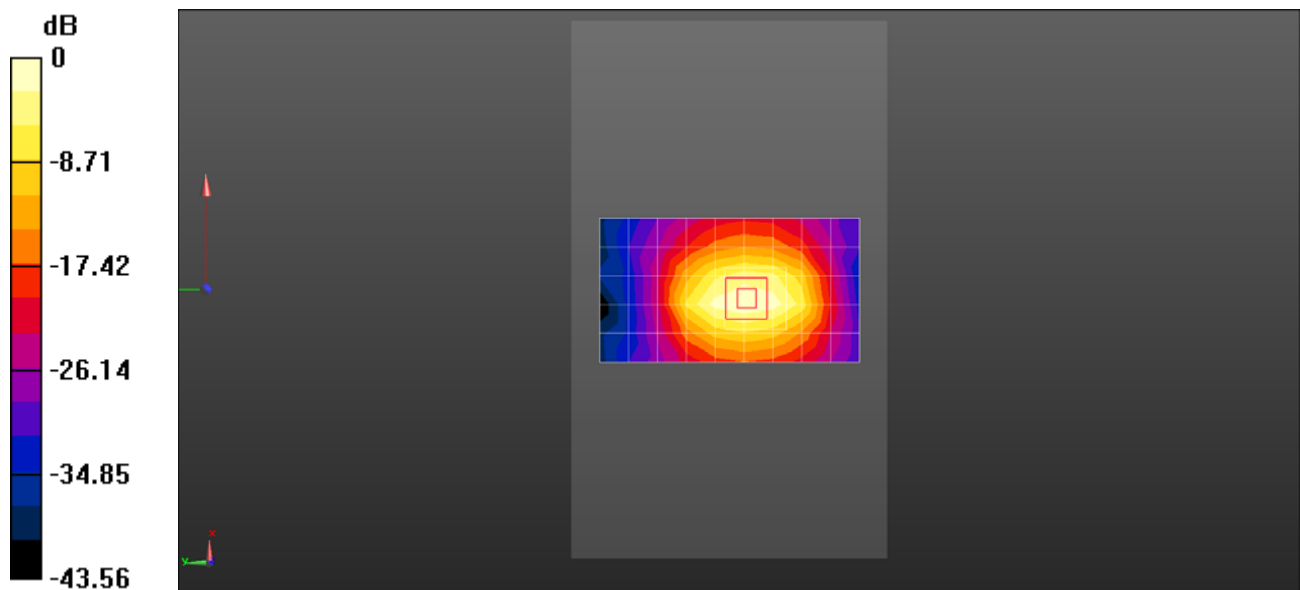
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 76.96 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.47 W/kg

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



0 dB = 15.1 W/kg = 11.80 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d143

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.593$ S/m; $\epsilon_r = 51.685$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- 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) = 16.2 W/kg

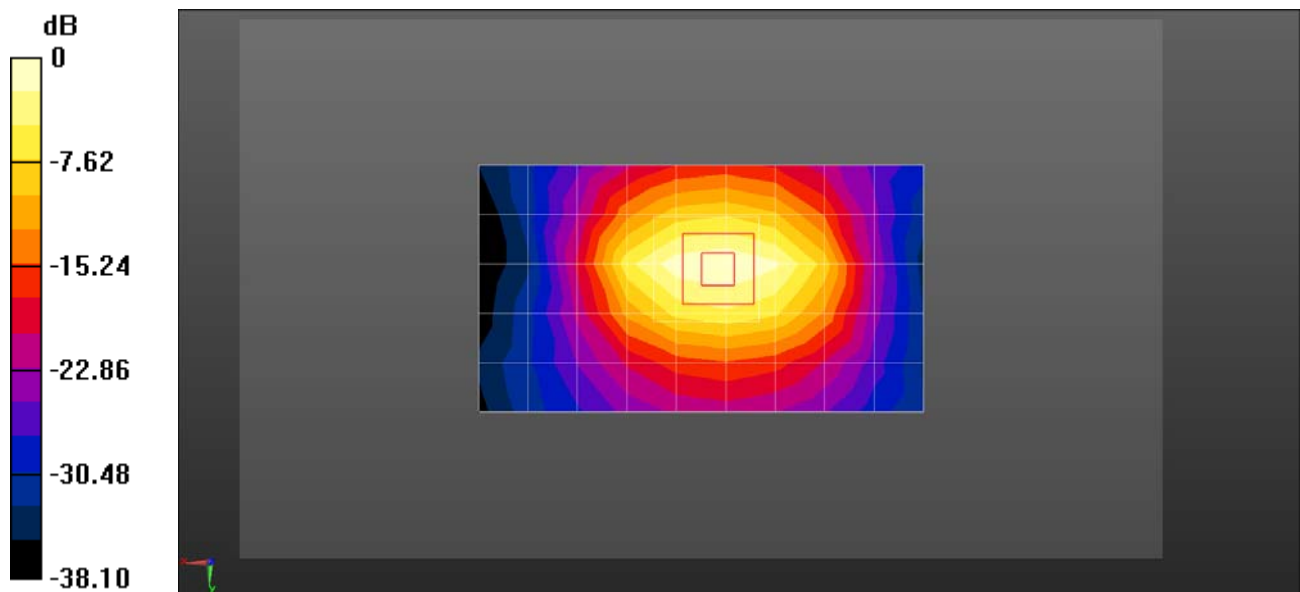
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 73.54 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.49 W/kg

