

Test Laboratory: Compliance Certification Services

## System Performance Check @ 835MHz

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d002**

Phantom section: Flat Section

Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.913 \text{ mho/m}$ ;  $\epsilon_r = 41$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DAS4 (High Precision Assessment)

- **Room Ambient Temperature: 23.5 deg. C; Liquid Temperature: 23.0 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.7, 10.7, 10.7);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**d=15mm, Pin=250mW/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.07 mW/g

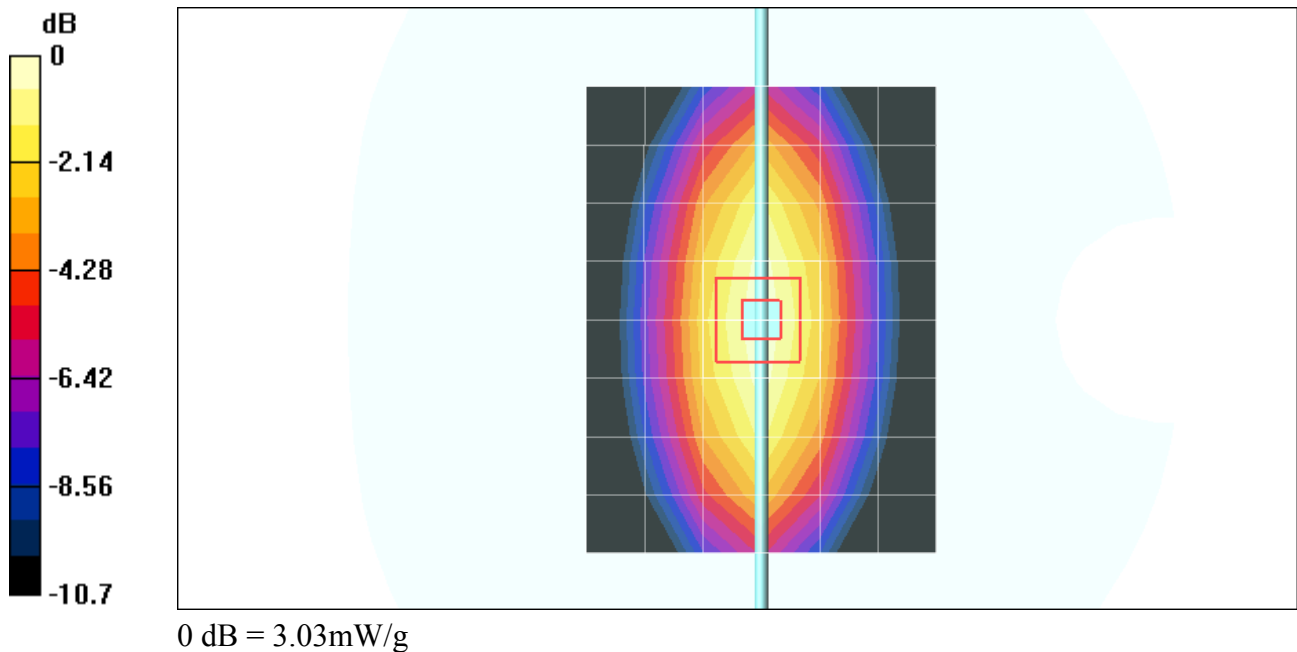
**d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 58.6 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.71 W/kg

**SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.61 mW/g**

Maximum value of SAR (measured) = 3.03 mW/g



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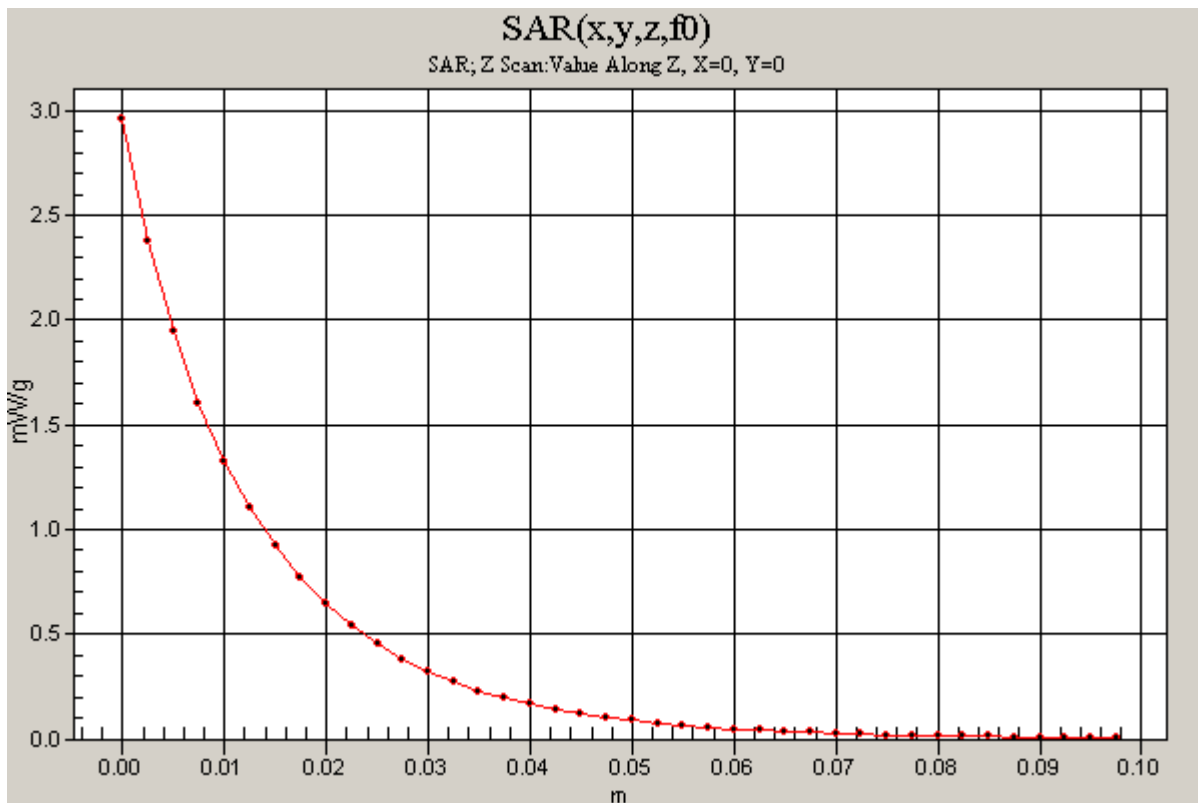
## System Performance Check @ 835MHz

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d002**

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

**d=15mm, Pin=250mW/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 2.96 mW/g



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## System Performance Check @ 835 MHz

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d002**

Phantom section: Flat Section

Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 41.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.7, 10.7, 10.7);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**d=15mm, Pin=250mW/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

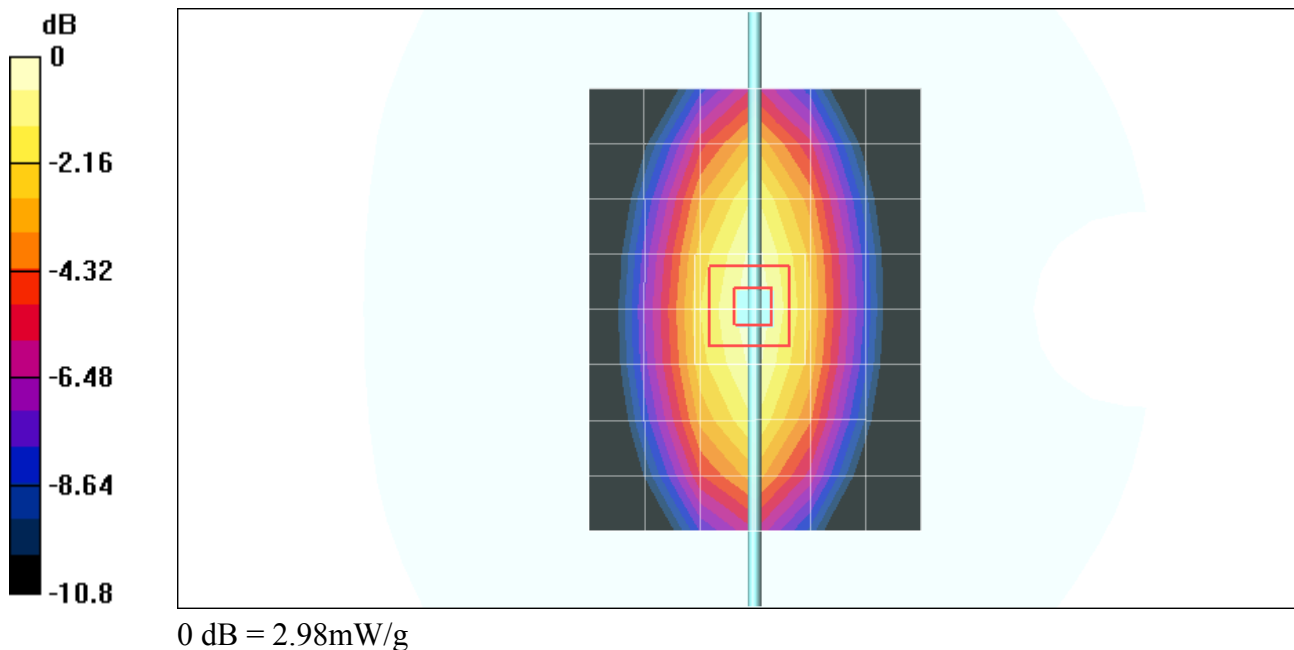
Maximum value of SAR (measured) = 2.98 mW/g

