

## APPENDIX B Plots Of The SAR Measurements

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

**Table: SAR Measurement Plot Numbers**

1. Test Position	2. Plot No.	3. Antenna Type	4. Test Freq (MHz)
Face Frontal	1	¼ Wave	896MHz
	2	¼ Wave	918.5MHz
	3	¼ Wave	941MHz
	4	½ Wave	896MHz
	5	½ Wave	918.5MHz
	6	½ Wave	941MHz
Belt Clip	7	¼ Wave	896MHz
	8	¼ Wave	918.5MHz
	9	¼ Wave	941MHz
	10	½ Wave	896MHz
	11	½ Wave	918.5MHz
	12	½ Wave	941MHz
Leather Pouch	13	¼ Wave	918.5MHz
	14	½ Wave	918.5MHz
Nylon Pouch	15	¼ Wave	918.5MHz
	16	½ Wave	918.5MHz
Belt Clip No-key Variant	17	¼ Wave	896MHz
Belt Clip 4-key Variant	18	¼ Wave	896MHz

**Table: Validation Plot Numbers**

Date	Plot Number	Frequency
6 <sup>th</sup> January 2009	19	900 MHz
8 <sup>th</sup> January 2009	20	900 MHz
18 <sup>th</sup> January 2009	21	900 MHz



Test Date: 08 January 2009

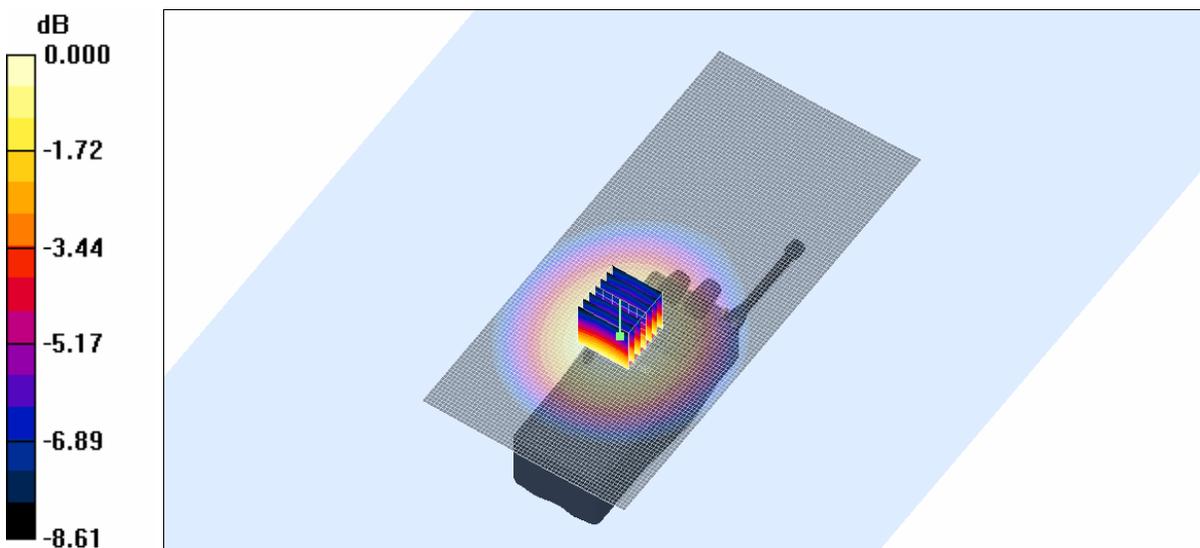
File Name: 920 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 896 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 896 \text{ MHz}$ ;  $\sigma = 0.963 \text{ mho/m}$ ;  $\epsilon_r = 41.8$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 2.66 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 17.7 V/m; Power Drift = -0.073 dB  
 Peak SAR (extrapolated) = 3.30 W/kg  
**SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.79 mW/g**  
 Maximum value of SAR (measured) = 2.60 mW/g



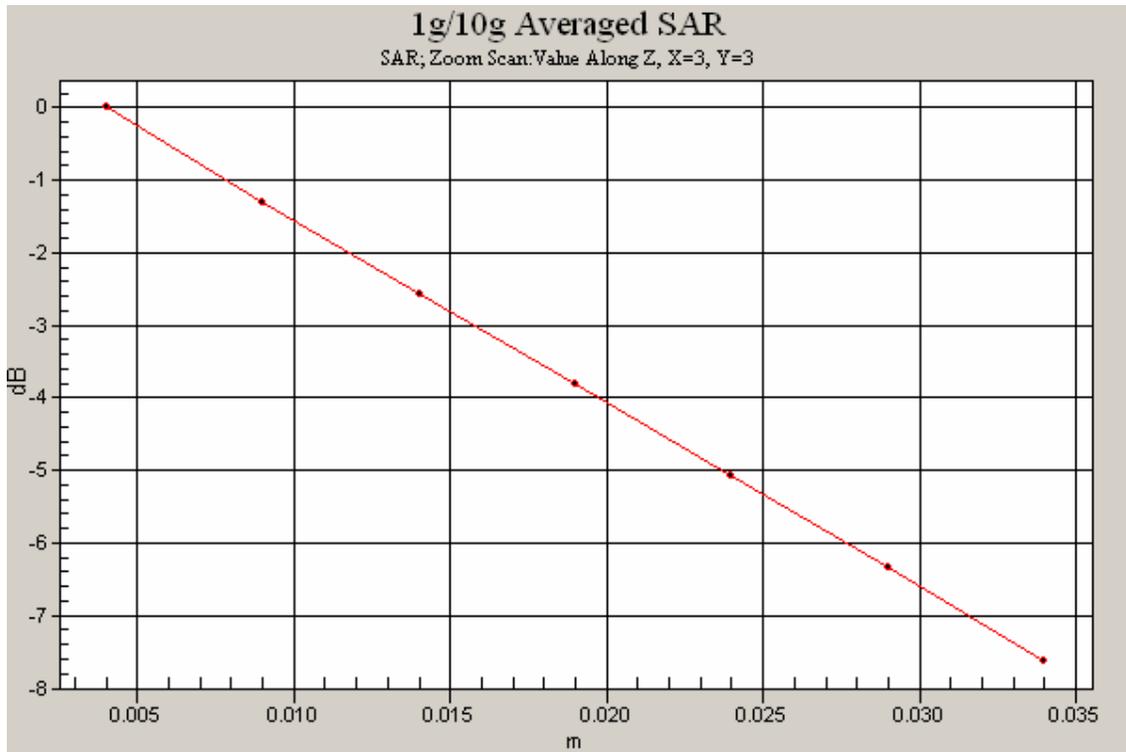
0 dB = 2.60mW/g

**SAR MEASUREMENT PLOT 1**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.7 Degrees Celsius  
 19.5 Degrees Celsius  
 58.0 %





Test Date: 08 January 2009

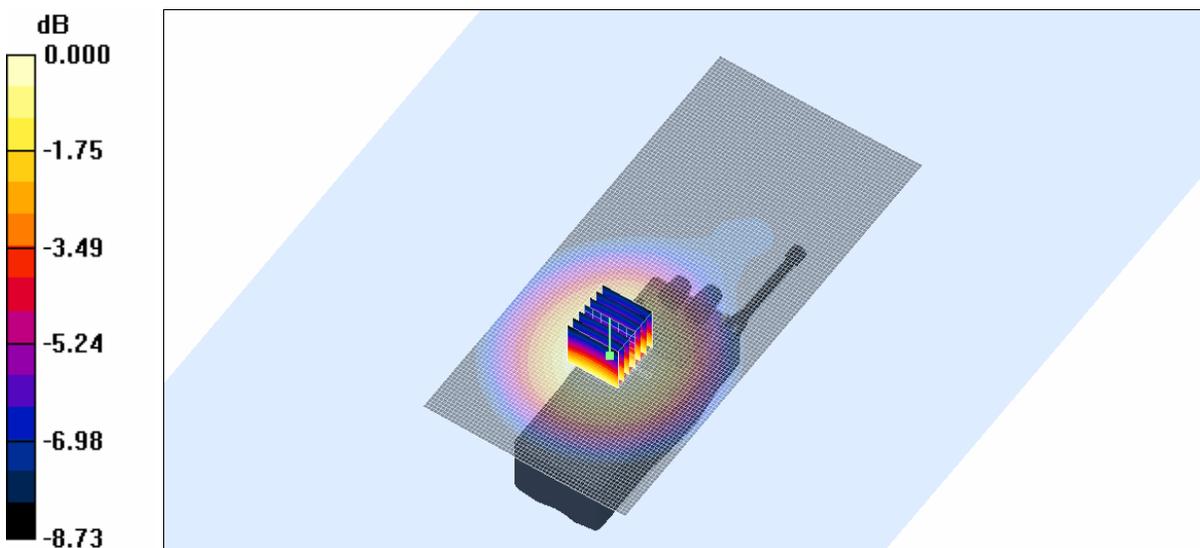
File Name: 920 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 4.19 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 26.2 V/m; Power Drift = -0.082 dB  
Peak SAR (extrapolated) = 5.23 W/kg  
**SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2.84 mW/g**  
Maximum value of SAR (measured) = 4.11 mW/g

