



## Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D835-EX-Head

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.913$  mho/m;  $\epsilon_r = 41.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(9.01, 9.01, 9.01); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

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

Maximum value of SAR (measured) = 2.65 mW/g

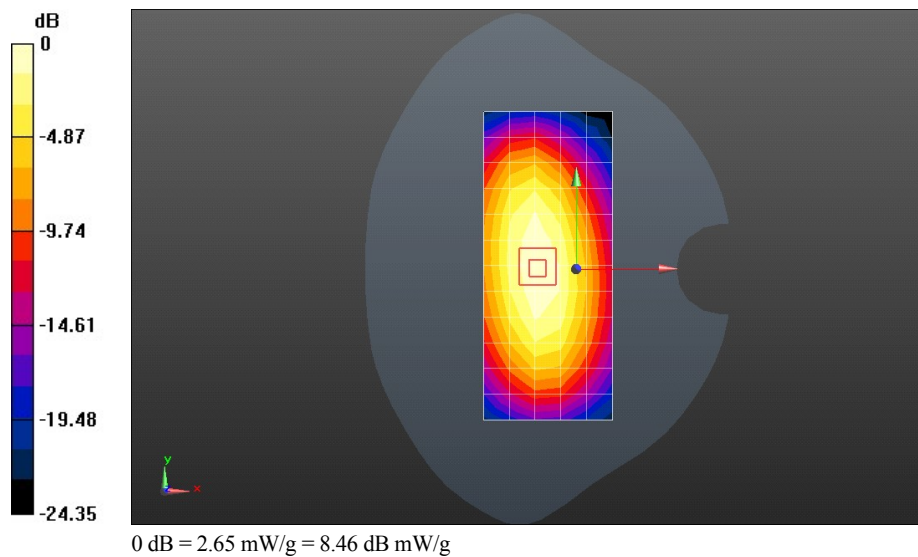
**Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 52.987 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.748 mW/g

**SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.62 mW/g**

Maximum value of SAR (measured) = 2.69 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D835-EX-Body

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.991$  mho/m;  $\epsilon_r = 56.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.98, 8.98, 8.98); Calibrated: 11/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=15mm,pin=250mW/Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.80 mW/g

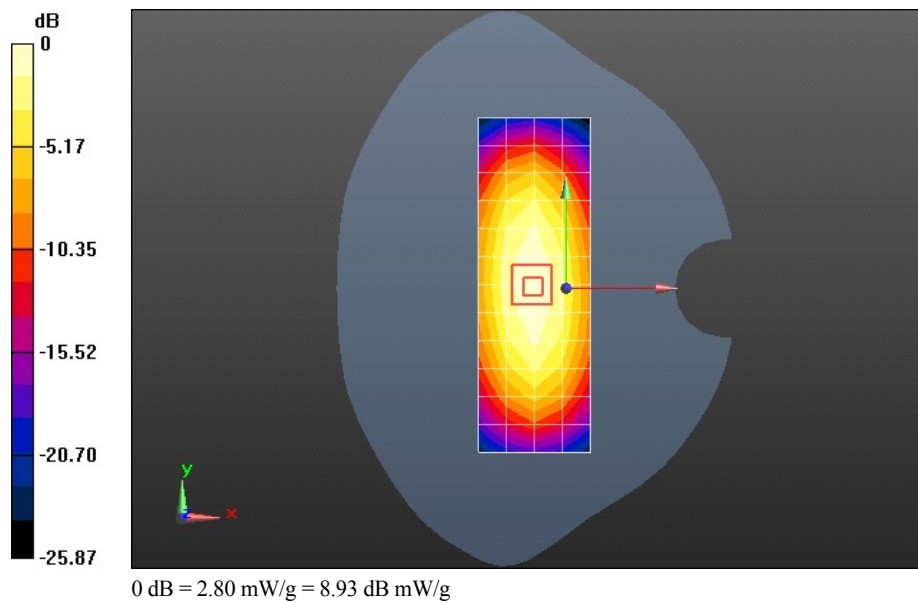
**Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 53.174 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.881 mW/g

**SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.71 mW/g**

Maximum value of SAR (measured) = 2.82 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D1800-EX-Head

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:2d184**

Communication System: CW; Frequency: 1800 MHz

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.456$  mho/m;  $\epsilon_r = 40.212$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.94, 7.94, 7.94); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 11.0 mW/g