**d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 58.1 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.67 W/kg

**SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.58 mW/g**



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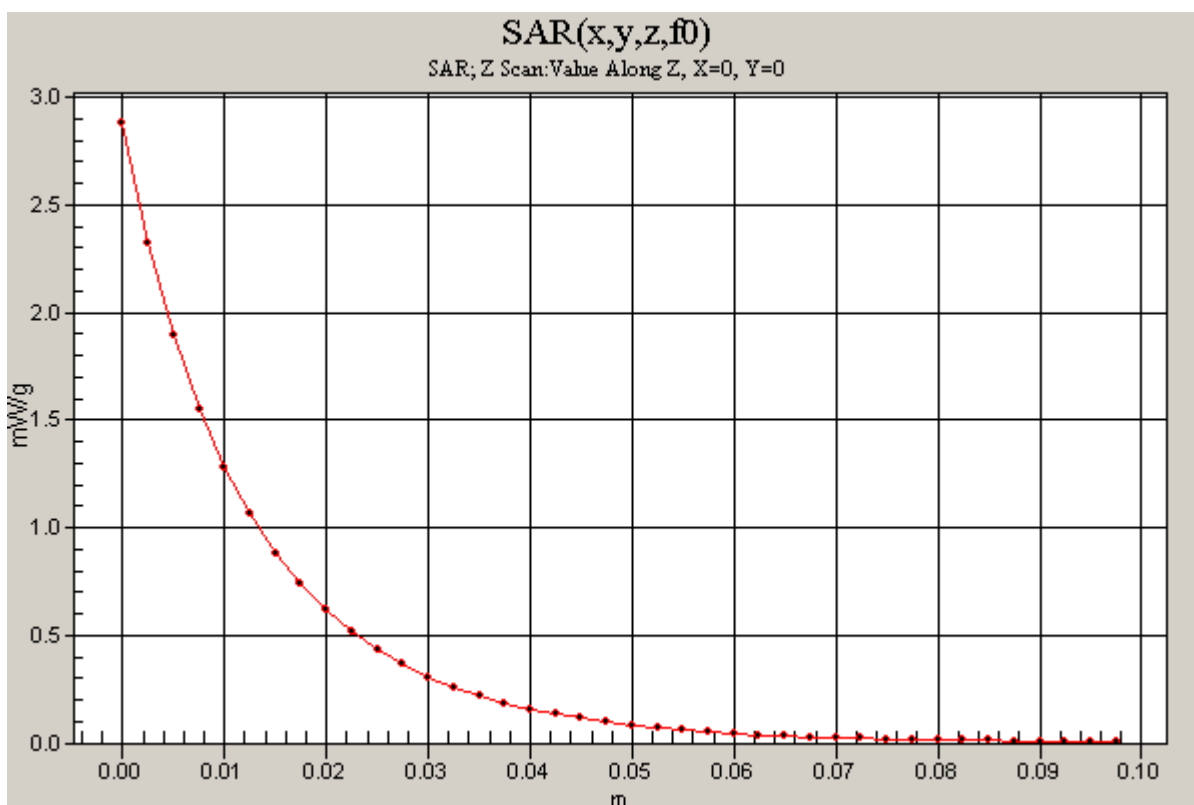
## System Performance Check @ 835 MHz

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d002**

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

**d=15mm, Pin=250mW/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 2.88 mW/g



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## System Performance Check @ 1900MHz

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d043**

Phantom section: Flat Section

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASy4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.98, 8.98, 8.98);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASy4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**d=10mm; Pin=250mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 13.7 mW/g