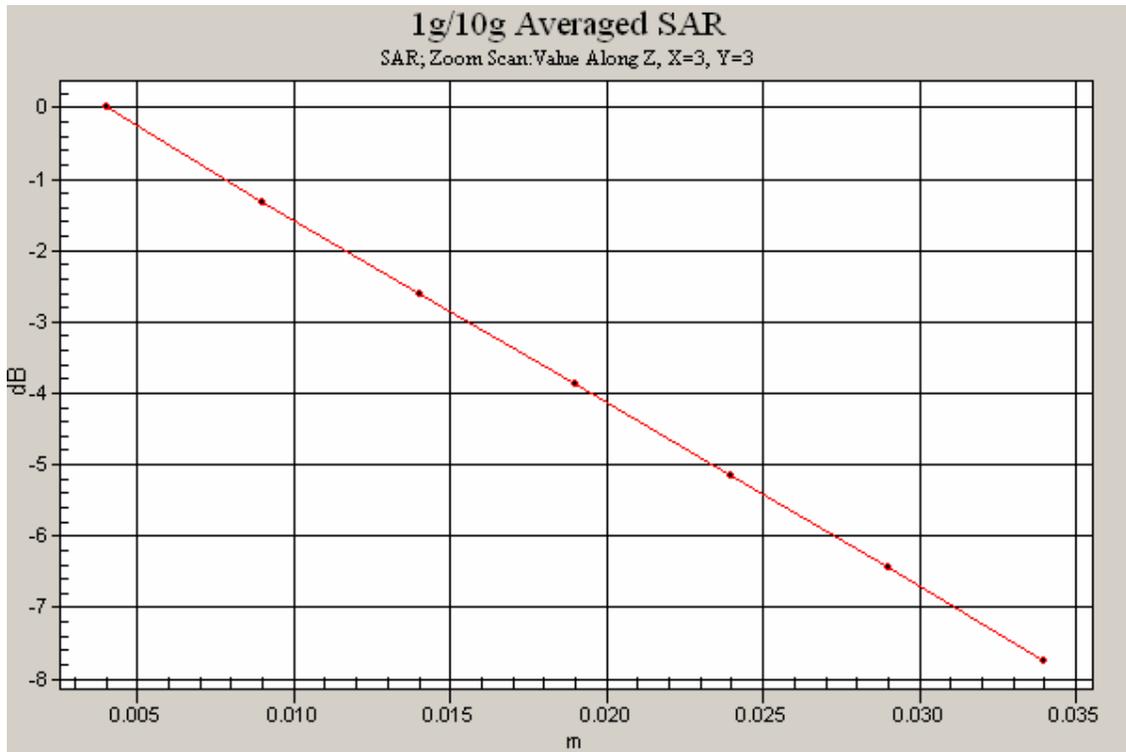


**SAR MEASUREMENT PLOT 2**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %





Test Date: 08 January 2009

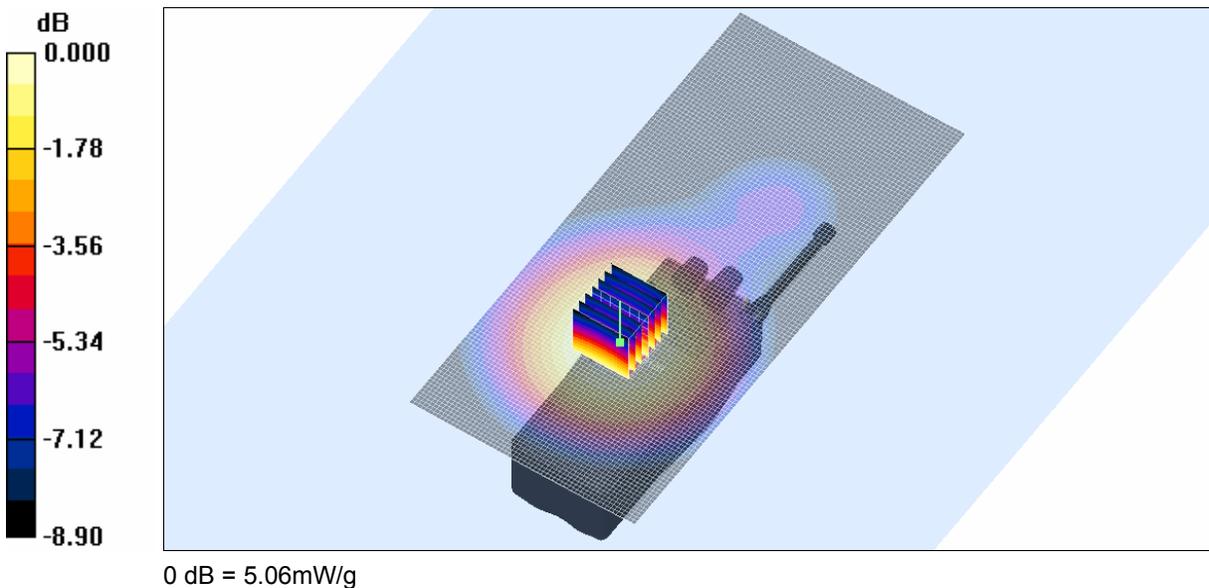
File Name: 920 MHz Face Frontal 0.25 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 941 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 940$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 5.25 mW/g

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 35.4 V/m; Power Drift = -0.385 dB  
Peak SAR (extrapolated) = 6.45 W/kg  
**SAR(1 g) = 4.79 mW/g; SAR(10 g) = 3.46 mW/g**  
Maximum value of SAR (measured) = 5.06 mW/g



**SAR MEASUREMENT PLOT 3**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %





Test Date: 08 January 2009

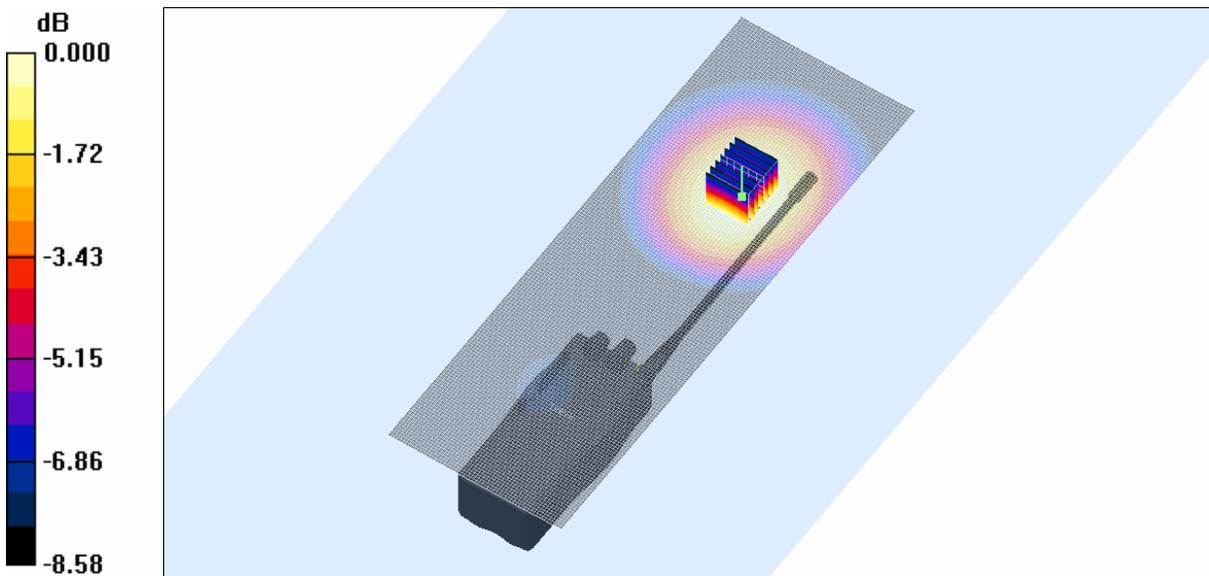
File Name: 920 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 896 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 896$  MHz;  $\sigma = 0.963$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 1.72 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 37.4 V/m; Power Drift = -0.039 dB  
 Peak SAR (extrapolated) = 2.18 W/kg  
**SAR(1 g) = 1.63 mW/g; SAR(10 g) = 1.18 mW/g**  
 Maximum value of SAR (measured) = 1.72 mW/g



0 dB = 1.72mW/g

**SAR MEASUREMENT PLOT 4**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.7 Degrees Celsius  
 19.5 Degrees Celsius  
 58.0 %





Test Date: 08 January 2009

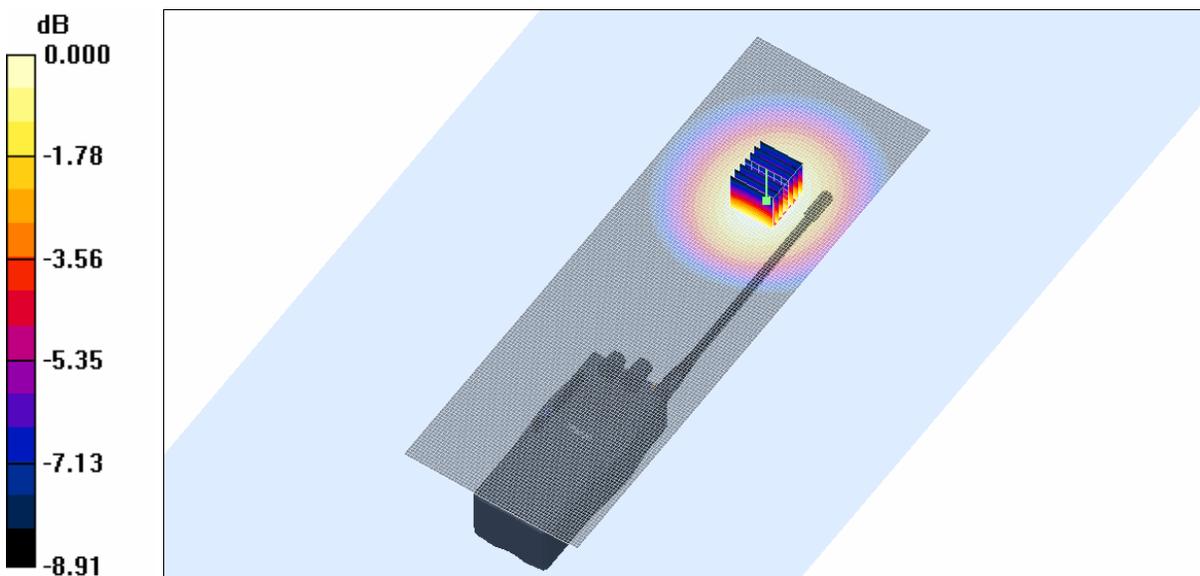
File Name: 920 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920$  MHz;  $\sigma = 0.985$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 3.70 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 46.0 V/m; Power Drift = -0.443 dB  
 Peak SAR (extrapolated) = 4.51 W/kg  
**SAR(1 g) = 3.32 mW/g; SAR(10 g) = 2.39 mW/g**  
 Maximum value of SAR (measured) = 3.51 mW/g



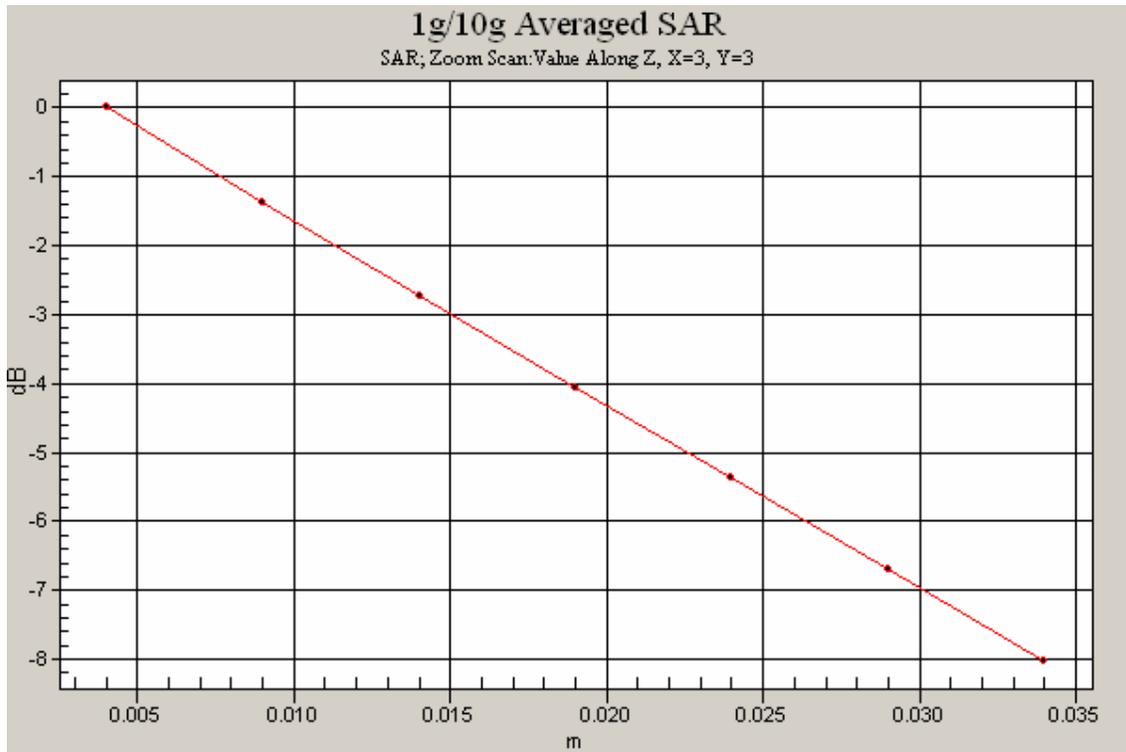
0 dB = 3.51mW/g

**SAR MEASUREMENT PLOT 5**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.7 Degrees Celsius  
 19.5 Degrees Celsius  
 58.0 %





