

Test Laboratory: Compliance Certification Services

## EUT Test Configuration 1\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

**Program Name: EUT Test Configuration 1\_GSM 1900**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876 \text{ mho/m}$ ,  $\epsilon_r = 53.5246$ ,  $\rho = 1000 \text{ kg/m}^3$ )

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Low\_d=25mm/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.2 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.935 mW/g

**Low\_d=25mm/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

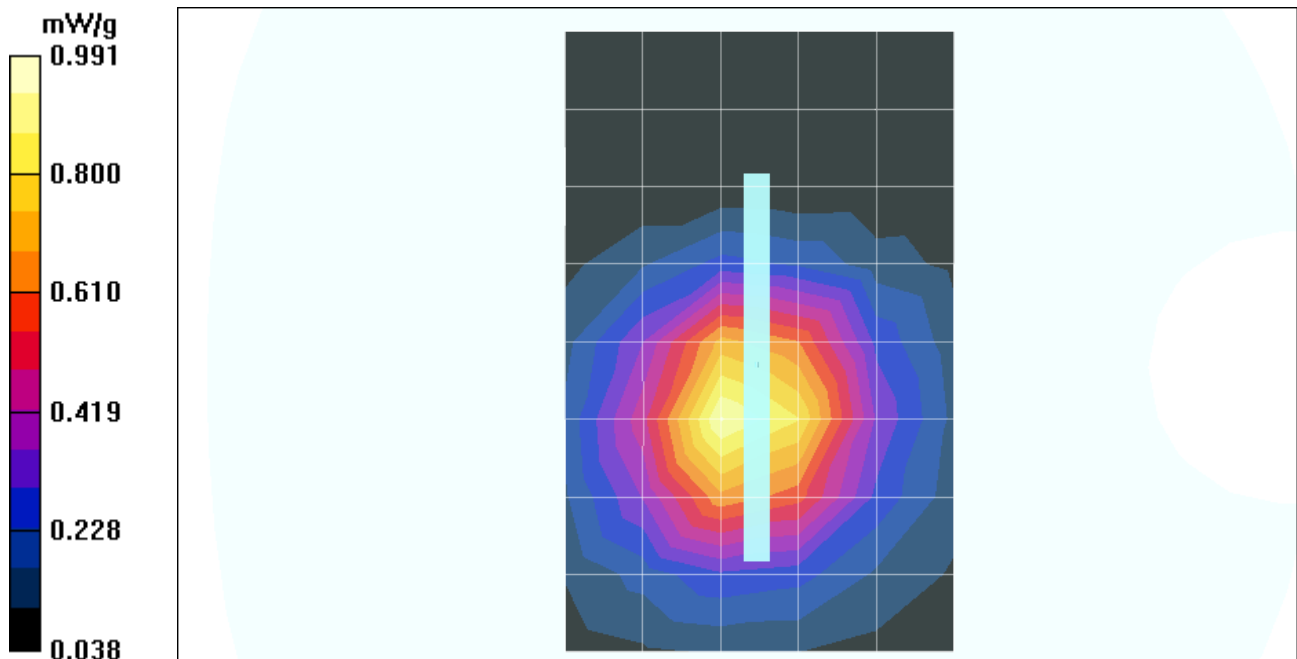
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.555 mW/g

Reference Value = 24.2 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.991 mW/g



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**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle\_d=25mm/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.1 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.917 mW/g