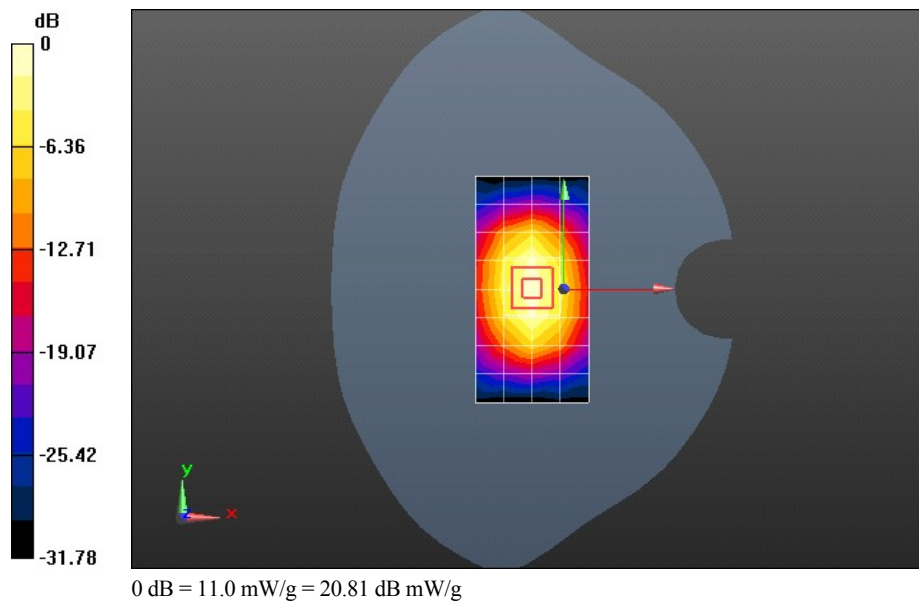
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 87.389 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 18.227 mW/g

**SAR(1 g) = 9.67 mW/g; SAR(10 g) = 4.96 mW/g**

Maximum value of SAR (measured) = 10.9 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D1800-EX-Body

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:2d184**

Communication System: CW; Frequency: 1800 MHz

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.547$  mho/m;  $\epsilon_r = 52.938$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.43, 7.43, 7.43); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (7x13x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.4 mW/g

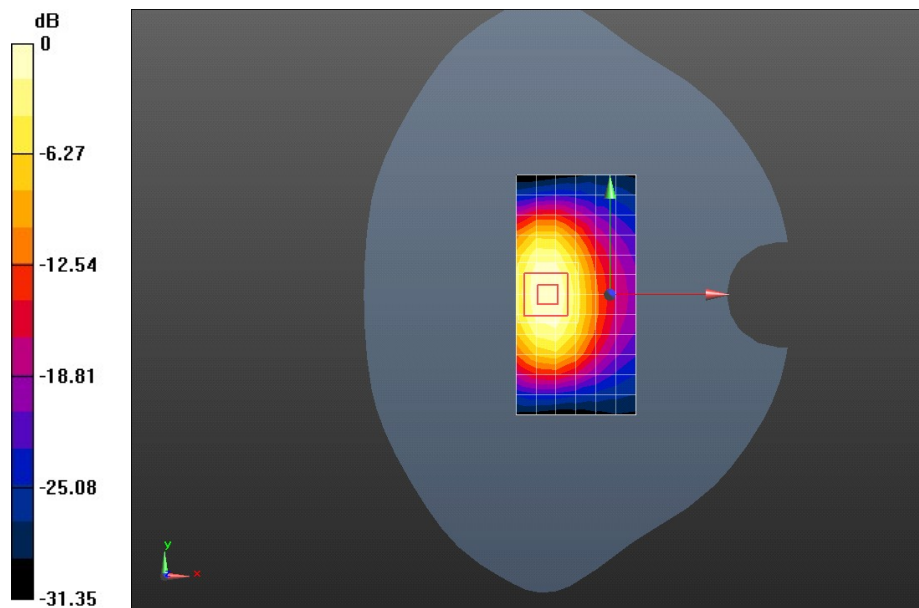
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.295 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 18.047 mW/g

**SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.19 mW/g**

Maximum value of SAR (measured) = 11.1 mW/g



0 dB = 10.4 mW/g = 20.36 dB mW/g

Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D1900-EX-Head

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.449$  mho/m;  $\epsilon_r = 39.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.67, 7.67, 7.67); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (5x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 10.3 mW/g

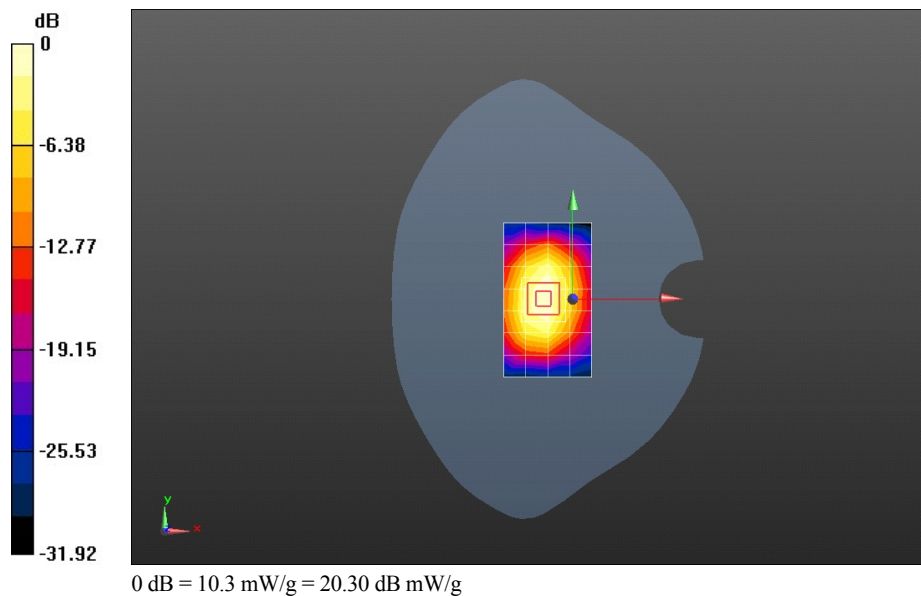
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 88.026 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 19.723 mW/g