Test Date: 08 January 2009

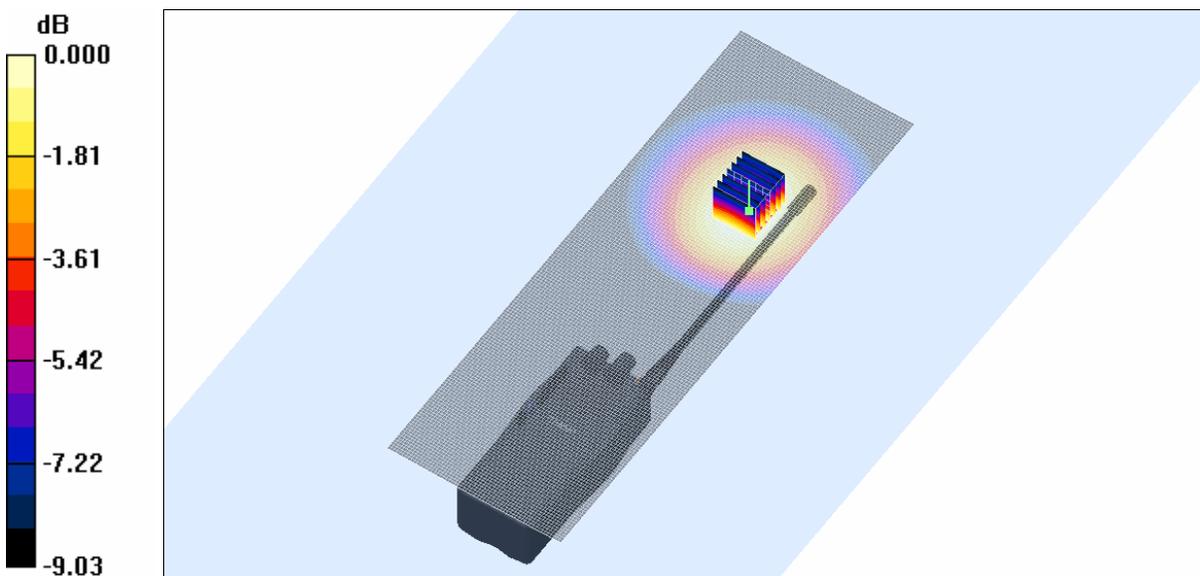
File Name: 920 MHz Face Frontal 0.5 Wave Antenna (DAE359 Probe 3563) 08-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 941 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 940$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 3.35 mW/g

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 51.0 V/m; Power Drift = -0.458 dB  
Peak SAR (extrapolated) = 4.11 W/kg  
**SAR(1 g) = 3.02 mW/g; SAR(10 g) = 2.16 mW/g**  
Maximum value of SAR (measured) = 3.20 mW/g

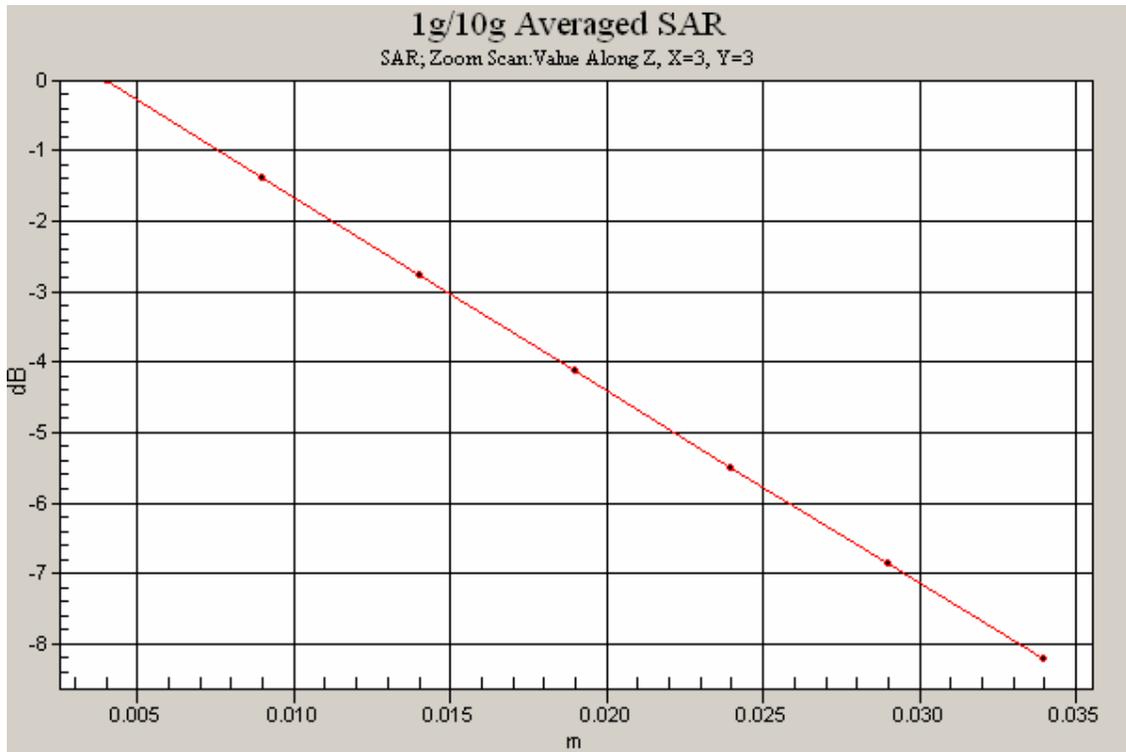


**SAR MEASUREMENT PLOT 6**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %





Test Date: 06 January 2009

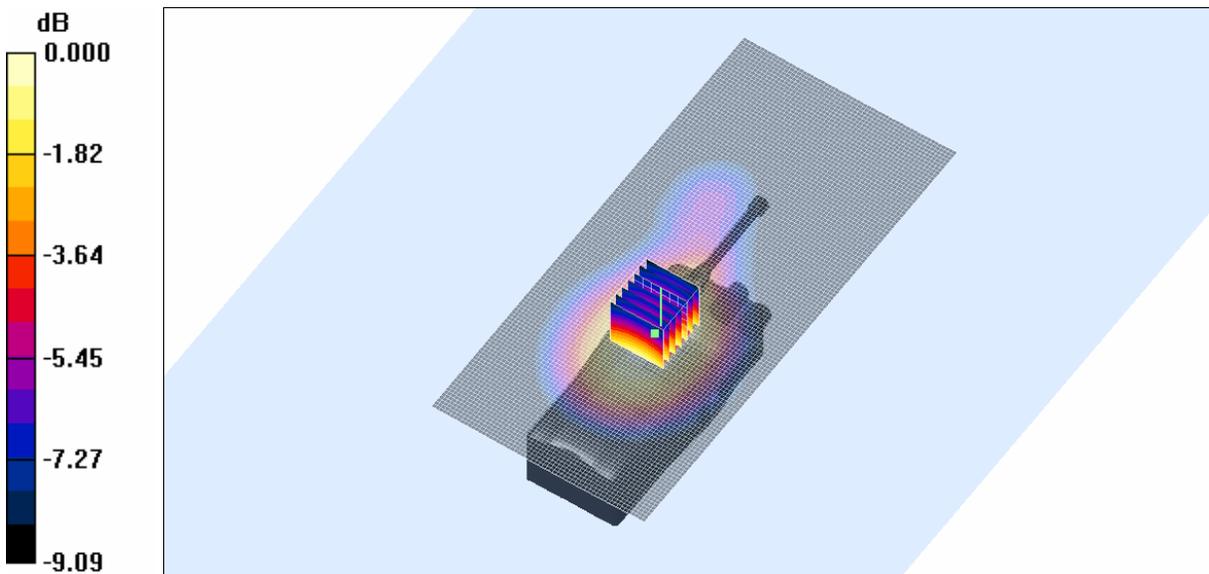
File Name: 920 MHz Belt Clip 0.25 Wave Antenna (DAE359 Probe 3563) 06-01-09b.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 896 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 896$  MHz;  $\sigma = 1.04$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 7.24 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 40.3 V/m; Power Drift = -0.255 dB  
Peak SAR (extrapolated) = 8.72 W/kg  
**SAR(1 g) = 6.52 mW/g; SAR(10 g) = 4.71 mW/g**  
Maximum value of SAR (measured) = 6.88 mW/g

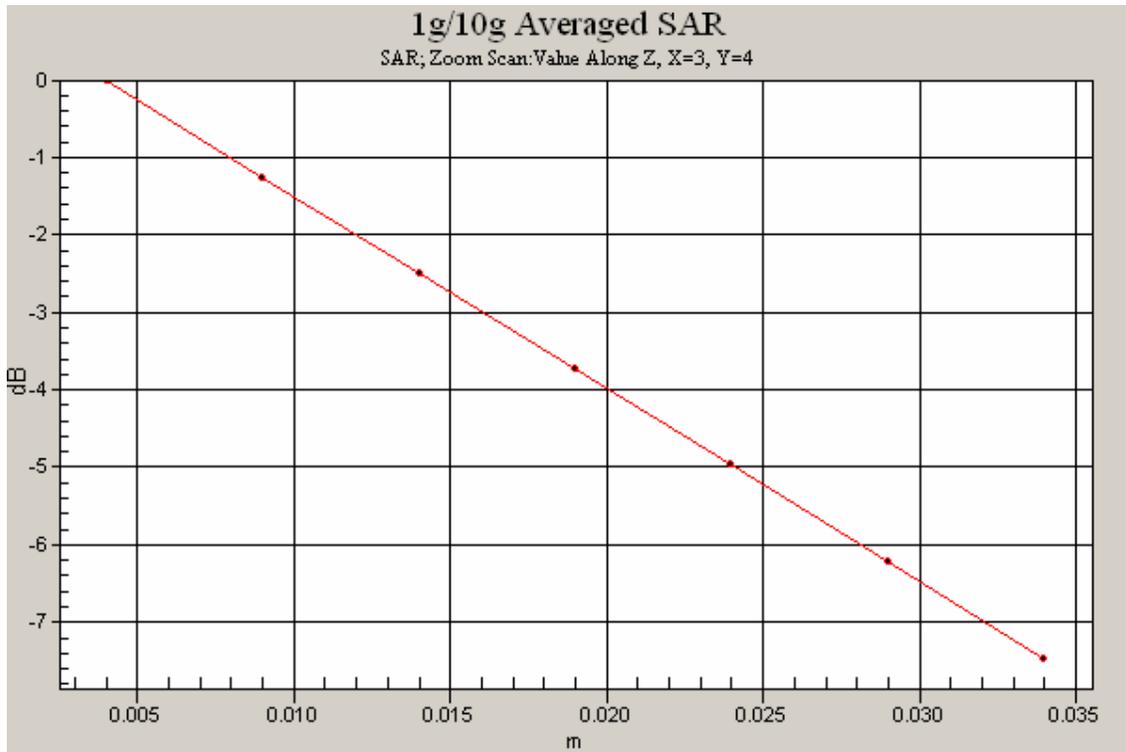


**SAR MEASUREMENT PLOT 7**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 6 January 2009

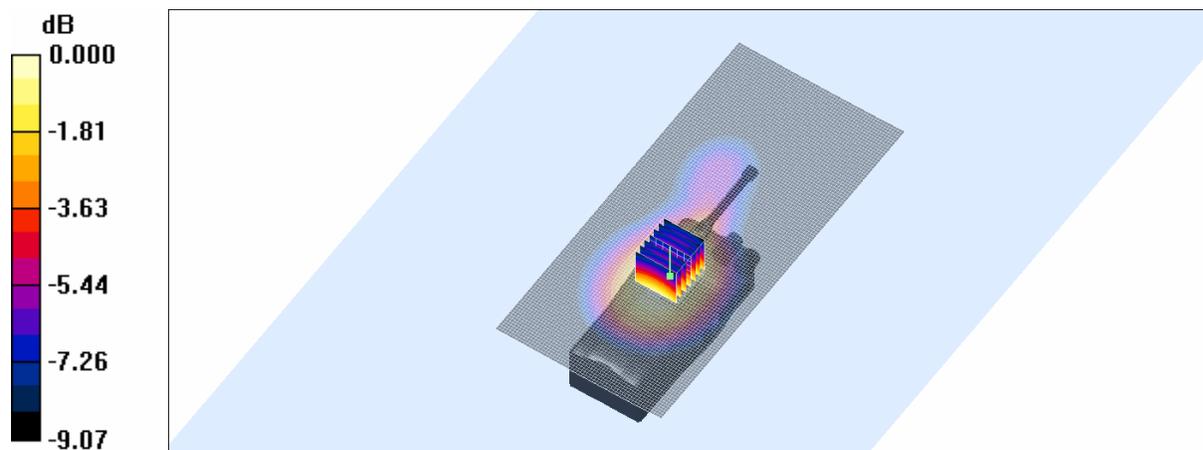
File Name: 920 MHz Belt Clip 0.25 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920 \text{ MHz}$ ;  $\sigma = 1.07 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 10.1 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 49.0 V/m; Power Drift = -0.134 dB  
 Peak SAR (extrapolated) = 12.4 W/kg  
**SAR(1 g) = 9.22 mW/g; SAR(10 g) = 6.63 mW/g**  
 Maximum value of SAR (measured) = 9.76 mW/g



