

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for the “Lap Arm Held” and “Tablet” tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table 22: 5200 MHz Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position - BT on– Ant A -- Prescan	CH#157
Plot 2	Lap Arm Held Position – Ant B -- Prescan	CH#157
Plot 3	Lap Arm Held Position – Ant A	CH#157
Plot 4	Lap Arm Held Position – Ant B	CH#149
Plot 5	Lap Arm Held Position – Ant B	CH#157
Plot 6	Lap Arm Held Position – Ant B	CH#165
Z-Axis graphs	Z-Axis graphs for Plots 3 to 6	
Plot 7	Edge On Position – Ant A	CH#157
Plot 8	Edge On Position – Ant B	CH#157
Z-Axis graphs	Z-Axis Graphs for Plots 7 & 8	
Plot 9	Tablet Position – Ant B - Prescan	CH#157
Plot 10	Lap Arm Held Position – Ant A	CH#52
Plot 11	Lap Arm Held Position – Ant B	CH#36
Plot 12	Lap Arm Held Position – Ant B	CH#52
Plot 13	Lap Arm Held Position – Ant B	CH#64
Z-axis graphs	Z-Axis graphs for Plots 9 to 13	
Plot 14	Edge on position – Ant A	CH#52
Plot 15	Lap Arm Held Position – Ant B -- Prescan	CH#157
Plot 16	Lap Arm Held Position – Ant B -- Prescan	CH#157
Z-axis graphs	Z-Axis graph for Plot 14	

Table 23: 2450MHz Validation Plot

Plot 17	Validation 5800 MHz 18 th May 2005
Plot 18	Validation 5800 MHz 19 th May 2005
Plot 19	Validation 5200 MHz 20 th May 2005
Plot 20	Validation 5800 MHz 13 th July 2005
Plot 21	Validation 5200 MHz 15 th July 2005
Z-Axis Graphs	Z-Axis graphs for Plots 17 to 21

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth On Prescan 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

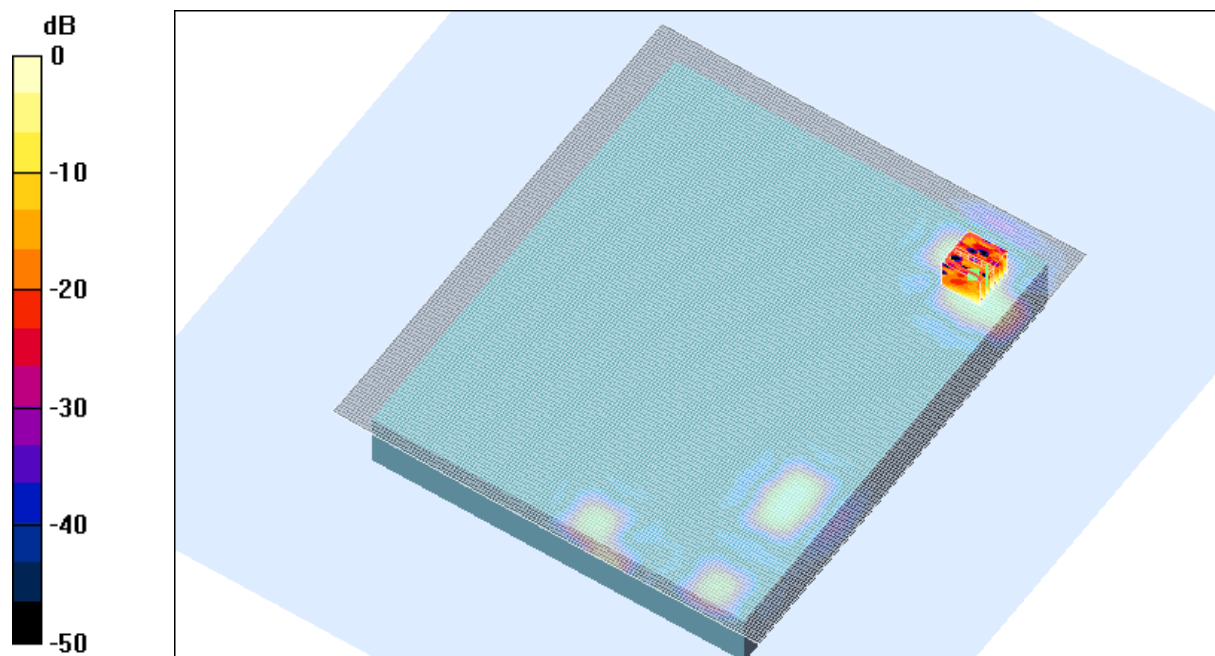
* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Bluetooth On Test/Area Scan (141x161x1): Measurement grid: dx=20mm, dy=20mm



