

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: 2450 MHz DSSS Band SAR Measurement Plot Numbers

1. Test Position	2. Plot No.	3. Antenna	4. Test Channel
*Notebook	1	Aux	06
*Notebook	2	Main	06
Notebook	3	Main	06
	4	Aux	01
	5	Aux	06
	6	Aux	11
Z-Axis graphs for Plots 3 to 6			
Notebook with Bluetooth On	7	Aux	01
Z-Axis graphs for Plot 7			

Table: 2450 MHz OFDM Band SAR Measurement Plot Numbers

1. Test Position	2. Plot No.	3. Antenna	4. Test Channel
Notebook	8	Aux	06
Z-Axis graphs for Plot 8			

Table: 2450MHz Validation Plot

Plot 9	Validation 2450 MHz 13 th October 2006
Plot 10	Validation 2450 MHz 16 th October 2006
Z-Axis graphs for Plot 9 to 10	

Test Date: 13 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Aux Bluetooth On Prescan 13-10-06.da4](#)

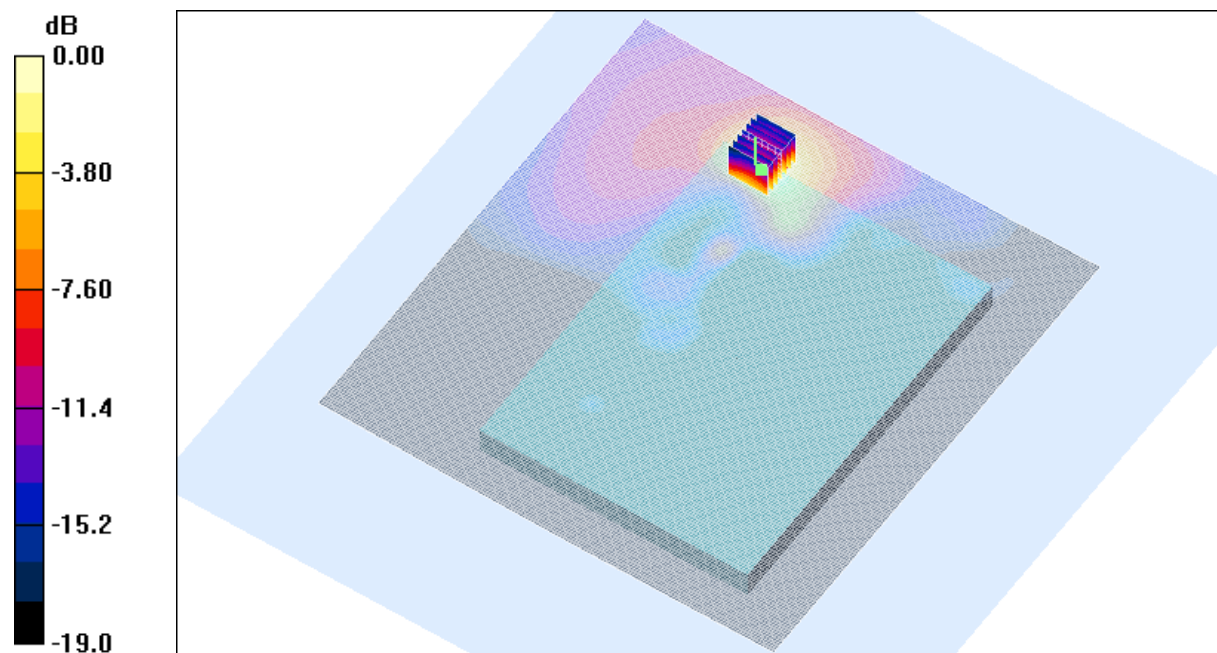
DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.92821$ mho/m, $\epsilon_r = 52.1253$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section



0 dB = 0.203mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.8 Degrees Celsius
45.0 %

Test Date: 16 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Main Bluetooth Off Prescan 16-10-06.da4](#)