0 dB = 9.76mW/g

**SAR MEASUREMENT PLOT 8**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.5 Degrees Celsius  
 19.3 Degrees Celsius  
 63.0 %





Test Date: 06 January 2009

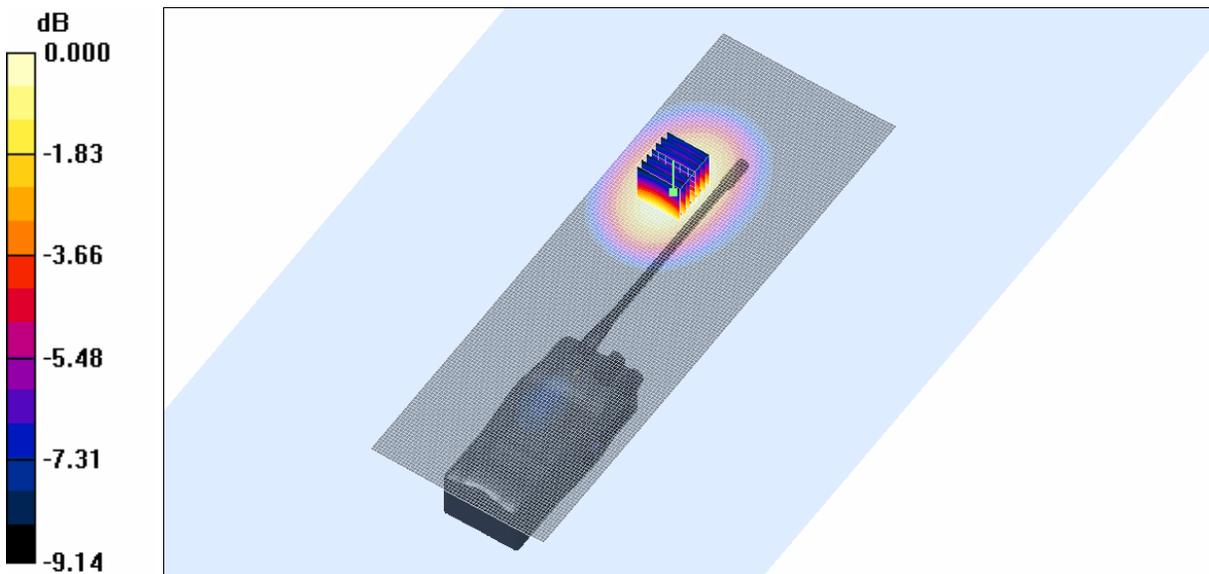
File Name: 920 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 896 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 896$  MHz;  $\sigma = 1.04$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 1 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 5.42 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 65.8 V/m; Power Drift = -0.103 dB  
Peak SAR (extrapolated) = 6.91 W/kg  
**SAR(1 g) = 5.05 mW/g; SAR(10 g) = 3.58 mW/g**  
Maximum value of SAR (measured) = 5.37 mW/g

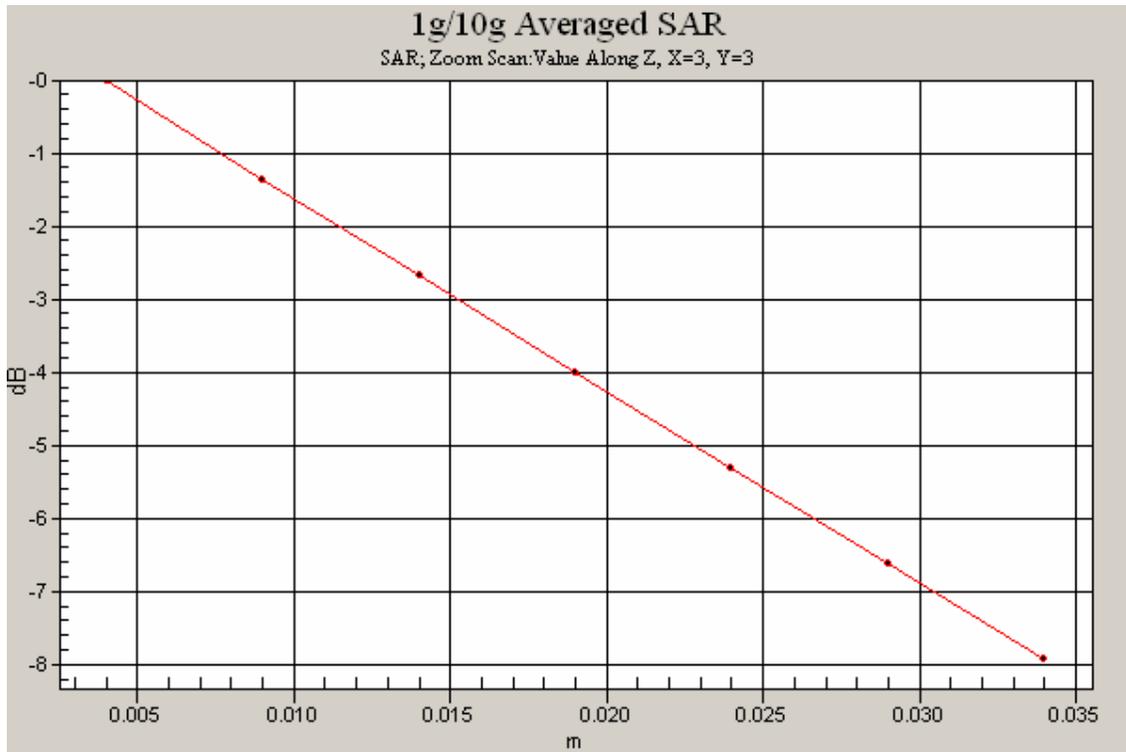


**SAR MEASUREMENT PLOT 10**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 06 January 2009

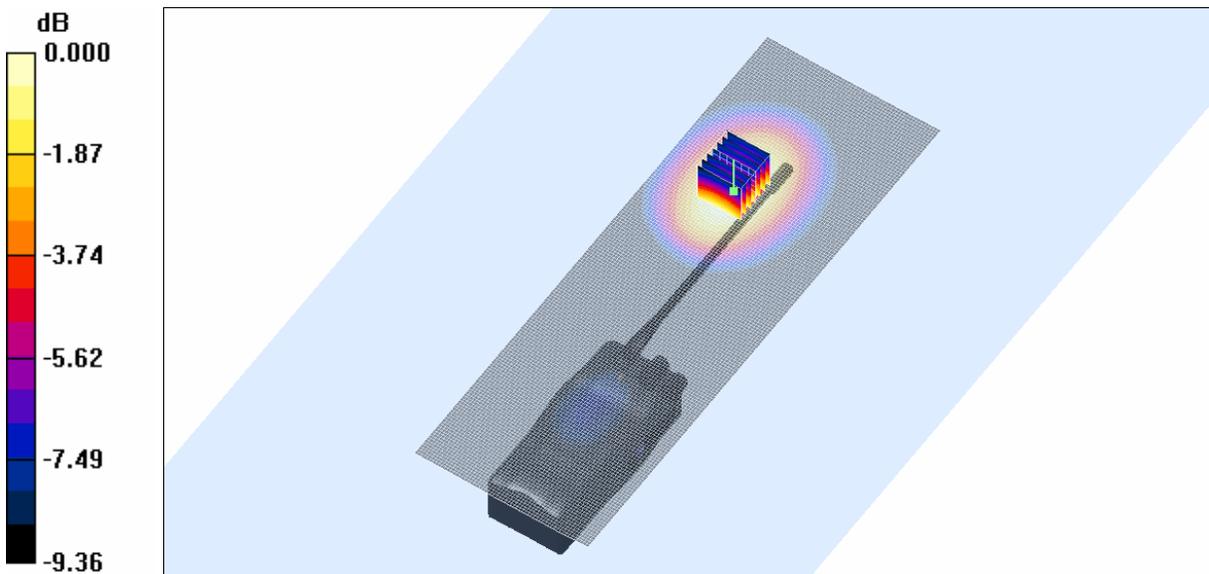
File Name: 920 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920$  MHz;  $\sigma = 1.07$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 7.37 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 70.2 V/m; Power Drift = 0.019 dB  
Peak SAR (extrapolated) = 9.05 W/kg  
**SAR(1 g) = 6.6 mW/g; SAR(10 g) = 4.67 mW/g**  
Maximum value of SAR (measured) = 7.02 mW/g