Maximum value of SAR (measured) = 16.3 W/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; $\sigma = 2.058$ S/m; $\epsilon_r = 51.953$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(6.96, 6.96, 6.96); Calibrated: 2017/4/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2017/7/18
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- 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) = 22.0 W/kg

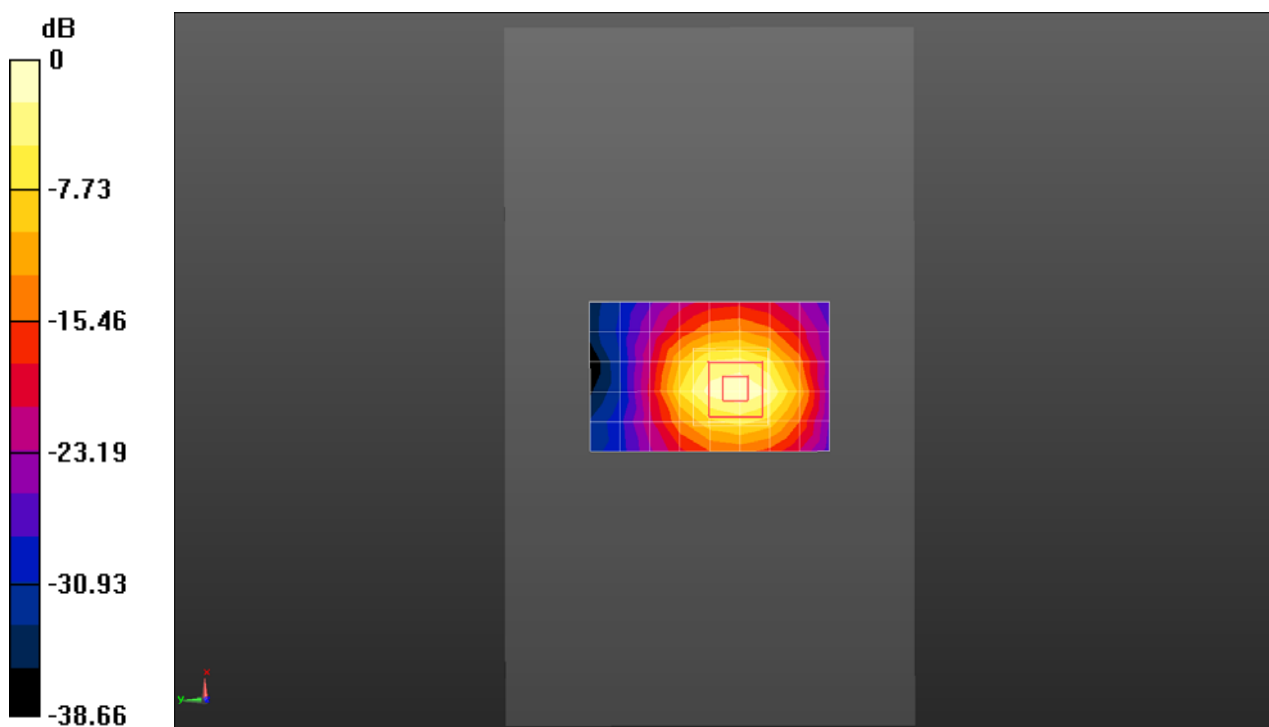
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 70.08 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.77 W/kg

Maximum value of SAR (measured) = 22.9 W/kg



0 dB = 22.0 W/kg = 13.43 dBW/kg