**Middle\_d=25mm/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

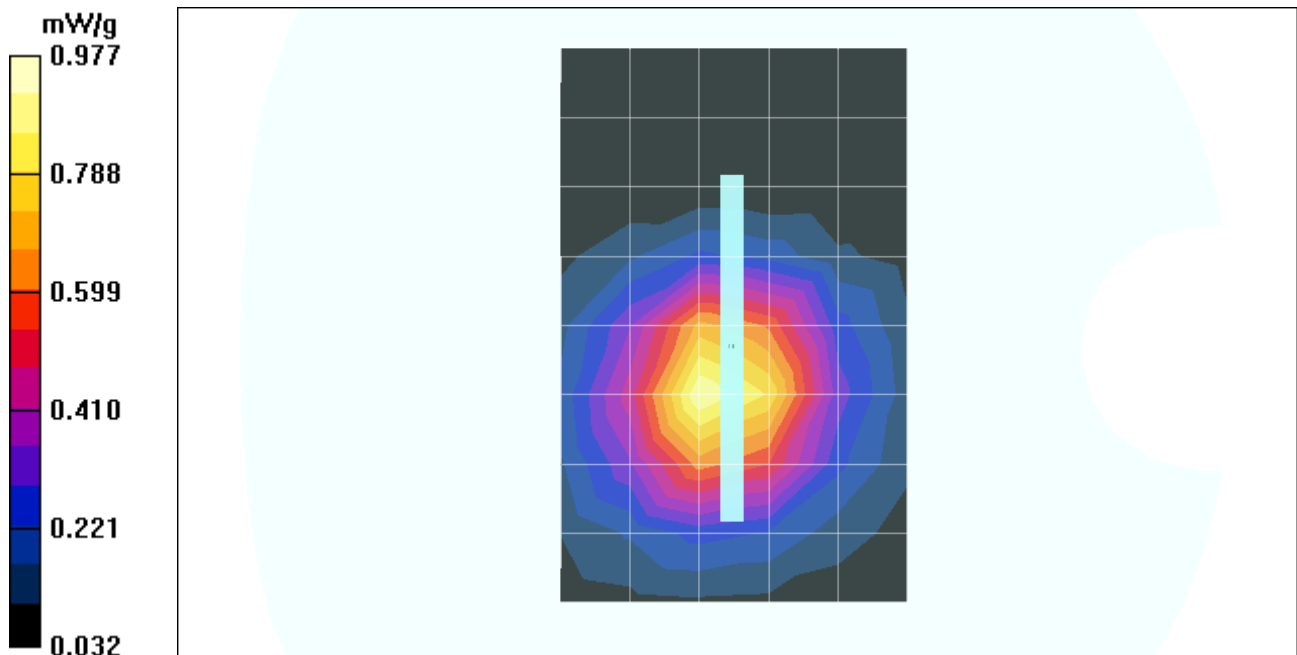
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.540 mW/g

Reference Value = 24.1 V/m

Power Drift = 0.0 dB

Maximum value of SAR = 0.977 mW/g



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## EUT Test Configuration 1\_GSM 1900

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**Program Name: EUT Test Configuration 1\_GSM 1900**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High\_d=25mm/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.4 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.940 mW/g

**High\_d=25mm/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

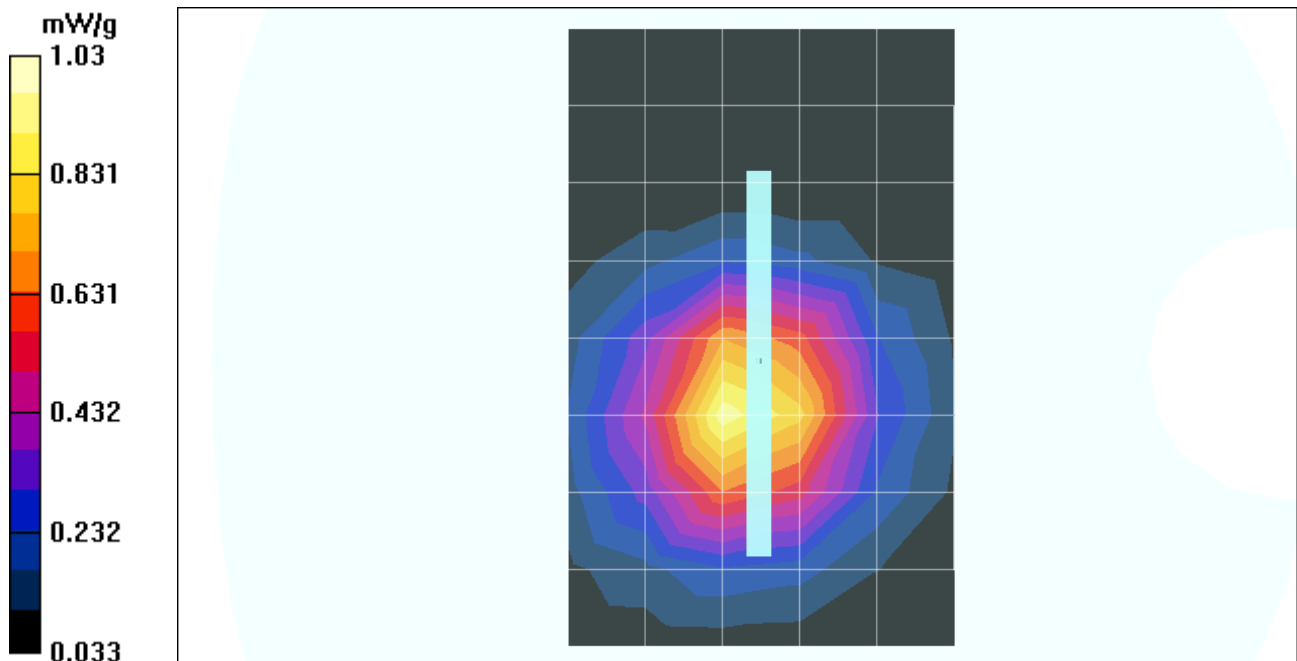
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.940 mW/g; SAR(10 g) = 0.561 mW/g