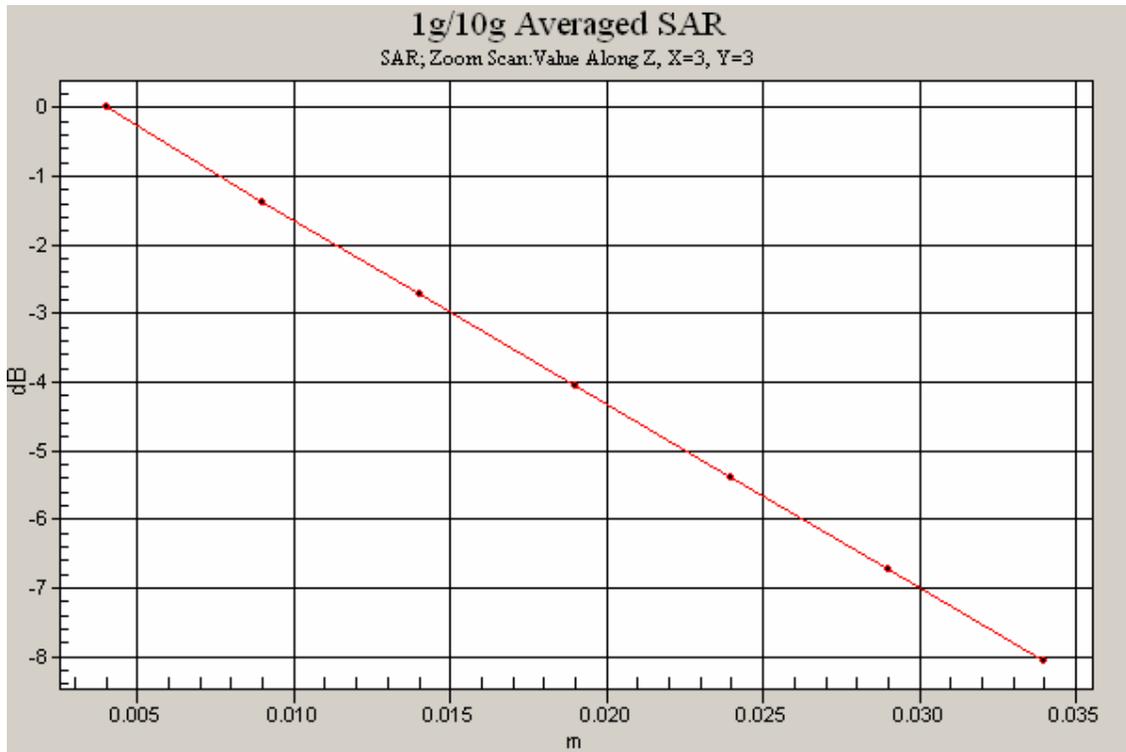


**SAR MEASUREMENT PLOT 11**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 06 January 2009

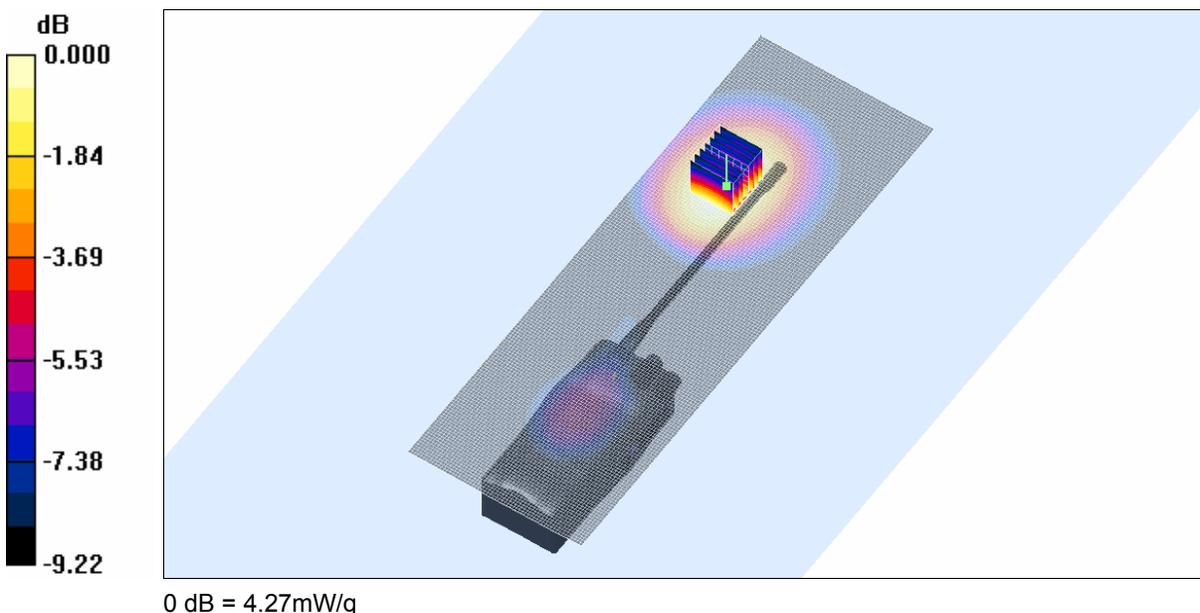
File Name: 920 MHz Belt Clip 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 941 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 940$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 4.33 mW/g

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 52.7 V/m; Power Drift = -0.336 dB  
Peak SAR (extrapolated) = 5.51 W/kg  
**SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.85 mW/g**  
Maximum value of SAR (measured) = 4.27 mW/g

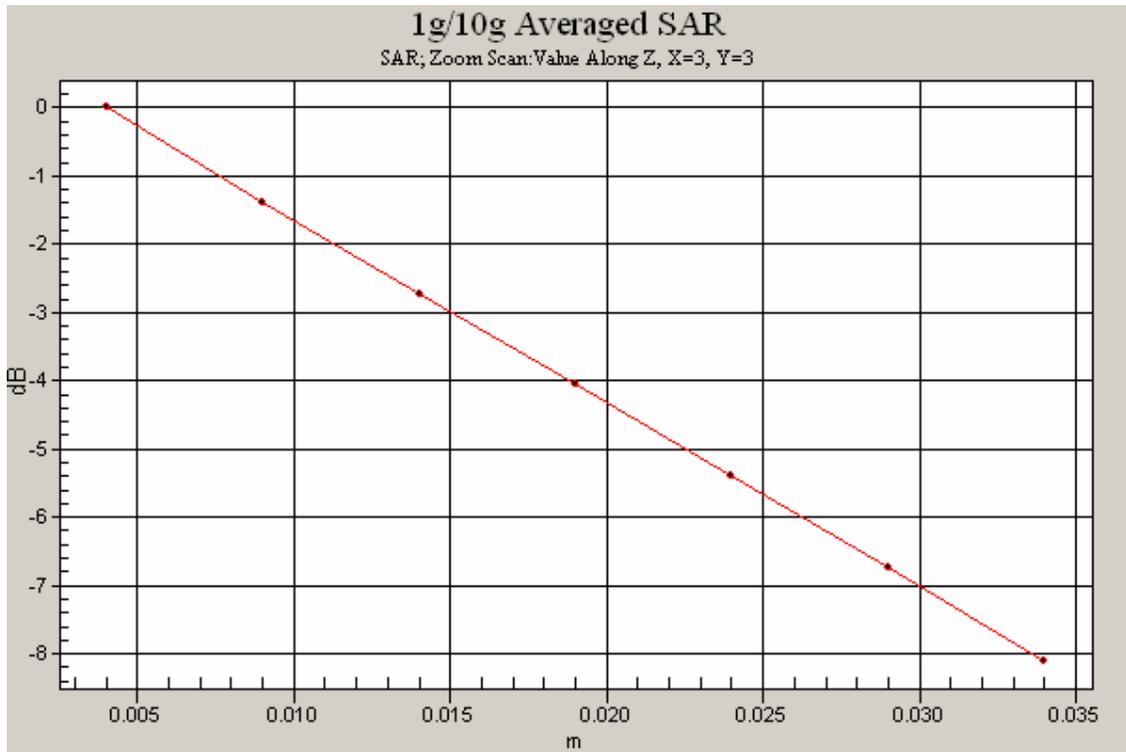


**SAR MEASUREMENT PLOT 12**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 06 January 2009

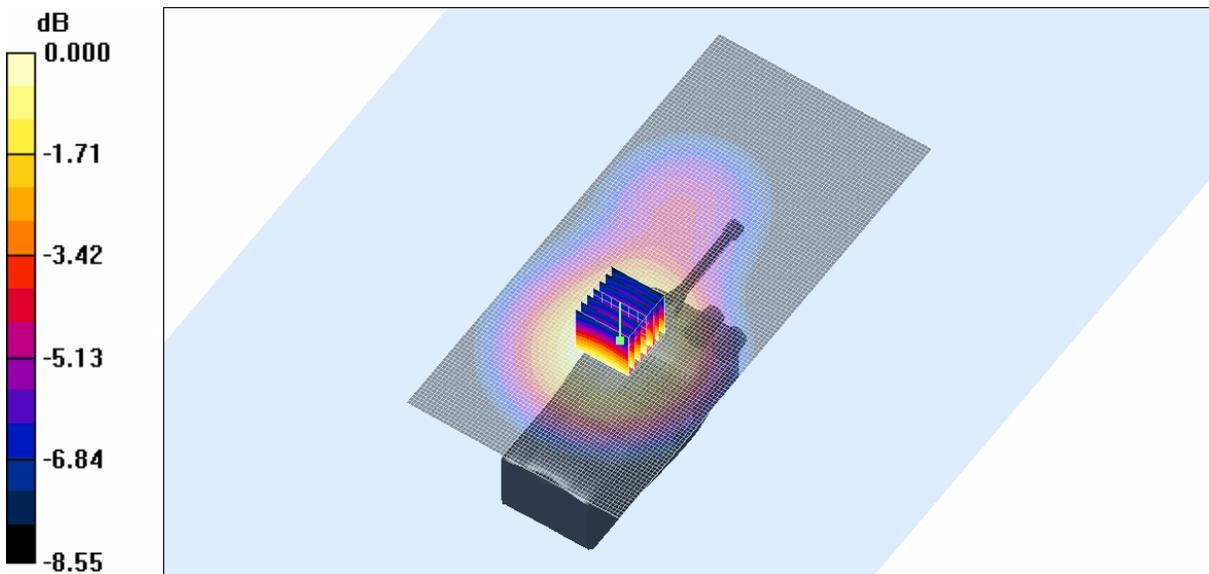
File Name: 920 MHz Leather Pouch 0.25 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920$  MHz;  $\sigma = 1.07$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 3.48 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 32.9 V/m; Power Drift = -0.413 dB  
Peak SAR (extrapolated) = 4.20 W/kg  
**SAR(1 g) = 3.19 mW/g; SAR(10 g) = 2.36 mW/g**  
Maximum value of SAR (measured) = 3.36 mW/g