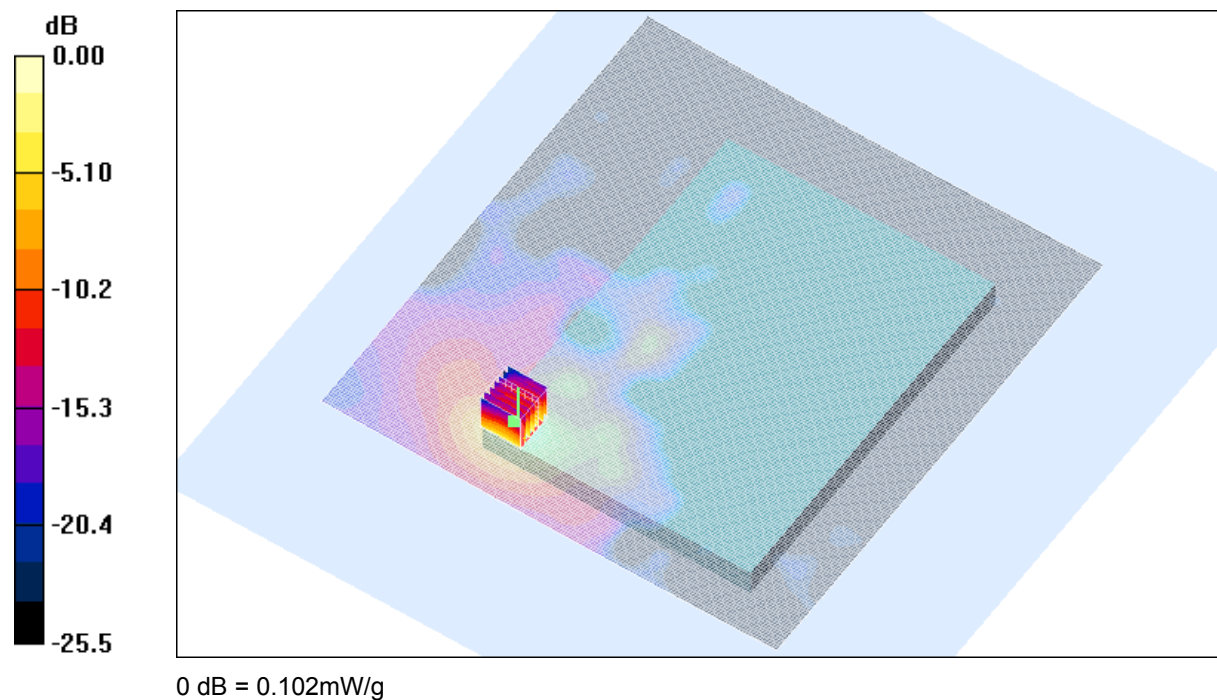
DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.98375$ mho/m, $\epsilon_r = 51.7472$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.2 Degrees Celsius
34.0 %

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Test Date: 13 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Main Bluetooth Off 13-10-06.da4](#)

DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.92821$ mho/m, $\epsilon_r = 52.1253$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 06 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.086 mW/g

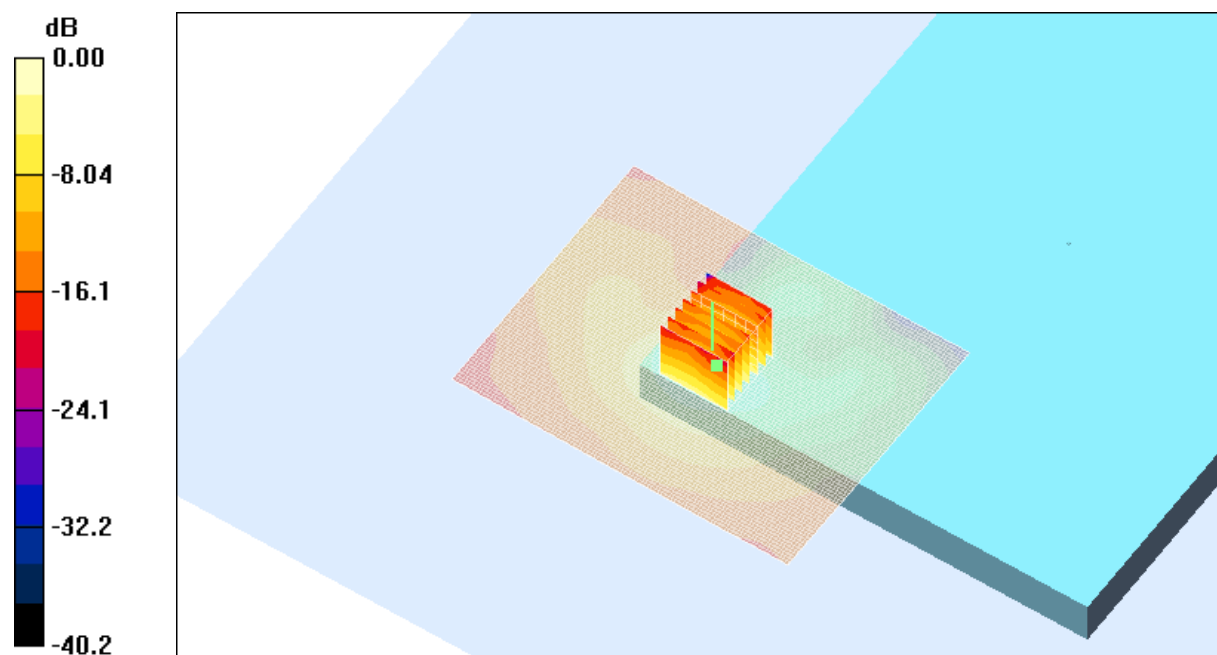
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.18 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.043 mW/g