Reference Value = 24.4 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 1.03 mW/g



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## EUT Test Configuration 1\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

DASY4 Configuration:

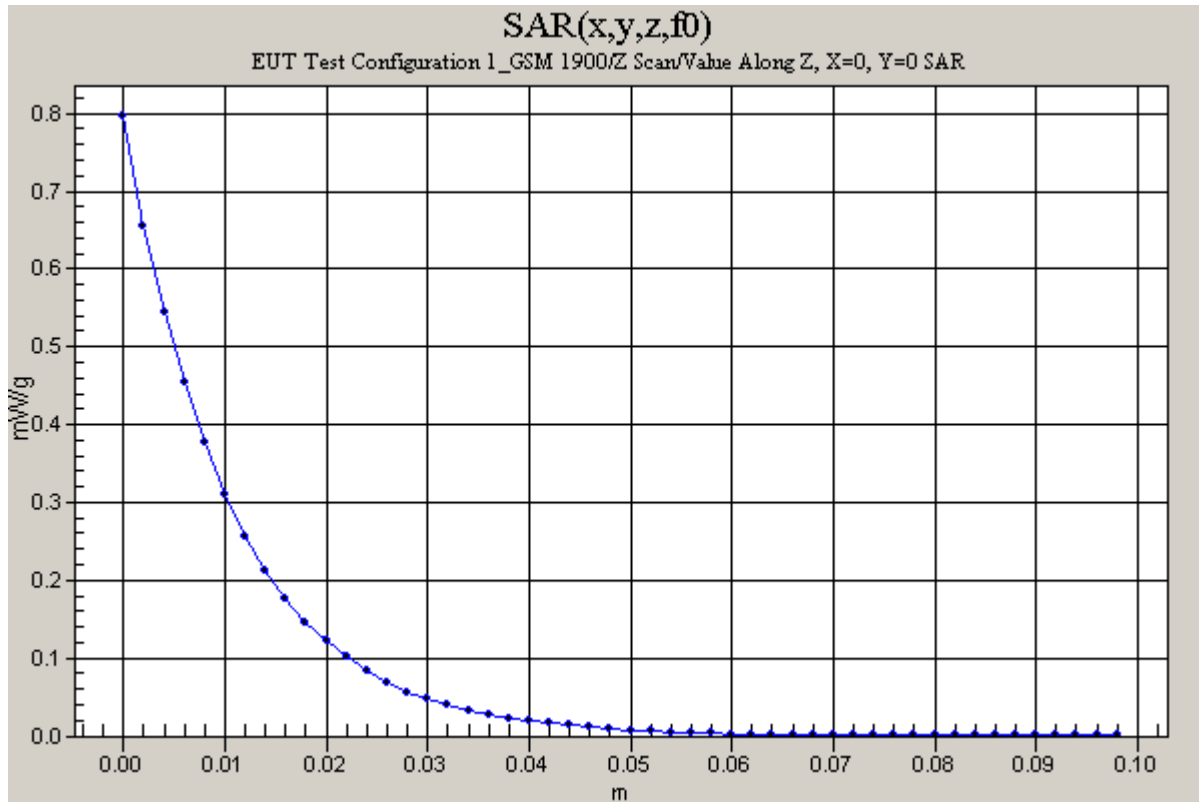
- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High\_d=25mm/Z Scan (1x1x51):** Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 24.4 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.797 mW/g