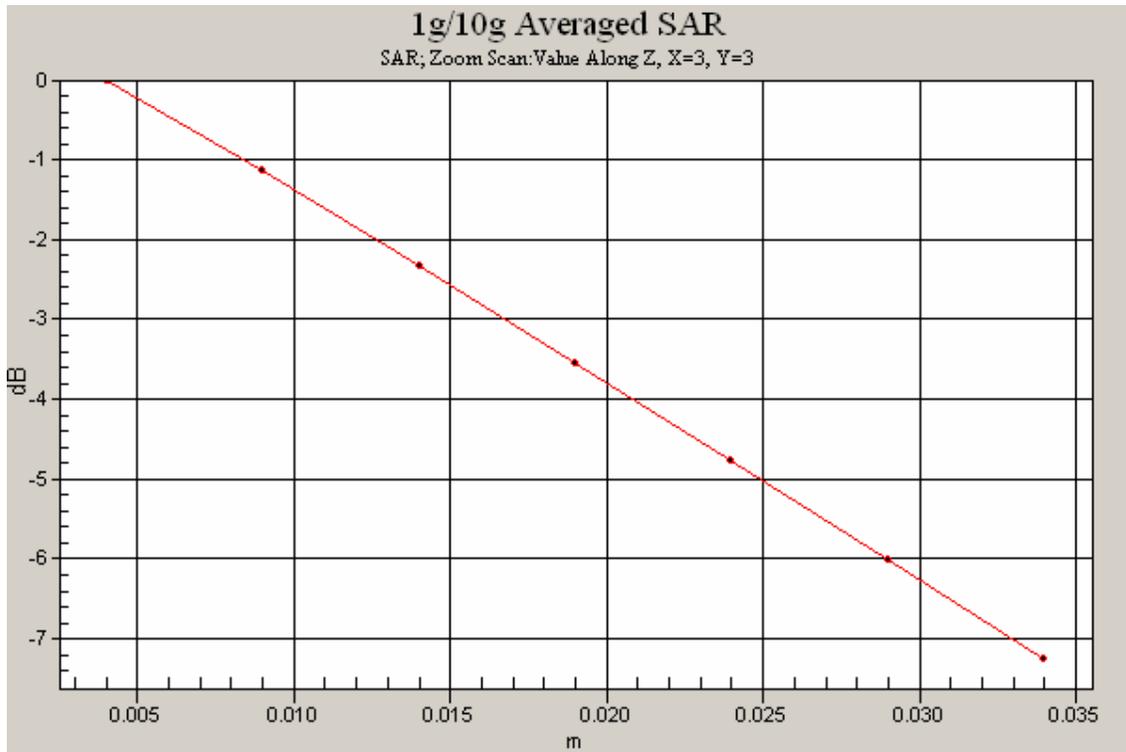


**SAR MEASUREMENT PLOT 13**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 06 January 2009

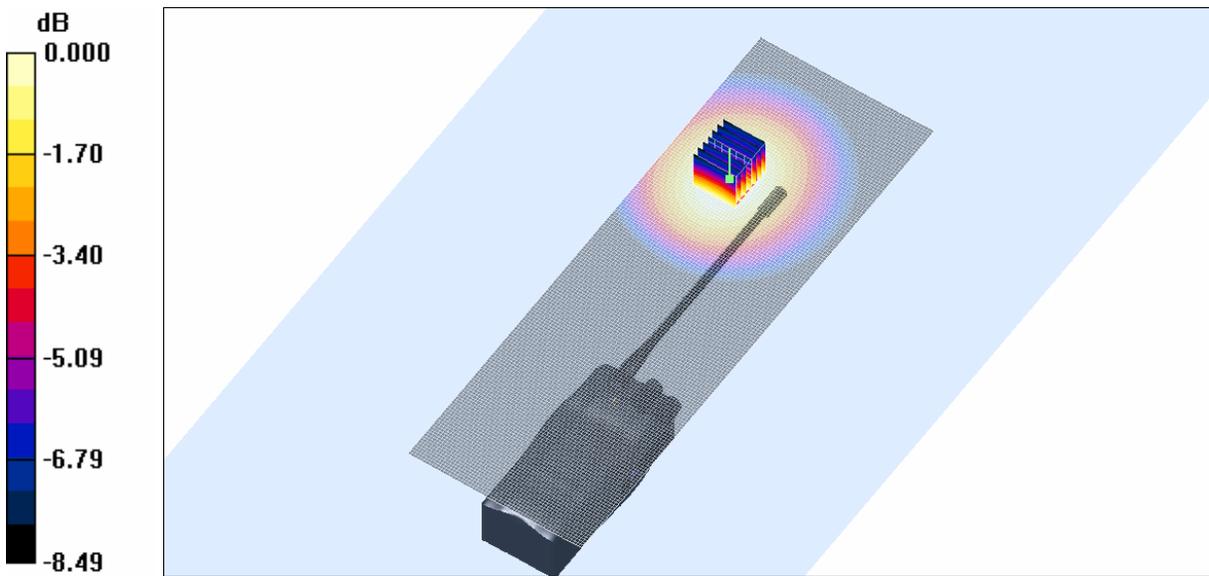
File Name: 920 MHz Leather Pouch 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920 \text{ MHz}$ ;  $\sigma = 1.07 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 2.57 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 40.9 V/m; Power Drift = 0.151 dB  
 Peak SAR (extrapolated) = 3.12 W/kg  
**SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.7 mW/g**  
 Maximum value of SAR (measured) = 2.44 mW/g

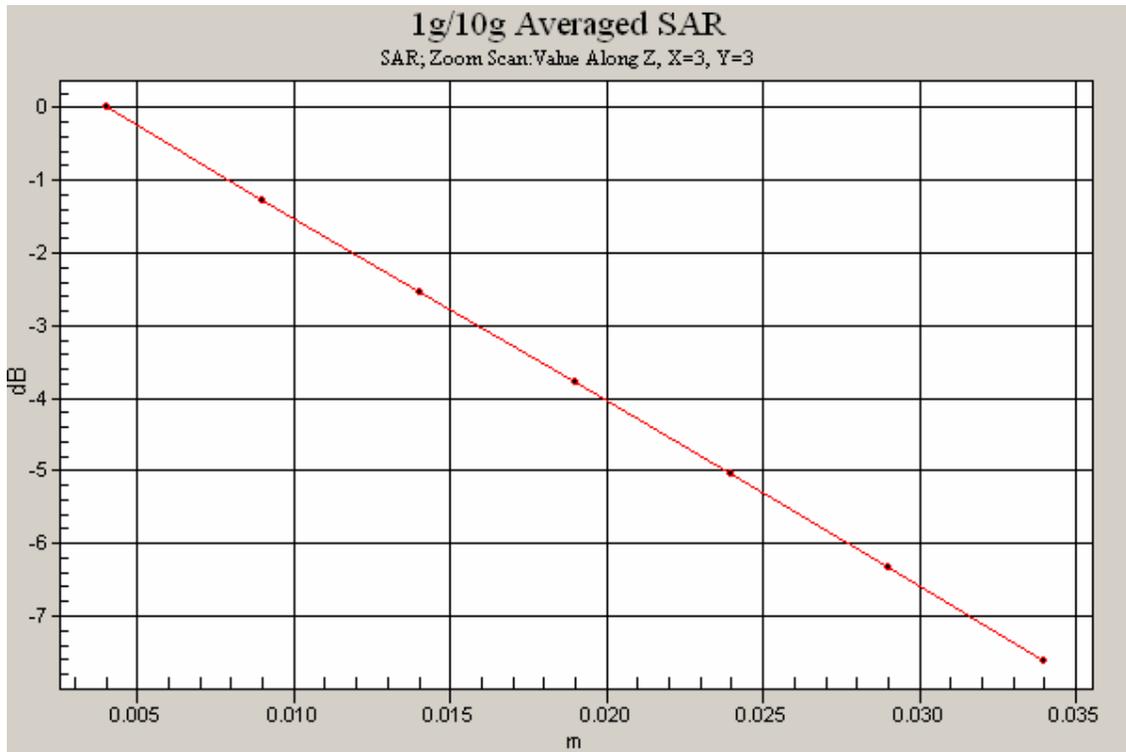


**SAR MEASUREMENT PLOT 14**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.5 Degrees Celsius  
 19.3 Degrees Celsius  
 63.0 %





Test Date: 06 January 2009

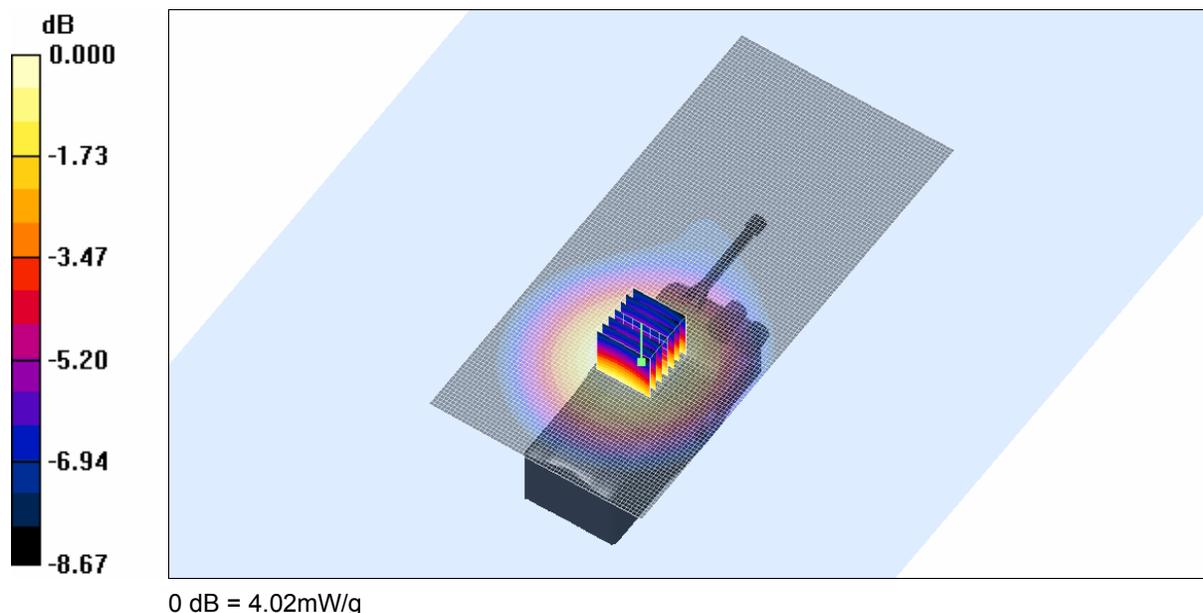
File Name: 920 MHz Nylon Pouch 0.25 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920$  MHz;  $\sigma = 1.07$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 4.11 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 22.4 V/m; Power Drift = -0.277 dB  
 Peak SAR (extrapolated) = 5.02 W/kg  
**SAR(1 g) = 3.81 mW/g; SAR(10 g) = 2.79 mW/g**  
 Maximum value of SAR (measured) = 4.02 mW/g



**SAR MEASUREMENT PLOT 15**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.5 Degrees Celsius  
 19.3 Degrees Celsius  
 63.0 %





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Test Date: 06 January 2009

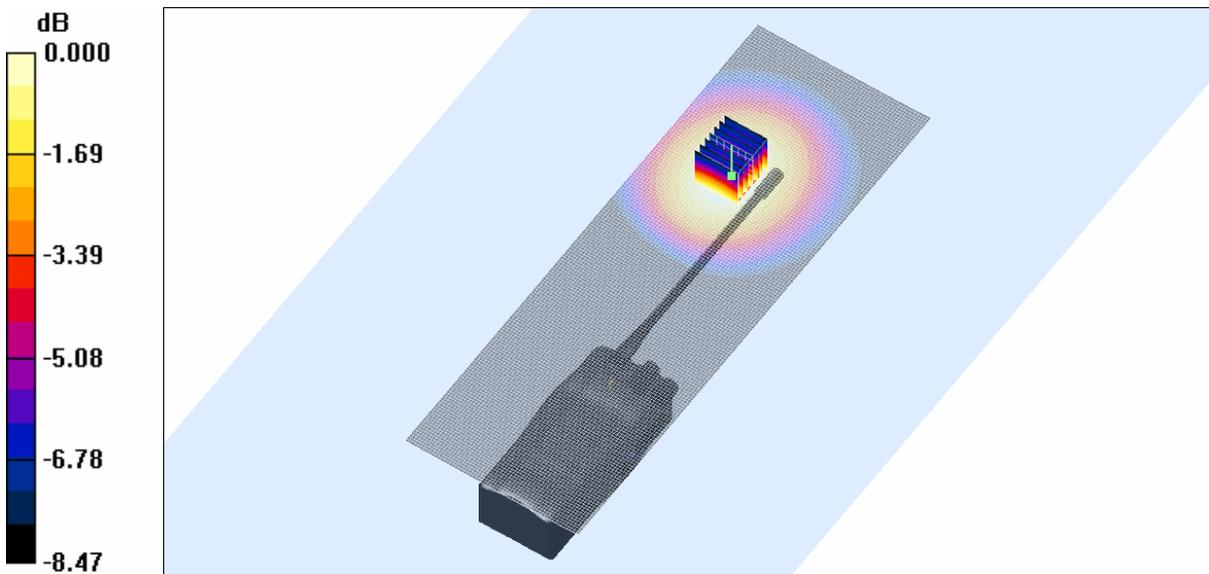
File Name: 920 MHz Nylon Pouch 0.5 Wave Antenna (DAE359 Probe 3563) 06-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071845

- \* Communication System: CW 920 MHz; Frequency: 918.5 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 920 \text{ MHz}$ ;  $\sigma = 1.07 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.38, 8.38, 8.38)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 2 Test/Area Scan (61x181x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 2.21 mW/g

**Channel 2 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 38.1 V/m; Power Drift = -0.319 dB  
Peak SAR (extrapolated) = 2.74 W/kg  
**SAR(1 g) = 2.04 mW/g; SAR(10 g) = 1.49 mW/g**  
Maximum value of SAR (measured) = 2.15 mW/g