0 dB = 0.931mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off Prescan 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

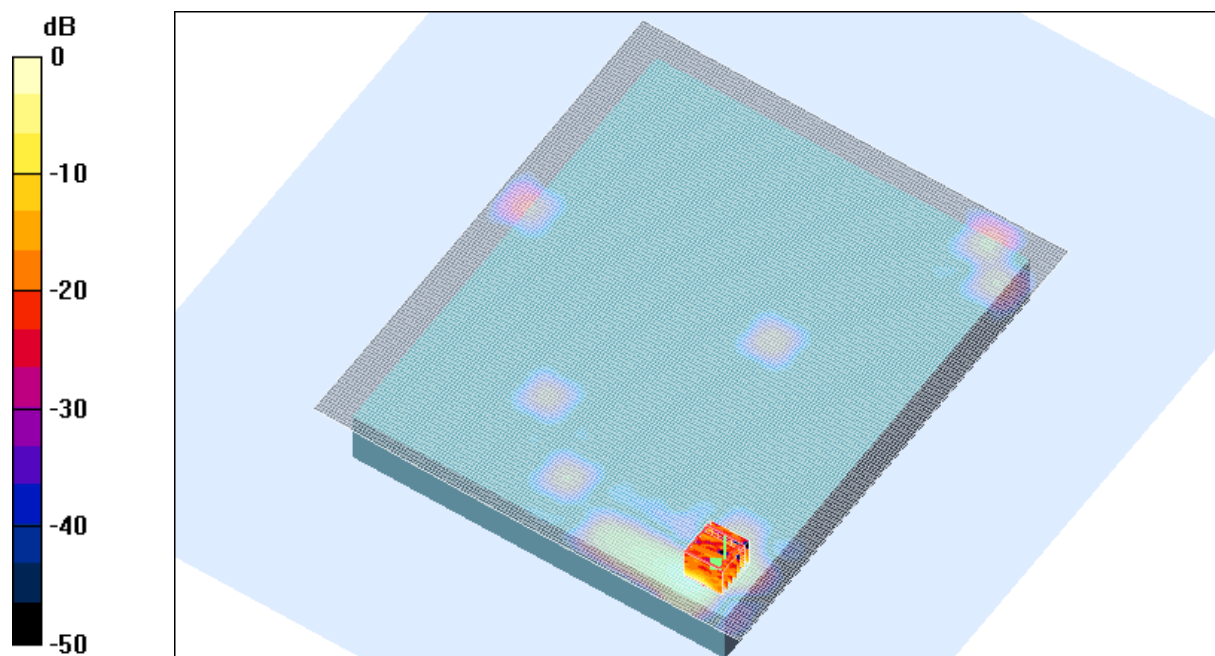
* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Test/Area Scan (141x161x1): Measurement grid: dx=20mm, dy=20mm



0 dB = 2.36mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth Off 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

