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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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	Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW
			IC ID 2503A-RFG80UW	

Date/Time: 6/4/2012 9:48:33 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_06_04_12_Amb_Tem_23.2_Liq_Tem_21.9C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.881 \text{ mho/m}$; $\epsilon_r = 39.935$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 10.790 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

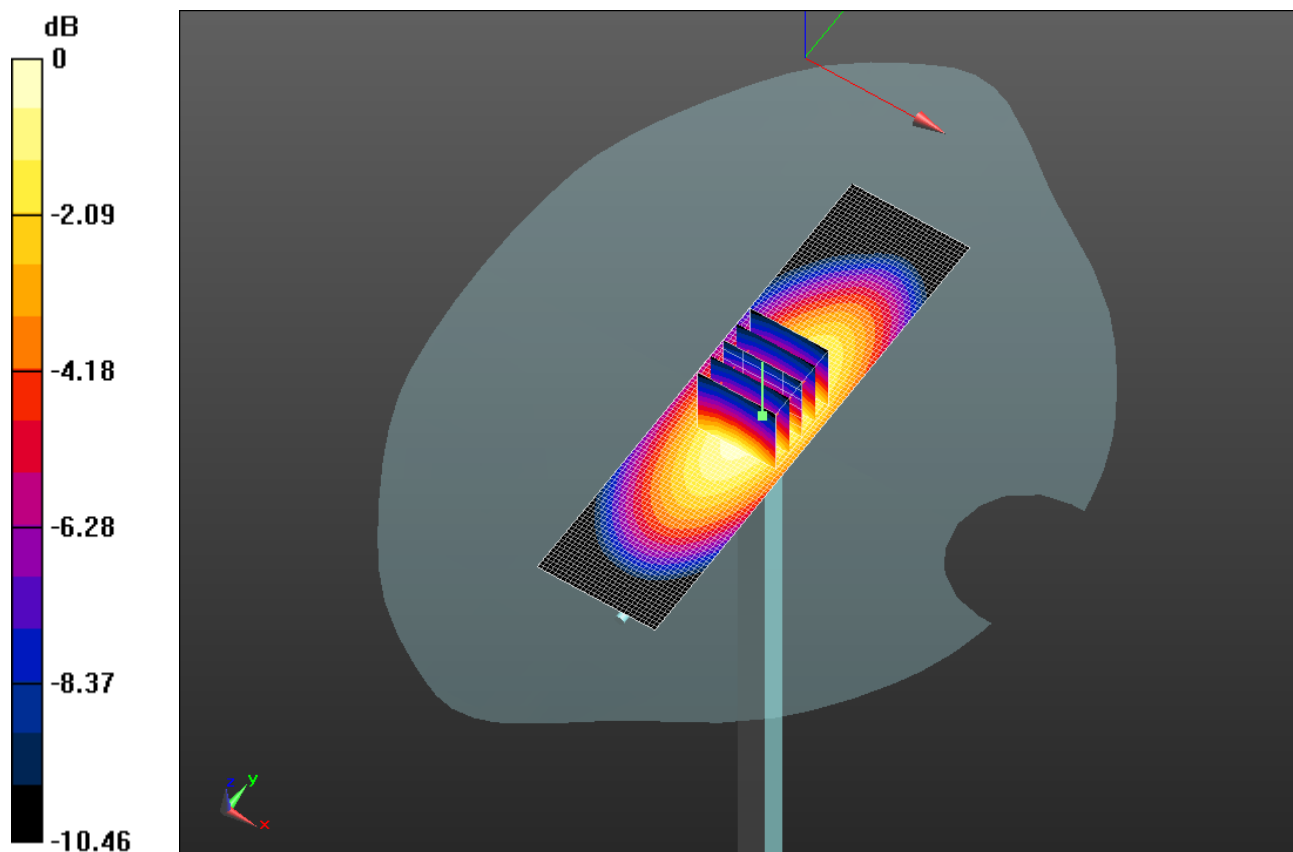
Reference Value = 114.7 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.6840

SAR(1 g) = 9.33 mW/g; SAR(10 g) = 6.12 mW/g

Maximum value of SAR (measured) = 10.898 mW/g

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0 dB = 10.900mW/g = 20.75 dB mW/g