**SAR MEASUREMENT PLOT 16**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %



Test Date: 18 January 2009

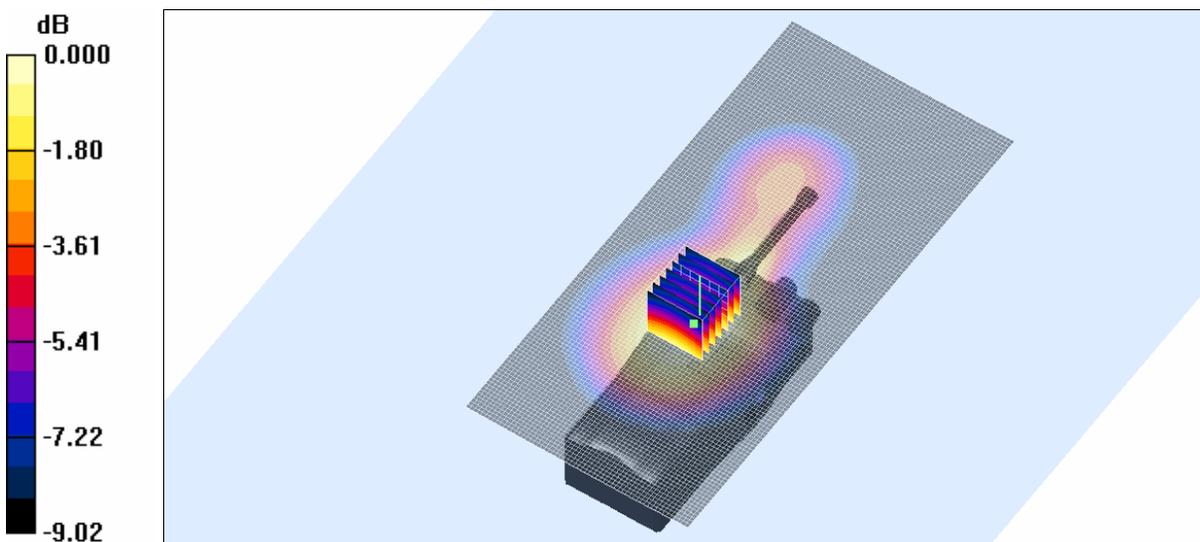
File Name: 920 MHz Belt Clip 0.25 Wave Antenna No Key (DAE442 Probe 1380) 18-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071838

- \* Communication System: CW 920 MHz; Frequency: 941 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 940 \text{ MHz}$ ;  $\sigma = 1.09 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.9, 5.9, 5.9)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
 Maximum value of SAR (interpolated) = 9.82 mW/g

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 68.8 V/m; Power Drift = -0.442 dB  
 Peak SAR (extrapolated) = 11.4 W/kg  
**SAR(1 g) = 8.85 mW/g; SAR(10 g) = 6.38 mW/g**  
 Maximum value of SAR (measured) = 9.45 mW/g



0 dB = 9.45mW/g

**SAR MEASUREMENT PLOT 17**

Ambient Temperature  
 Liquid Temperature  
 Humidity

19.7 Degrees Celsius  
 19.5 Degrees Celsius  
 51.0 %





Test Date: 18 January 2009

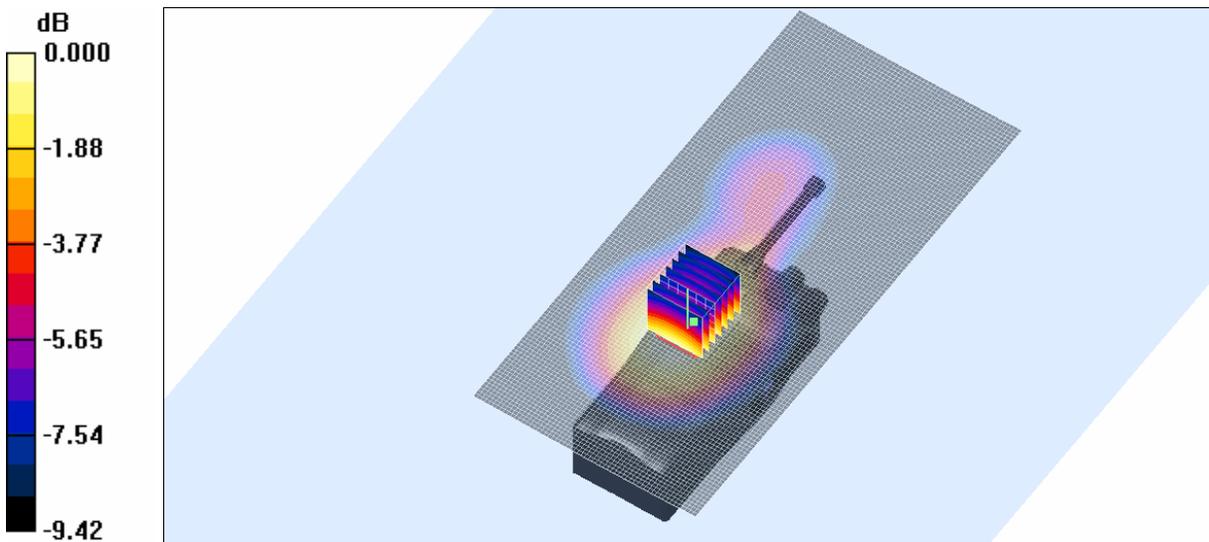
File Name: 920 MHz Belt Clip 0.25 Wave Antenna 4 Key (DAE442 Probe 1380) 18-01-09.da4

DUT: Tait Handheld Transceiver; Type: TPCL3A; Serial: 25071840

- \* Communication System: CW 920 MHz; Frequency: 941 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 940$  MHz;  $\sigma = 1.09$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.9, 5.9, 5.9)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

**Channel 3/Area Scan (61x131x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 13.5 mW/g

**Channel 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 64.2 V/m; Power Drift = -0.476 dB  
Peak SAR (extrapolated) = 15.0 W/kg  
**SAR(1 g) = 11.7 mW/g; SAR(10 g) = 8.44 mW/g**  
Maximum value of SAR (measured) = 12.5 mW/g



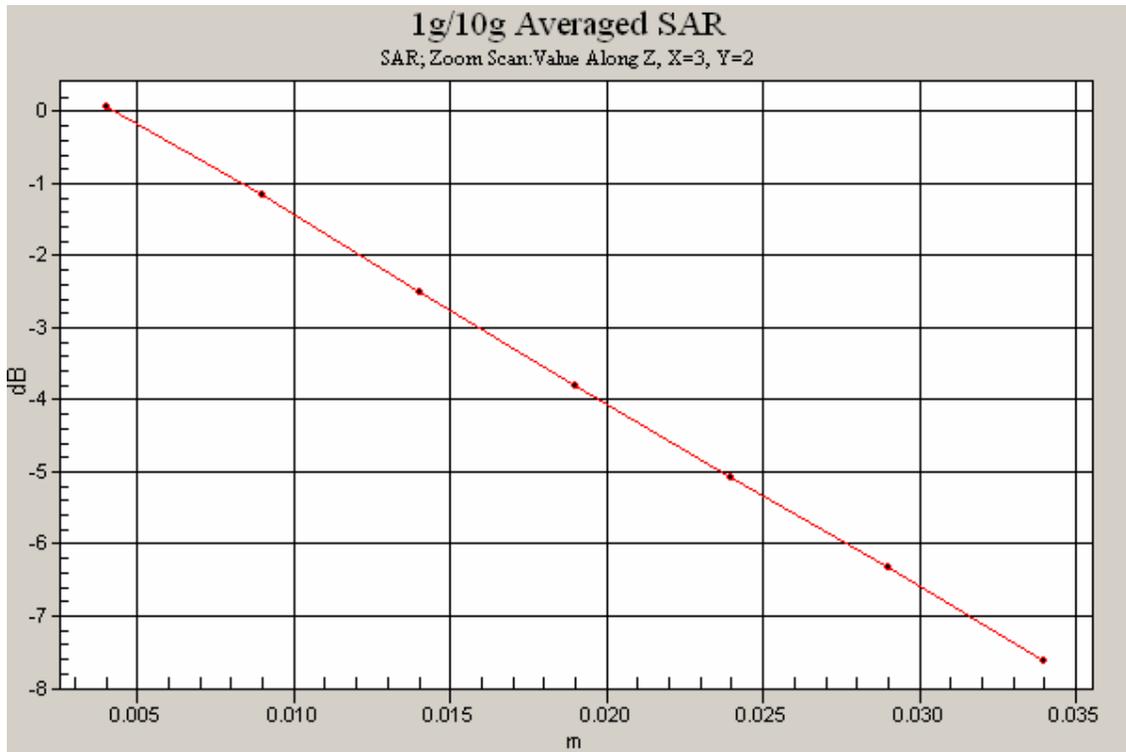
0 dB = 12.5mW/g

**SAR MEASUREMENT PLOT 18**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
51.0 %





Test Date: 06 January 2009

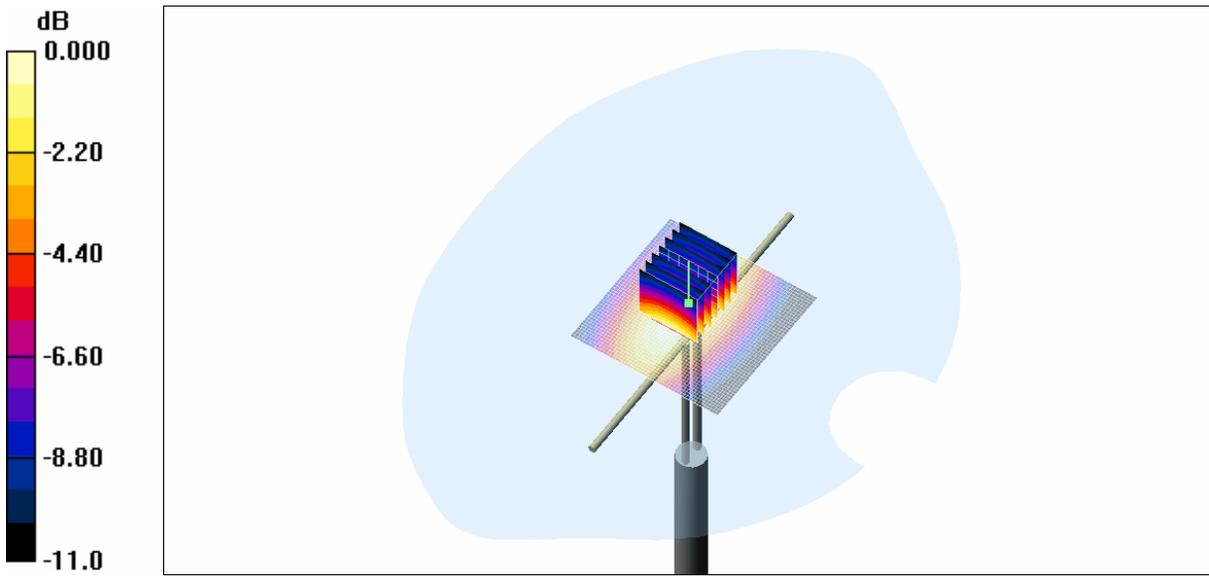
File Name: Validation 900 MHz ( DAE359 Probe 3563) 06-01-09.da4

DUT: **Dipole 900 MHz; Type: DV900; Serial: 047**

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.961 \text{ mho/m}$ ;  $\epsilon_r = 42$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.90 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 54.9 V/m; Power Drift = -0.035 dB  
Peak SAR (extrapolated) = 4.15 W/kg  
**SAR(1 g) = 2.68 mW/g; SAR(10 g) = 1.71 mW/g**  
Maximum value of SAR (measured) = 2.88 mW/g