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## EUT Test Configuration 2\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

**Program Name: EUT Test Configuration 2\_GSM 1900**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Low/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 23.8 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 1.02 mW/g

**Low/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

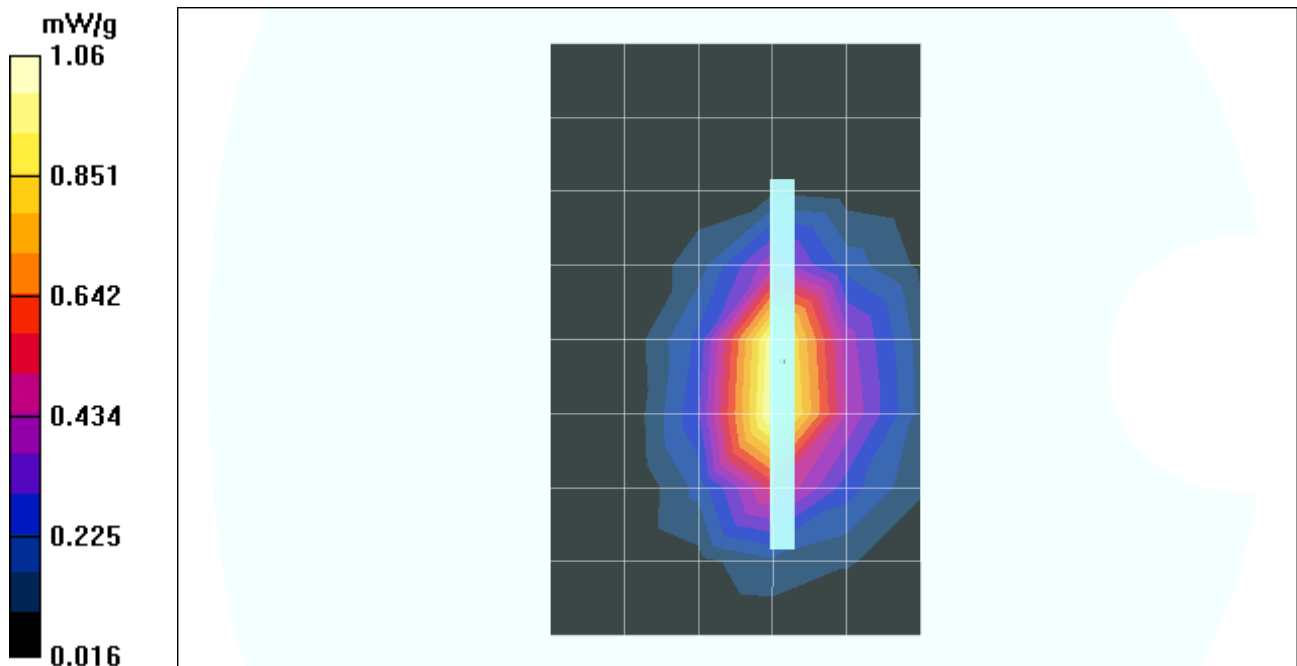
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.559 mW/g

Reference Value = 23.8 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 1.06 mW/g



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## EUT Test Configuration 2\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

**Program Name: EUT Test Configuration 2\_GSM 1900**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**Middle/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 23.2 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 1.12 mW/g