Maximum value of SAR (measured) = 0.095 mW/g



0 dB = 0.095mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.8 Degrees Celsius
45.0 %

Test Date: 13 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Aux Bluetooth Off 13-10-06.da4](#)

DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.883$ mho/m, $\epsilon_r = 52.2729$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 01 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.226 mW/g

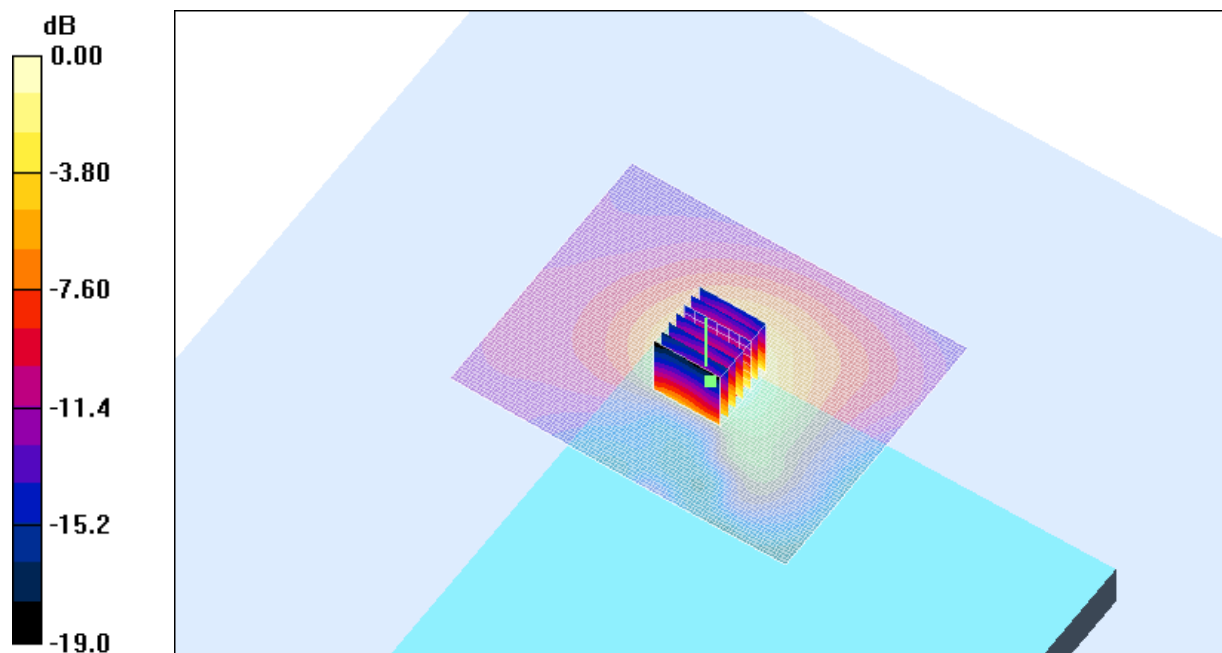
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