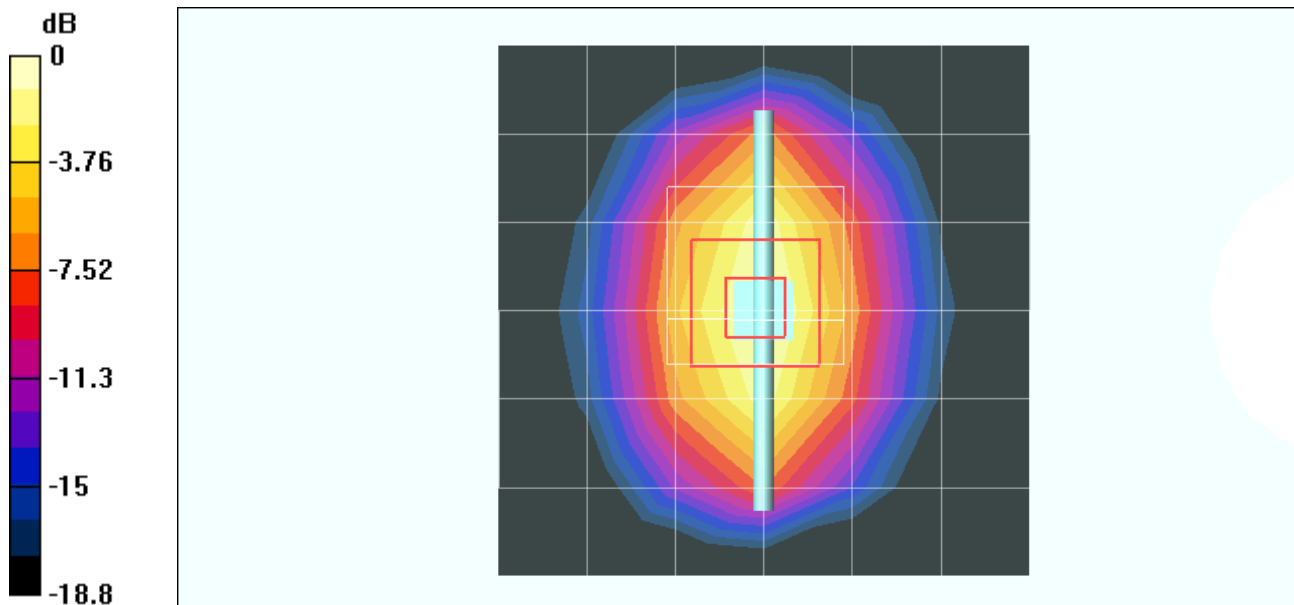
**d=10mm; Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 98 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.31 mW/g**

Maximum value of SAR (measured) = 13.8 mW/g



0 dB = 13.8mW/g

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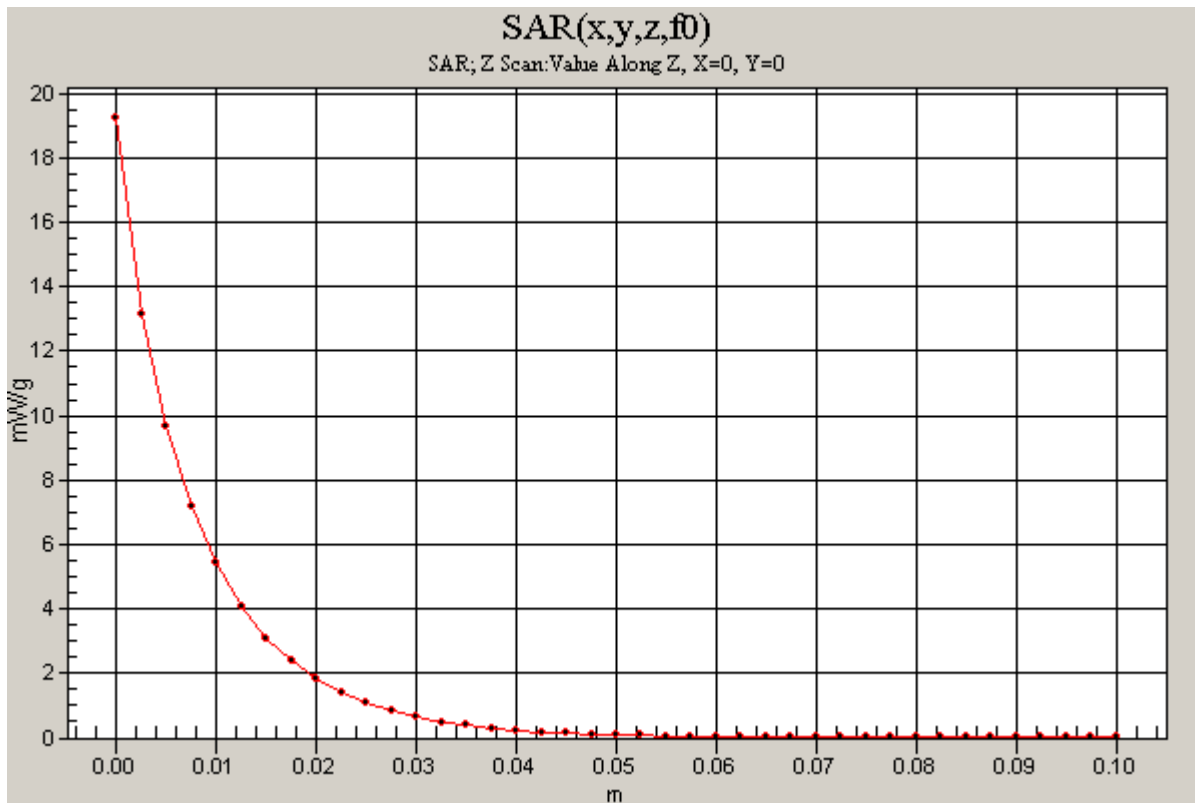
### System Performance Check @ 1900MHz