**Middle/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

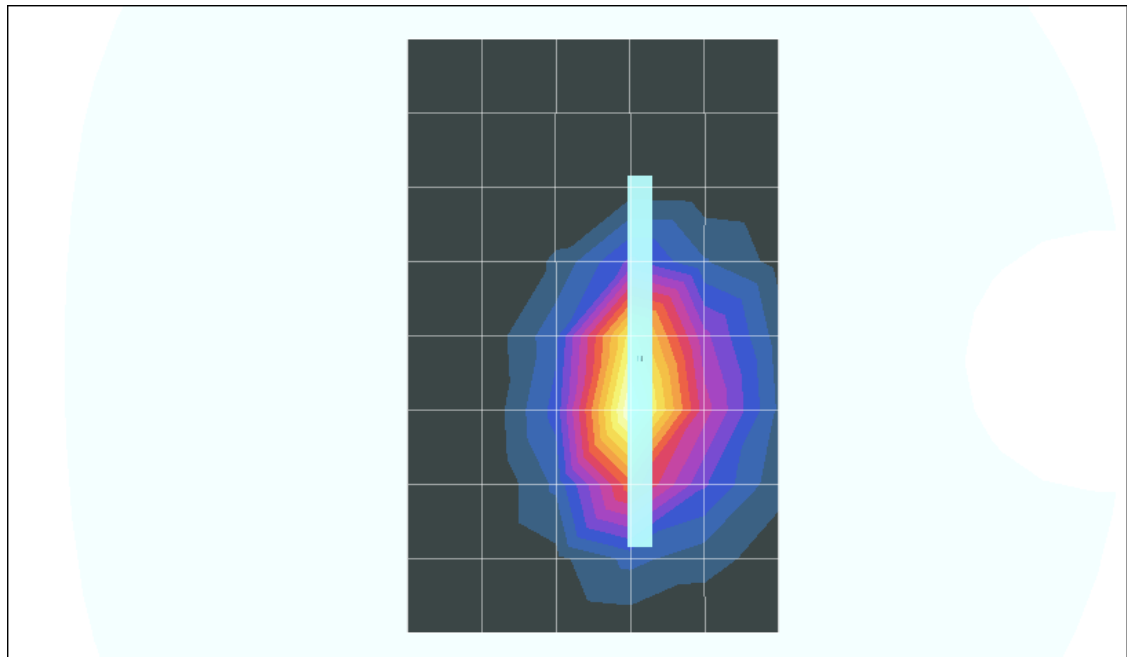
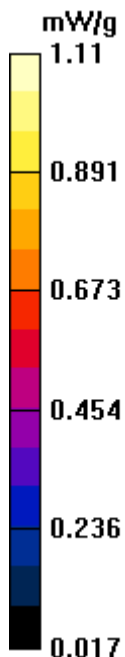
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.576 mW/g

Reference Value = 23.2 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 1.11 mW/g



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## EUT Test Configuration 2\_GSM 1900

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**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 23.9 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 1.19 mW/g

**High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

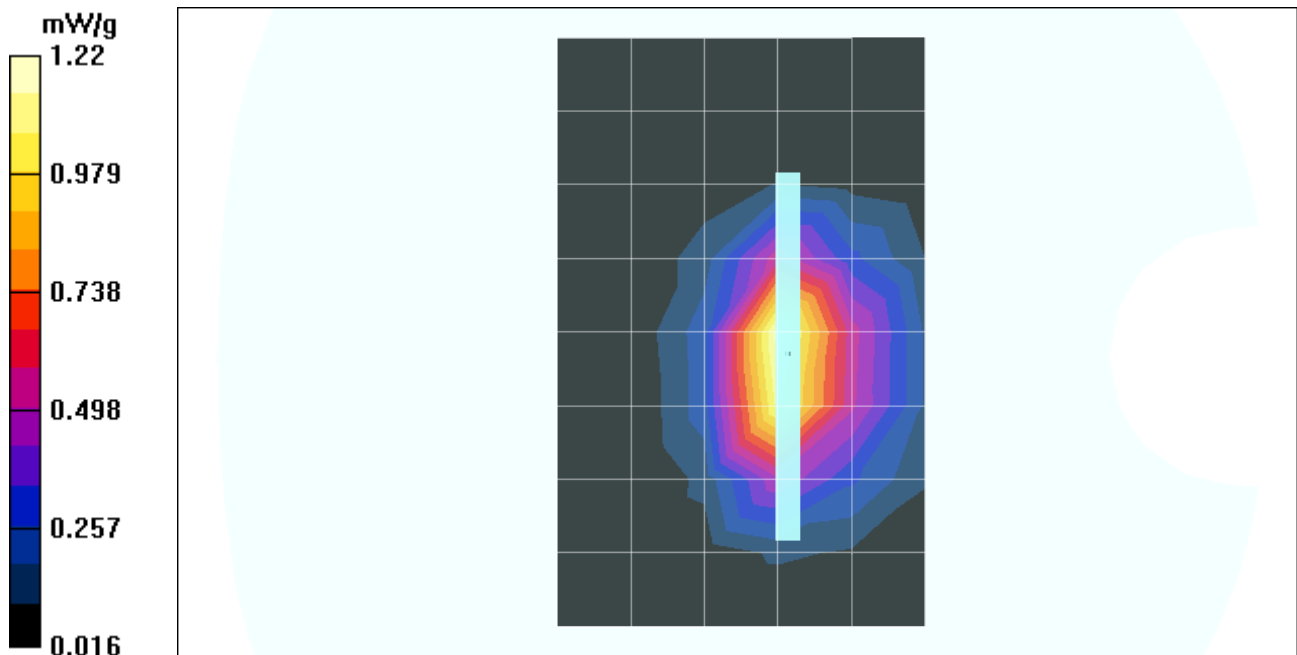
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.614 mW/g