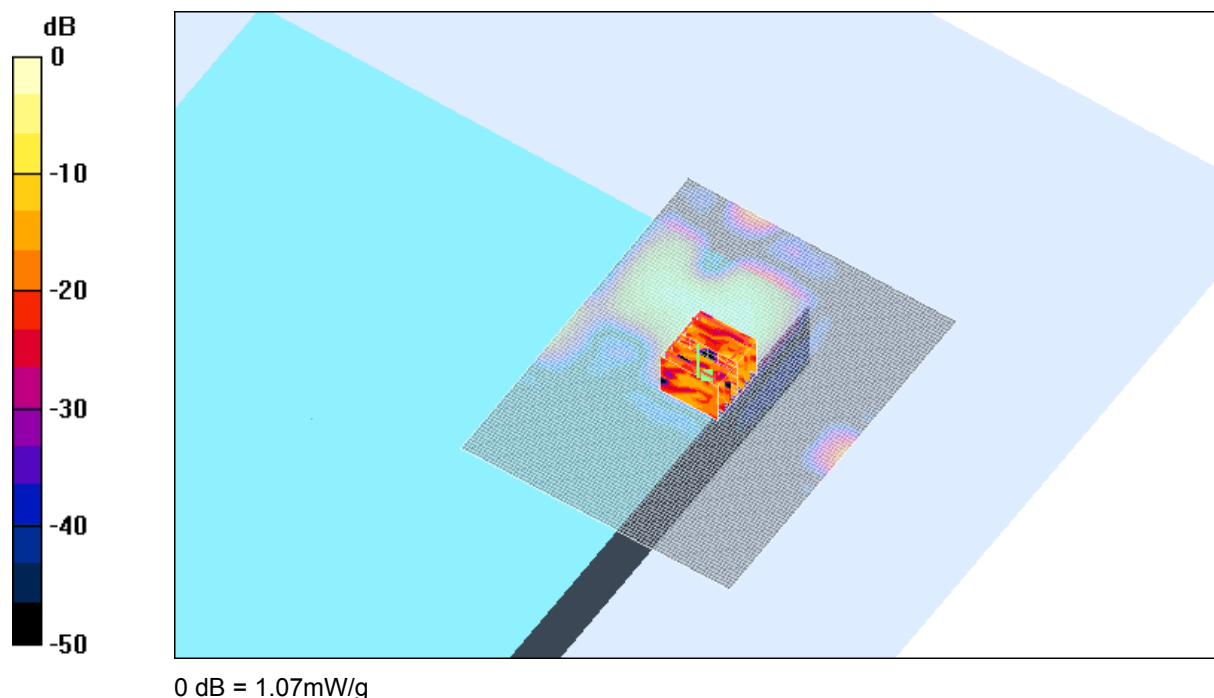
* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Test 2/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.807 mW/g

Channel 157 Test 2/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.35 V/m; Power Drift = 0.5 dB
Peak SAR (extrapolated) = 61.2 W/kg
SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 1.07 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

* Communication System: OFDM 5770 MHz; Frequency: 5745 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.0199$; mho/m, $\epsilon_r = 46.0861$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 149 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1 mW/g

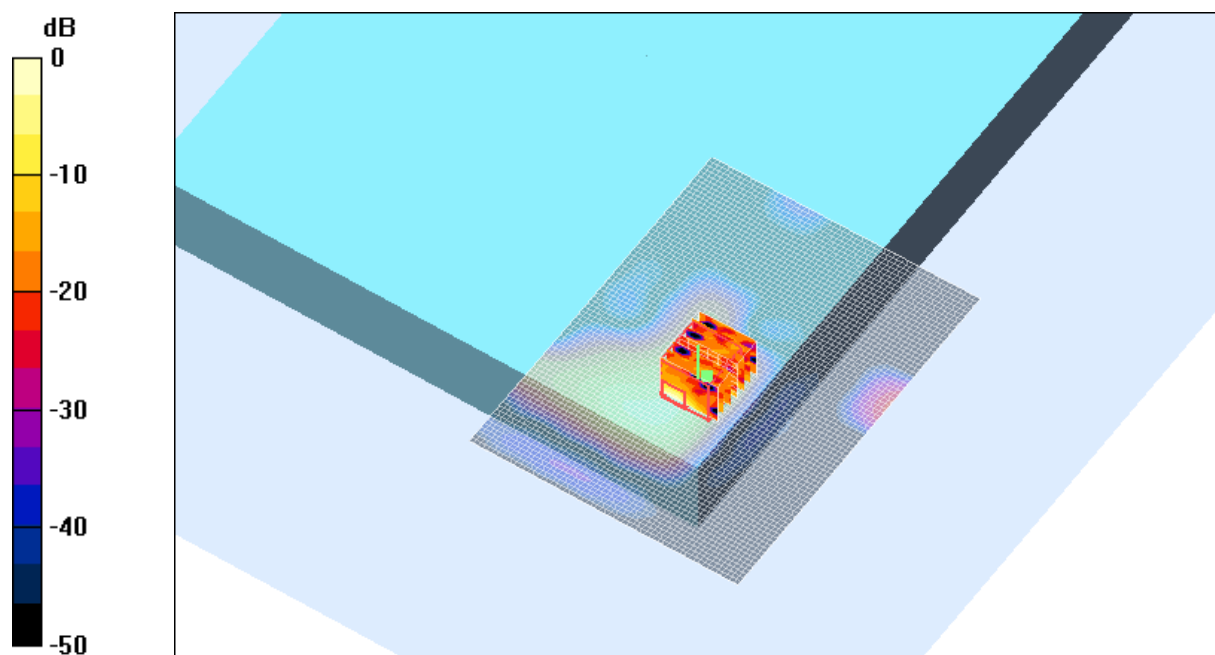
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 11.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 2.09 mW/g