0 dB = 0.216mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.8 Degrees Celsius
45.0 %

Test Date: 13 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Aux Bluetooth Off 13-10-06.da4](#)

DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.92821$ mho/m, $\epsilon_r = 52.1253$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 06 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.209 mW/g

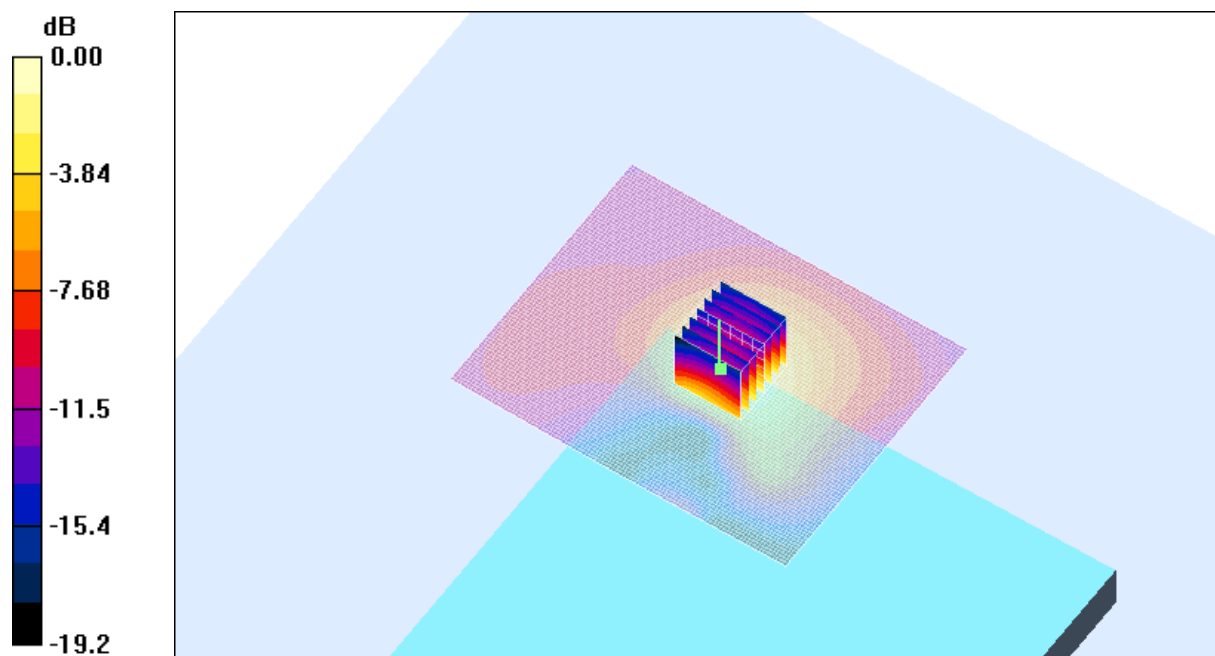
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.200 mW/g



0 dB = 0.200mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.8 Degrees Celsius
45.0 %

Test Date: 16 October 2006

File Name: [Notebook DSSS 2.45 GHz Antenna Aux Bluetooth Off 16-10-06.da4](#)

DUT: Fujitsu Notebook Mistletoe with 11abg Module; Type: Golan; Serial: 013FA5425CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 2.0184$ mho/m, $\epsilon_r = 51.6177$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 11 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.181 mW/g