Reference Value = 23.9 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 1.22 mW/g



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**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

DASY4 Configuration:

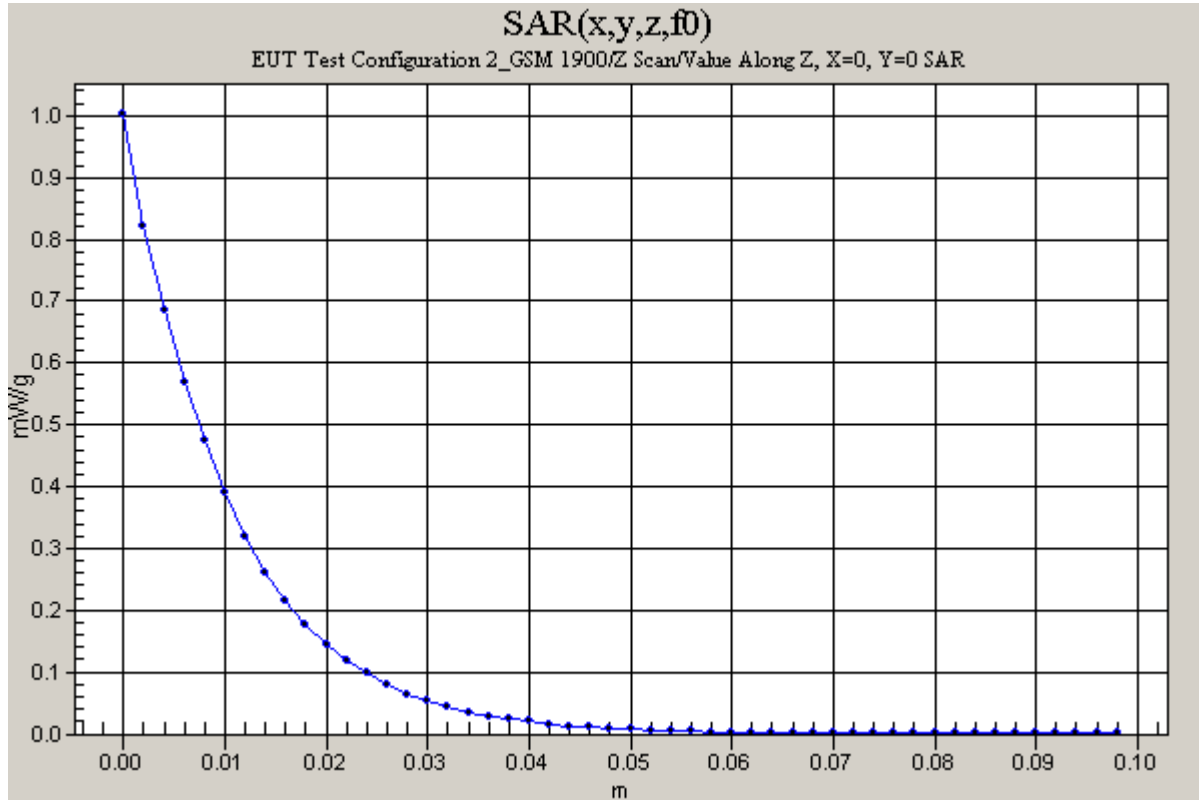
- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High/Z Scan (1x1x51):** Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 23.9 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 1 mW/g