0 dB = 2.09mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

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File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.43 mW/g

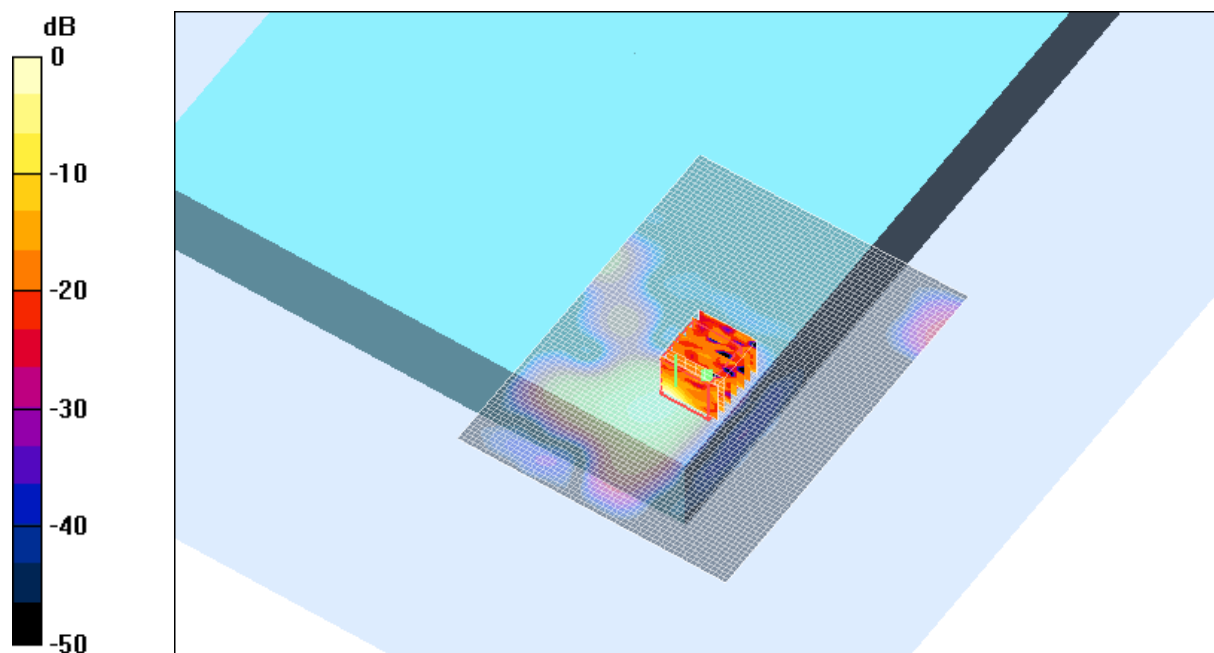
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 12.8 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 109487.6 W/kg

SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 2.15 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

* Communication System: OFDM 5770 MHz; Frequency: 5825 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.14459$; mho/m, $\epsilon_r = 45.8247$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 165 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.957 mW/g

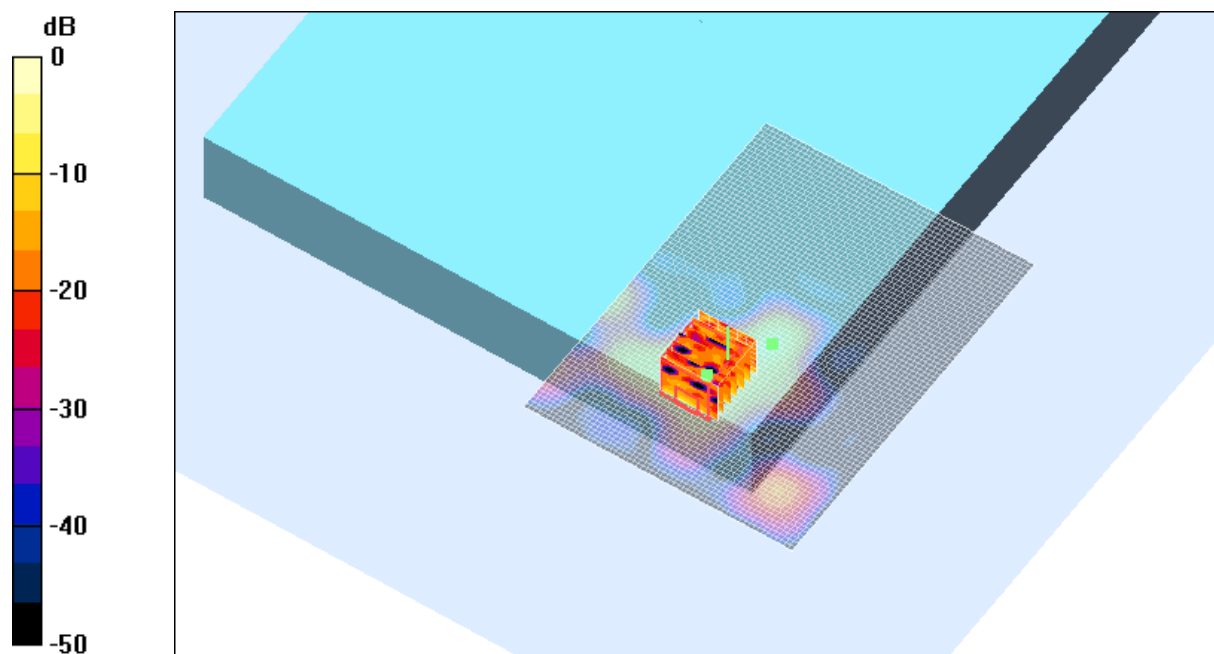
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.8 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 569376.0 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 2.01 mW/g