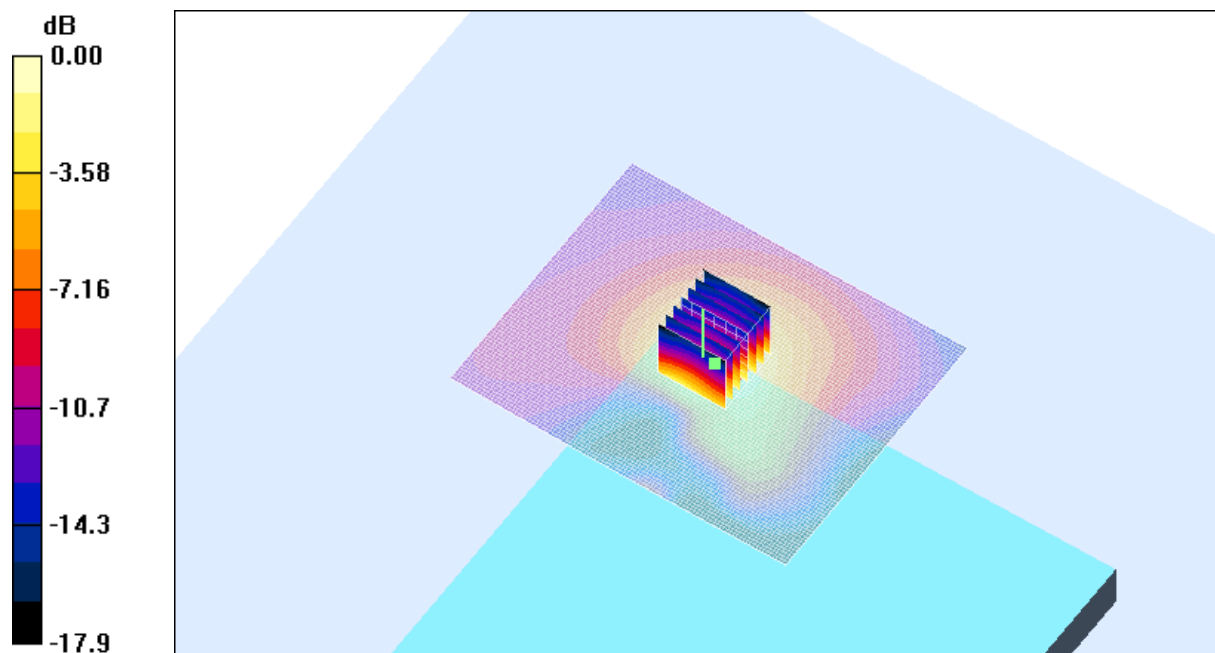
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.40 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.180 mW/g