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## EUT Test Configuration 3\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

**Program Name: EUT Test Configuration 3\_GSM 1900**

**Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: Muscle 1900 MHz ( $\sigma = 1.5876$  mho/m,  $\epsilon_r = 53.5246$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High/Area Scan (10x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.52 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 0.032 mW/g

**High/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

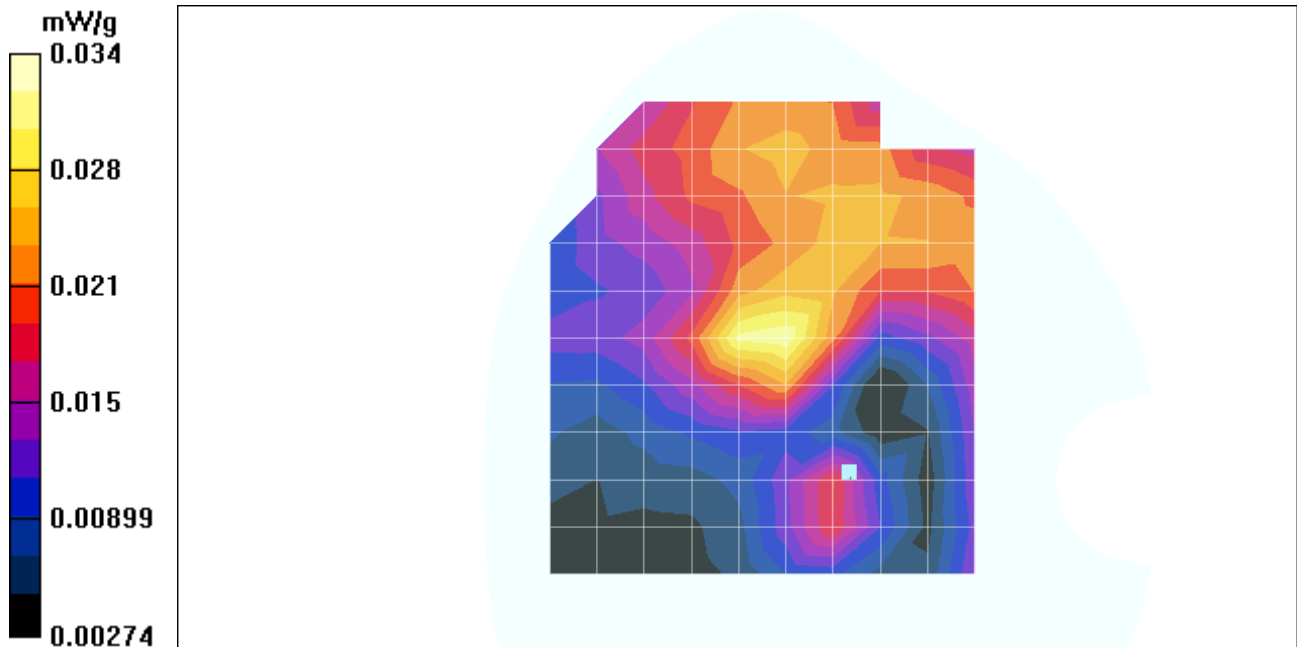
Peak SAR (extrapolated) = 0.047 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.021 mW/g

Reference Value = 3.52 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 0.034 mW/g



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## EUT Test Configuration 3\_GSM 1900

**DUT: Sierra Wireless; Type: AC 755; Serial: N/A**

DASY4 Configuration:

- Probe: ES3DV2 - SN3021; ConvF(4.8, 4.8, 4.8); Calibrated: 7/29/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

**High/Z Scan (1x1x51):** Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 3.52 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.026 mW/g