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			IC ID 2503A-RFG80UW	

Date/Time: 7/19/2012 2:16:17 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_07_19_12_Amb_Tem_23.4_Liq_Tem_22.8C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 39.902$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement

grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 11.442 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

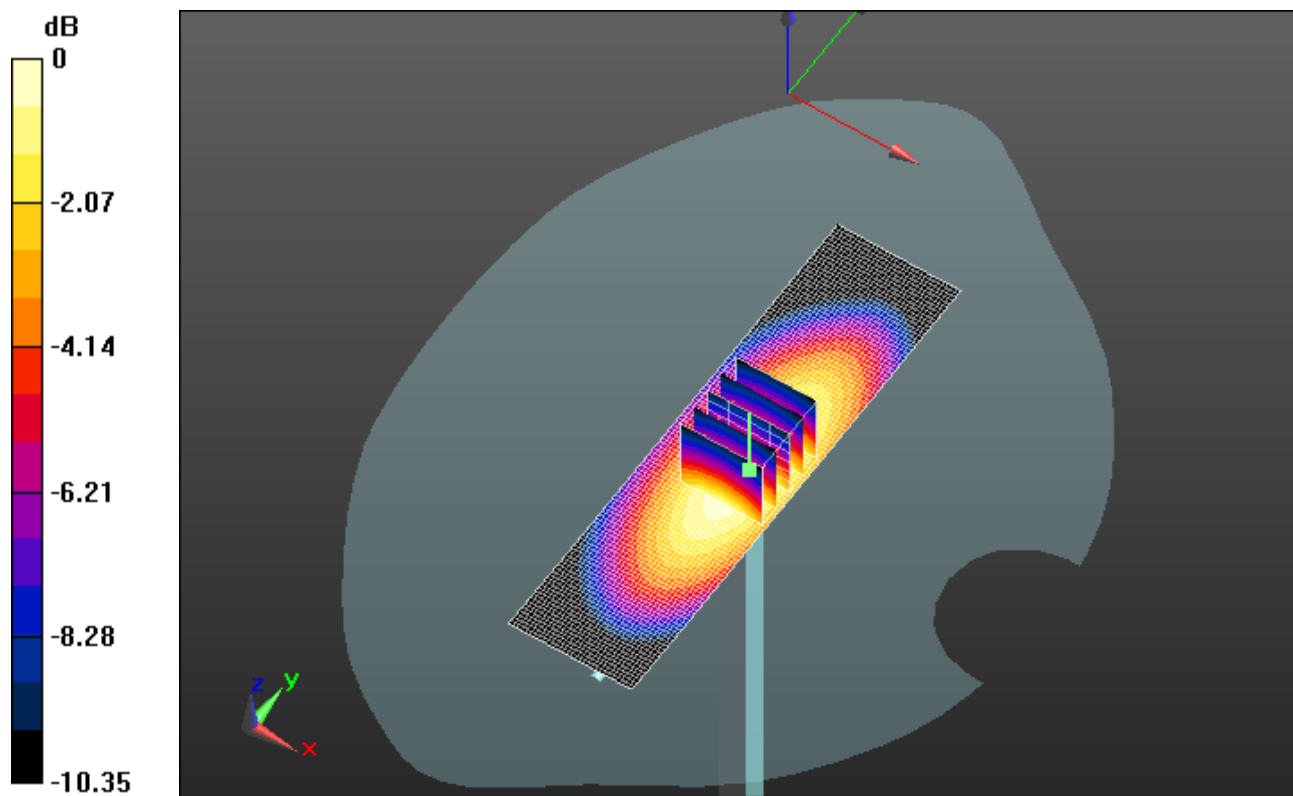
Reference Value = 113.0 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 14.2410

SAR(1 g) = 9.79 mW/g ; SAR(10 g) = 6.46 mW/g

Maximum value of SAR (measured) = 11.353 mW/g

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0 dB = 11.350mW/g = 21.10 dB mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	May 29 – August 16, 2012	RTS-6011-1208-28	L6ARFG80UW	2503A-RFG80UW