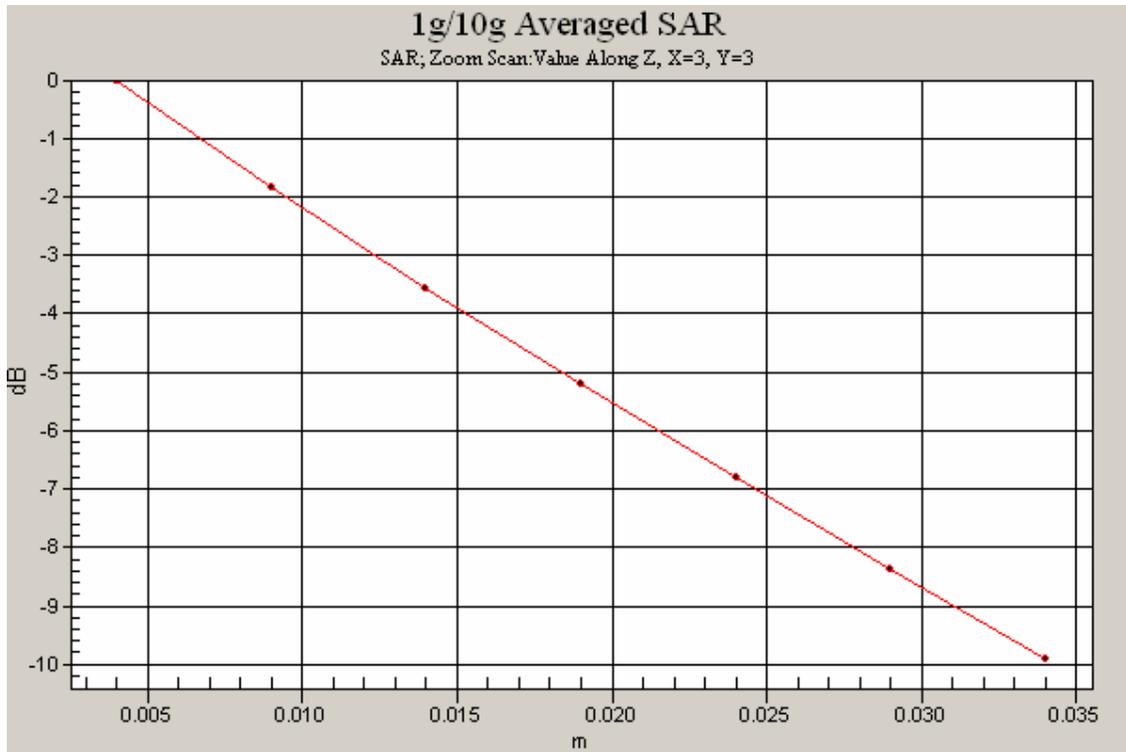
0 dB = 2.88mW/g

**SAR MEASUREMENT PLOT 19**

Ambient Temperature  
Liquid Temperature  
Humidity

19.5 Degrees Celsius  
19.3 Degrees Celsius  
63.0 %





Test Date: 08 January 2009

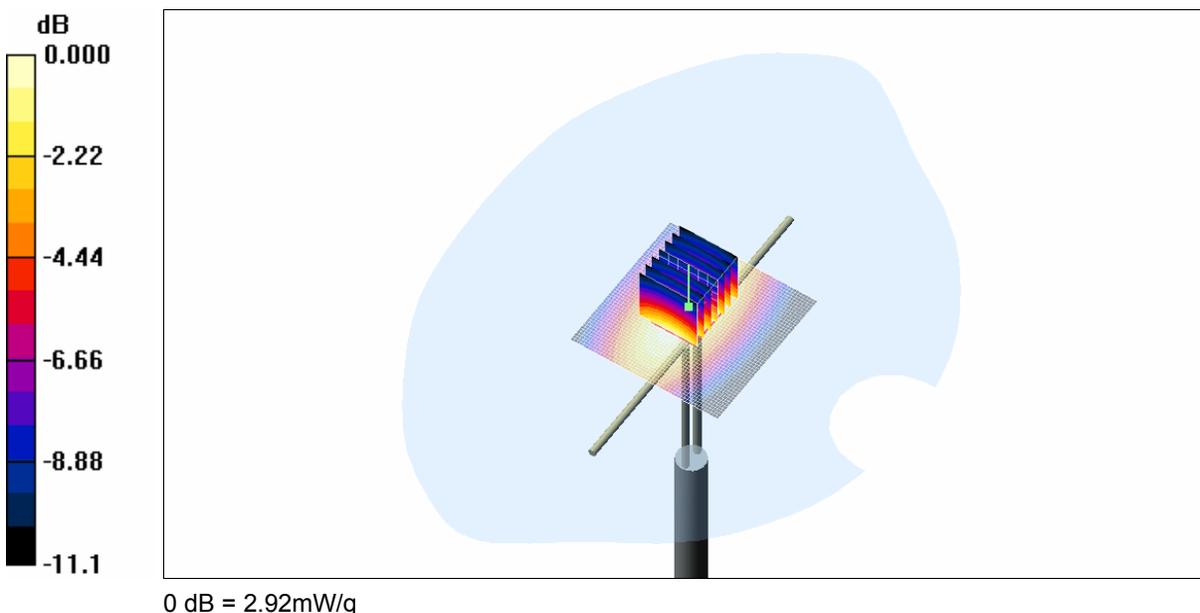
File Name: Validation 900 MHz ( DAE359 Probe 3563) 08-01-09.da4

DUT: Dipole 900 MHz; Type: DV900; Serial: 047

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.967 \text{ mho/m}$ ;  $\epsilon_r = 41.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn359; Probe: EX3DV4 - SN3563; ConvF(8.3, 8.3, 8.3)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.91 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 54.7 V/m; Power Drift = 0.004 dB  
Peak SAR (extrapolated) = 4.19 W/kg  
**SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.72 mW/g**  
Maximum value of SAR (measured) = 2.92 mW/g



**SAR MEASUREMENT PLOT 20**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
58.0 %





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Test Date: 18 January 2009

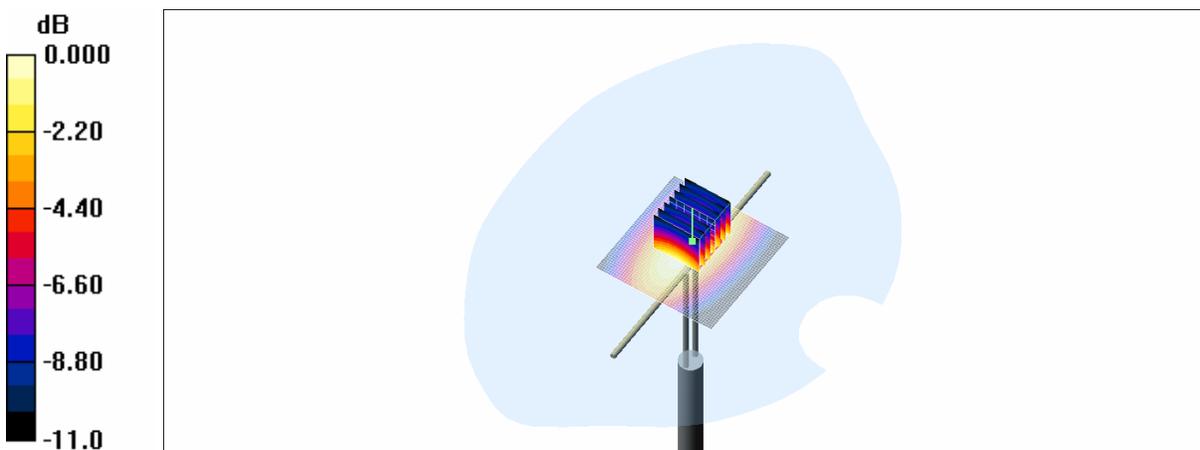
File Name: Validation 900 MHz ( DAE442 Probe1380) 18-01-09.da4

DUT: Dipole 900 MHz; Type: DV900; Serial: 047

- \* Communication System: CW 900 MHz; Frequency: 900 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.941 \text{ mho/m}$ ;  $\epsilon_r = 40.7$ ;  $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(5.95, 5.95, 5.95)
- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.98 mW/g

**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 58.8 V/m; Power Drift = -0.002 dB  
Peak SAR (extrapolated) = 4.15 W/kg  
**SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.77 mW/g**  
Maximum value of SAR (measured) = 2.99 mW/g

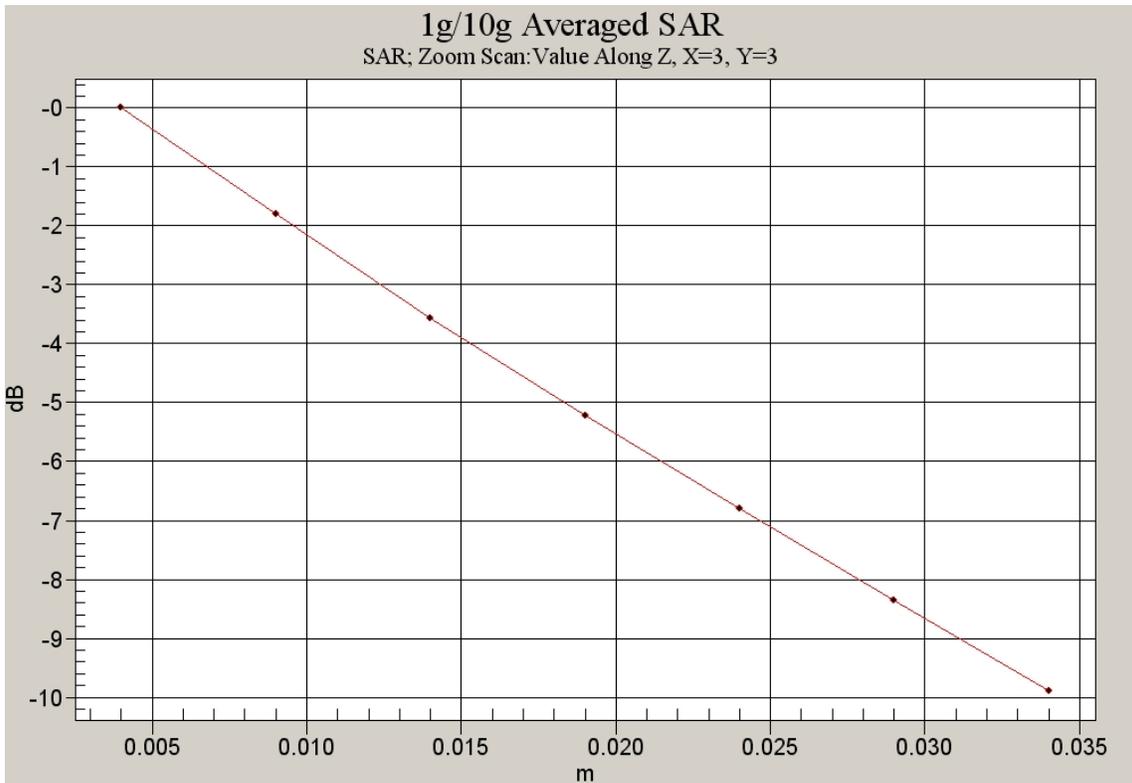


**SAR MEASUREMENT PLOT 21**

Ambient Temperature  
Liquid Temperature  
Humidity

19.7 Degrees Celsius  
19.5 Degrees Celsius  
51.0 %





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