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d043**

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

**d=10mm; Pin=250mW/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 19.2 mW/g



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## System Performance Check @ 1900MHz

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d043**

Phantom section: Flat Section

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DAS4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(8.98, 8.98, 8.98);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DAS4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**d=10mm; Pin=250mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

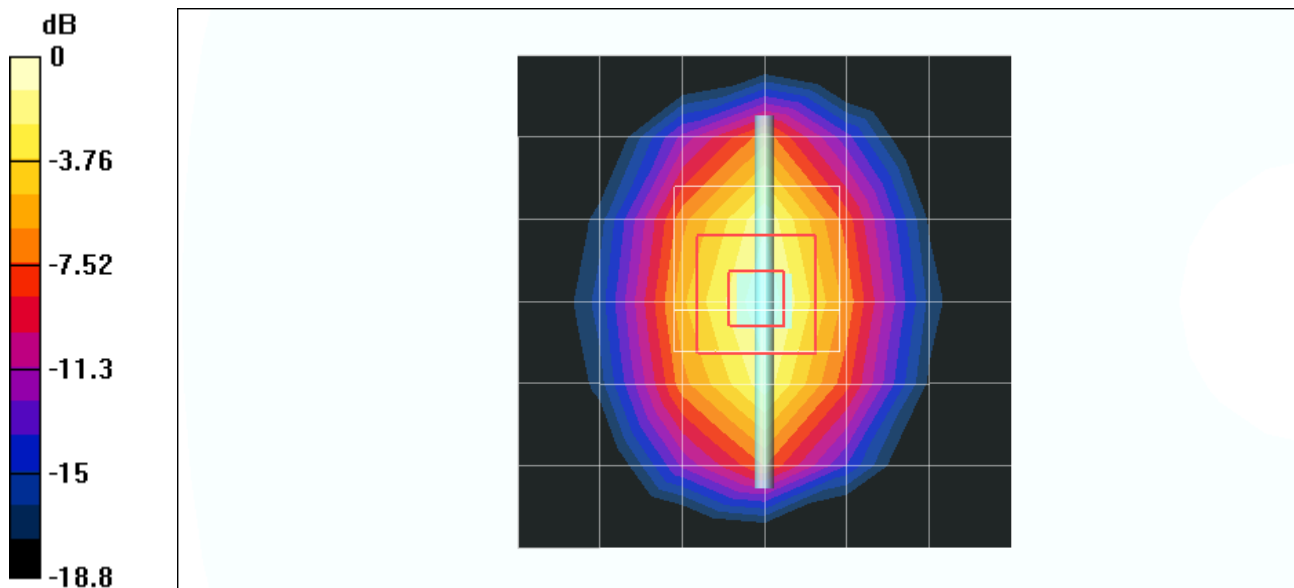
Maximum value of SAR (measured) = 13.7 mW/g

**d=10mm; Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 98 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.29 mW/g**



0 dB = 13.7mW/g

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## System Performance Check @ 1900MHz

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d043**

Phantom section: Flat Section

Measurement Standard: DASy4 (High Precision Assessment)

**d=10mm; Pin=250mW/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
Maximum value of SAR (measured) = 19.2 mW/g