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.25 mW/g**

Maximum value of SAR (measured) = 11.6 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D1900-EX-Body

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.558$  mho/m;  $\epsilon_r = 52.874$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.14, 7.14, 7.14); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (5x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 10.6 mW/g

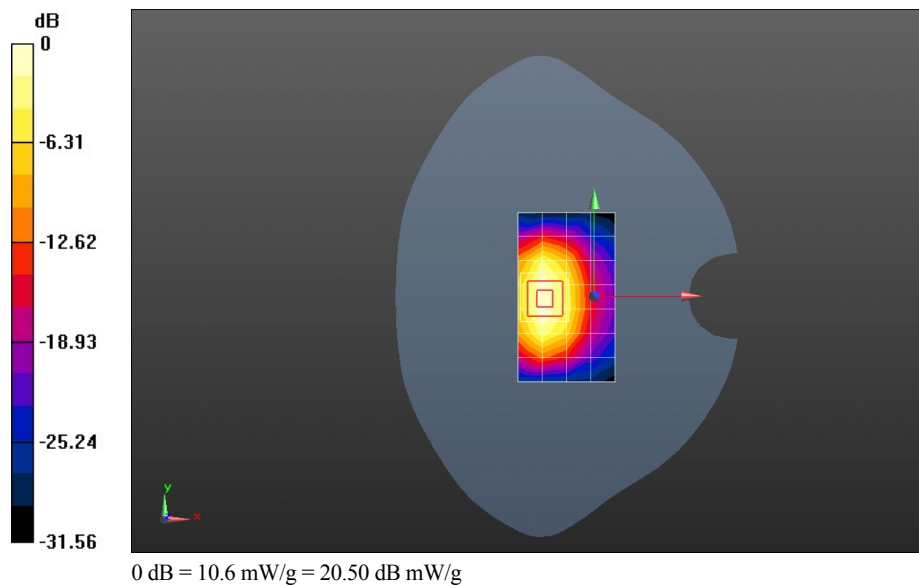
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 50.756 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.948 mW/g

**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.37 mW/g**

Maximum value of SAR (measured) = 11.6 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D2450-EX-Head

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

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.815$  mho/m;  $\epsilon_r = 40.138$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(6.78, 6.78, 6.78); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.5 mW/g

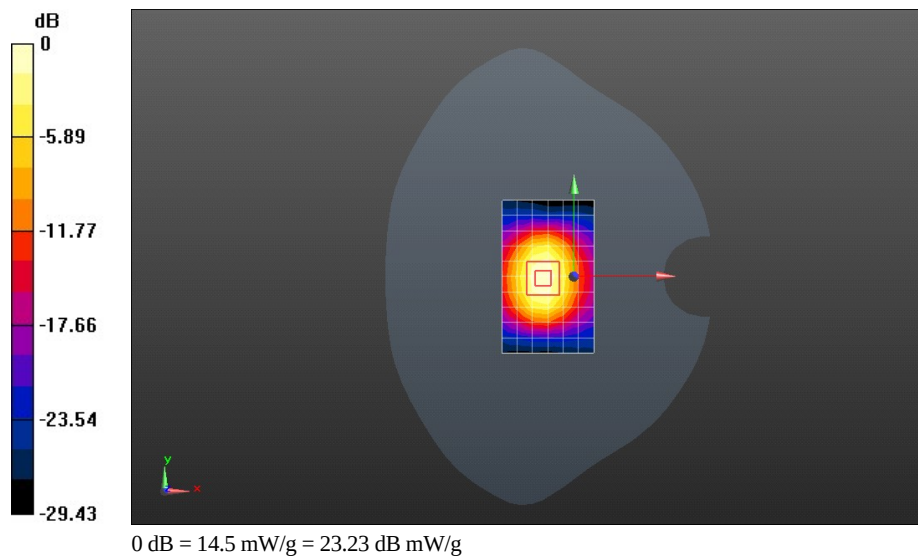
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.658 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 29.847 mW/g

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.19 mW/g**

Maximum value of SAR (measured) = 15.4 mW/g



Test Laboratory: HUAWEI SAR Lab

## SystemPerformanceCheck-D2450-EX-Body

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

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.009$  mho/m;  $\epsilon_r = 52.182$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(6.85, 6.85, 6.85); Calibrated: 4/26/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 11/16/2011
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/d=10mm, Pin=250mW/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.4 mW/g

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

Reference Value = 69.126 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 29.382 mW/g

**SAR(1 g) = 13.6 mW/g; SAR(10 g) = 6.09 mW/g**

Maximum value of SAR (measured) = 15.7 mW/g