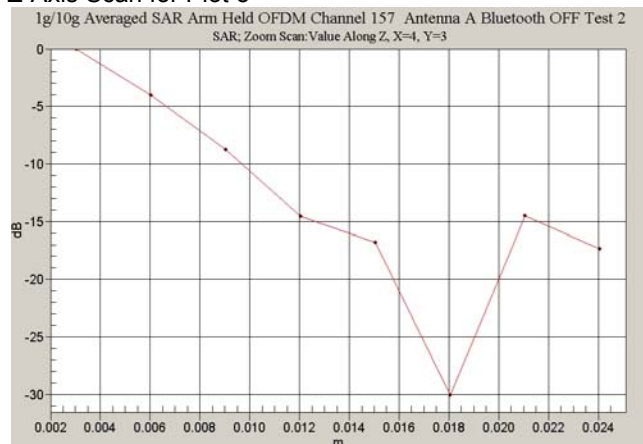
0 dB = 2.01mW/g

SAR MEASUREMENT PLOT 6

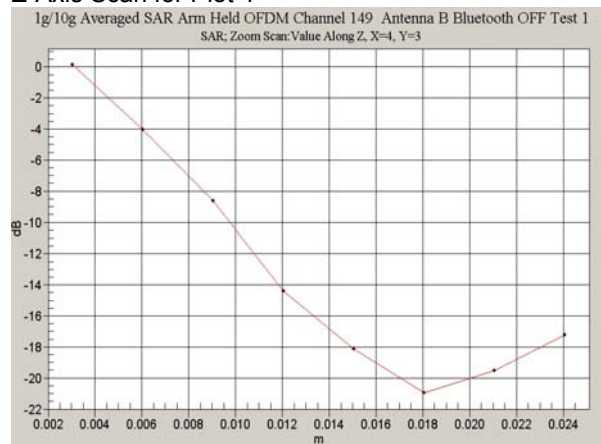
Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

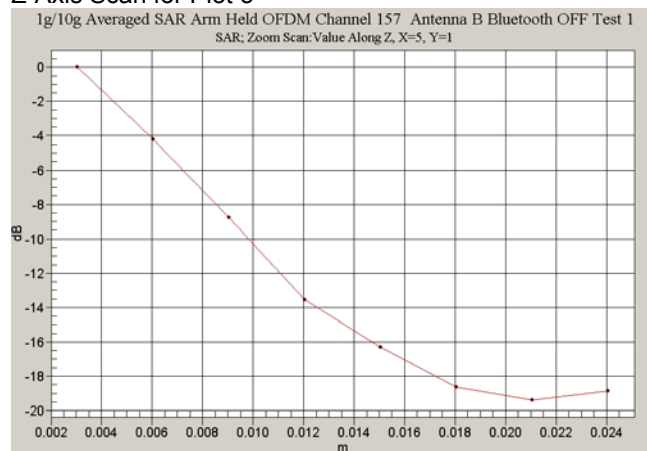
Z-Axis Scan for Plot 3



Z-Axis Scan for Plot 4



Z-Axis Scan for Plot 5



Z-Axis Scan for Plot 6