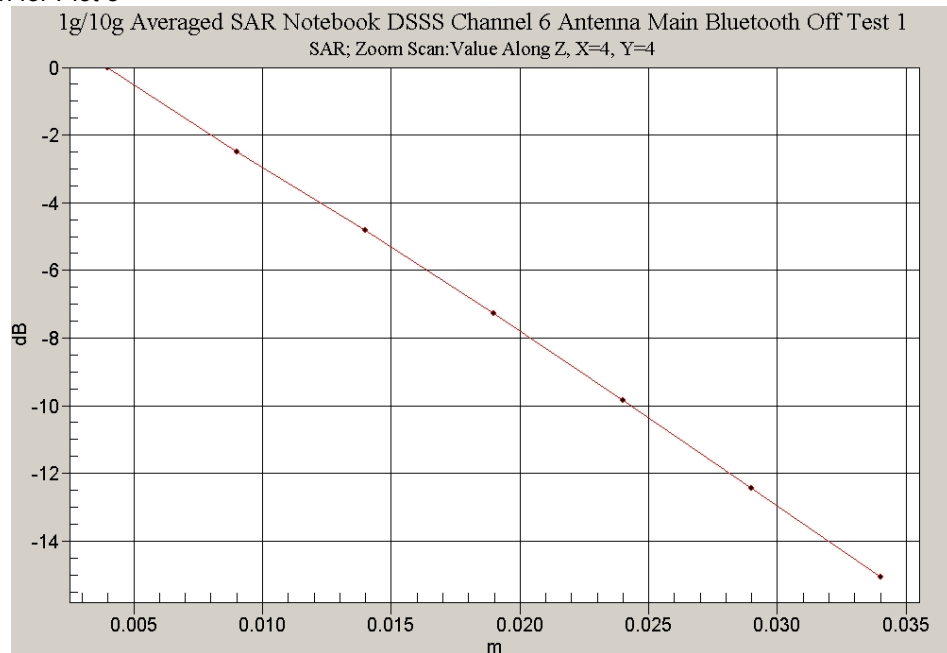
0 dB = 0.180mW/g

SAR MEASUREMENT PLOT 6

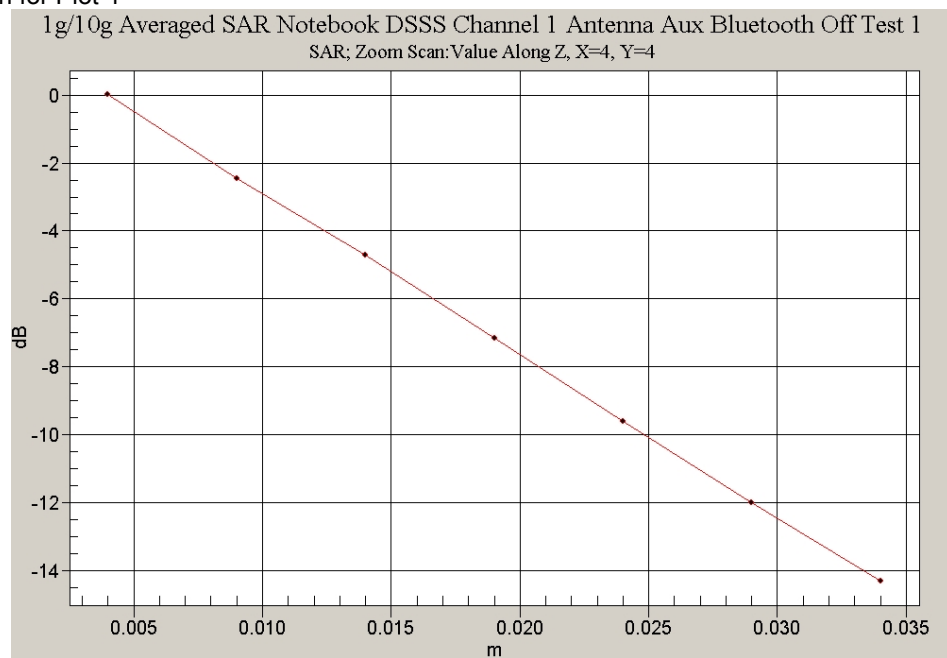
Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.2 Degrees Celsius
34.0 %

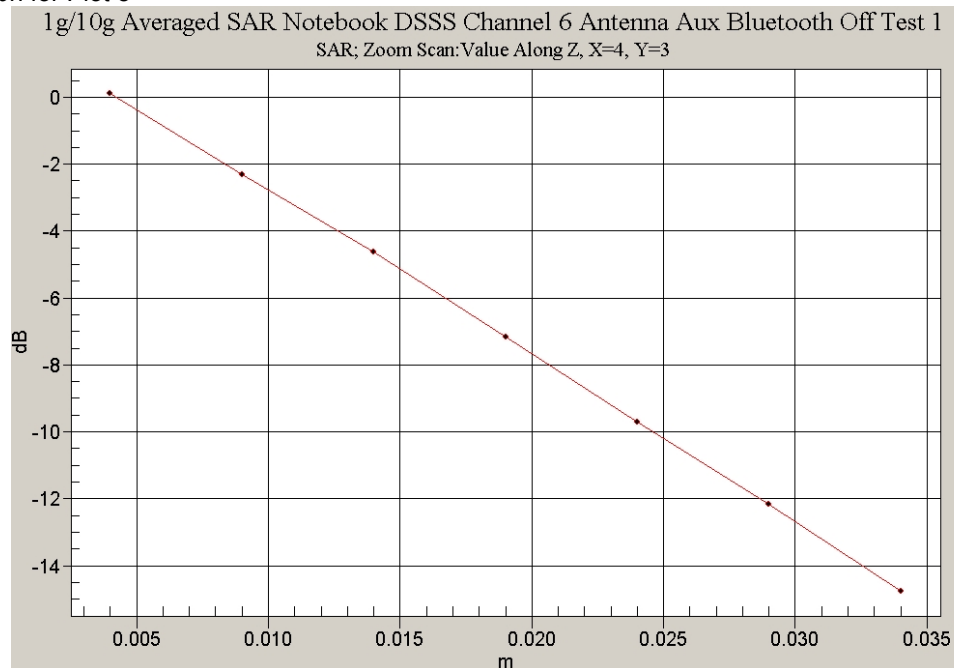
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6