Date/Time: 7/24/2012 2:59:46 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_07_24_12_Amb_Tem_23.3_Liq_Tem_23.1C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.877 \text{ mho/m}$; $\epsilon_r = 40.205$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 10.946 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2 (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

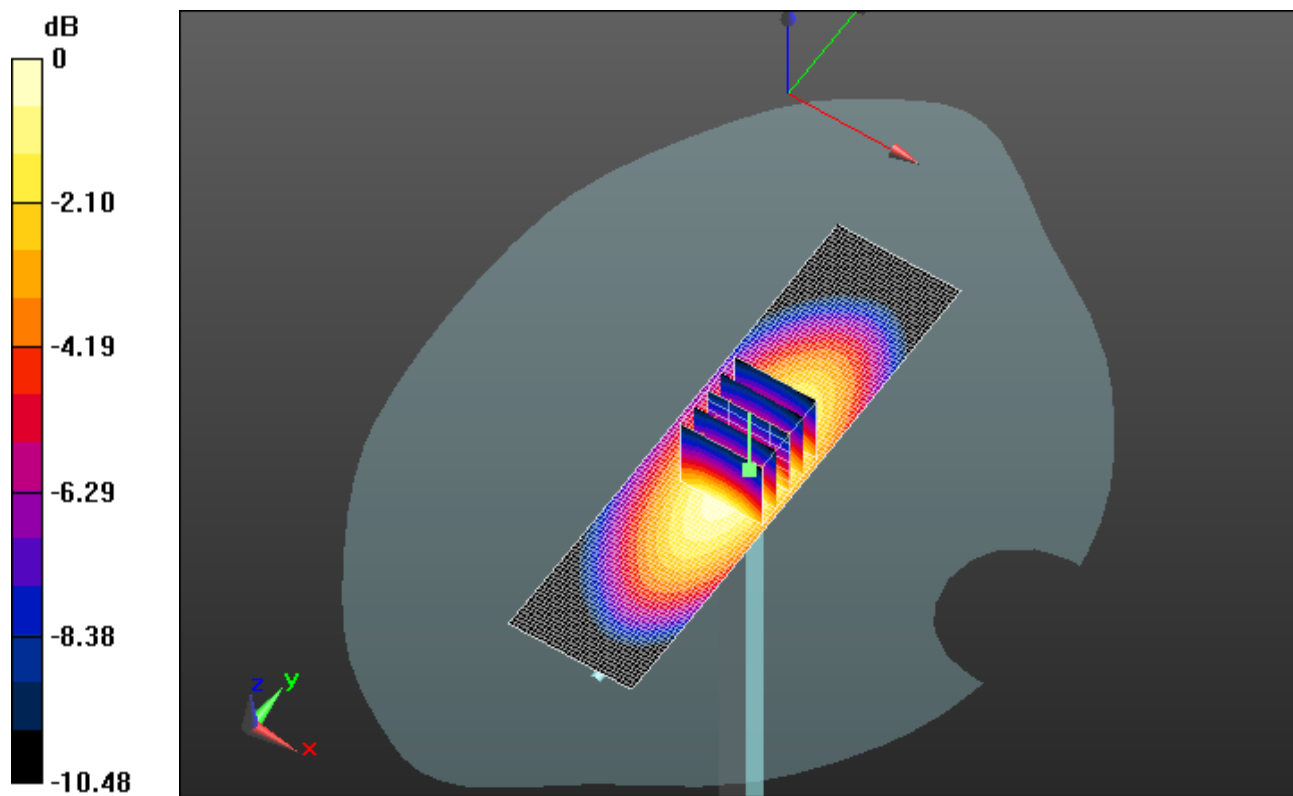
Reference Value = 114.6 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 13.7940

SAR(1 g) = 9.39 mW/g; SAR(10 g) = 6.16 mW/g

Maximum value of SAR (measured) = 10.958 mW/g

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0 dB = 10.960mW/g = 20.80 dB mW/g

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Date/Time: 5/29/2012 9:20:40 AM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_05_29_12_Amb_Tem_23.6_Liq_Tem_22.6C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.373 \text{ mho/m}$; $\epsilon_r = 38.536$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 49.953 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

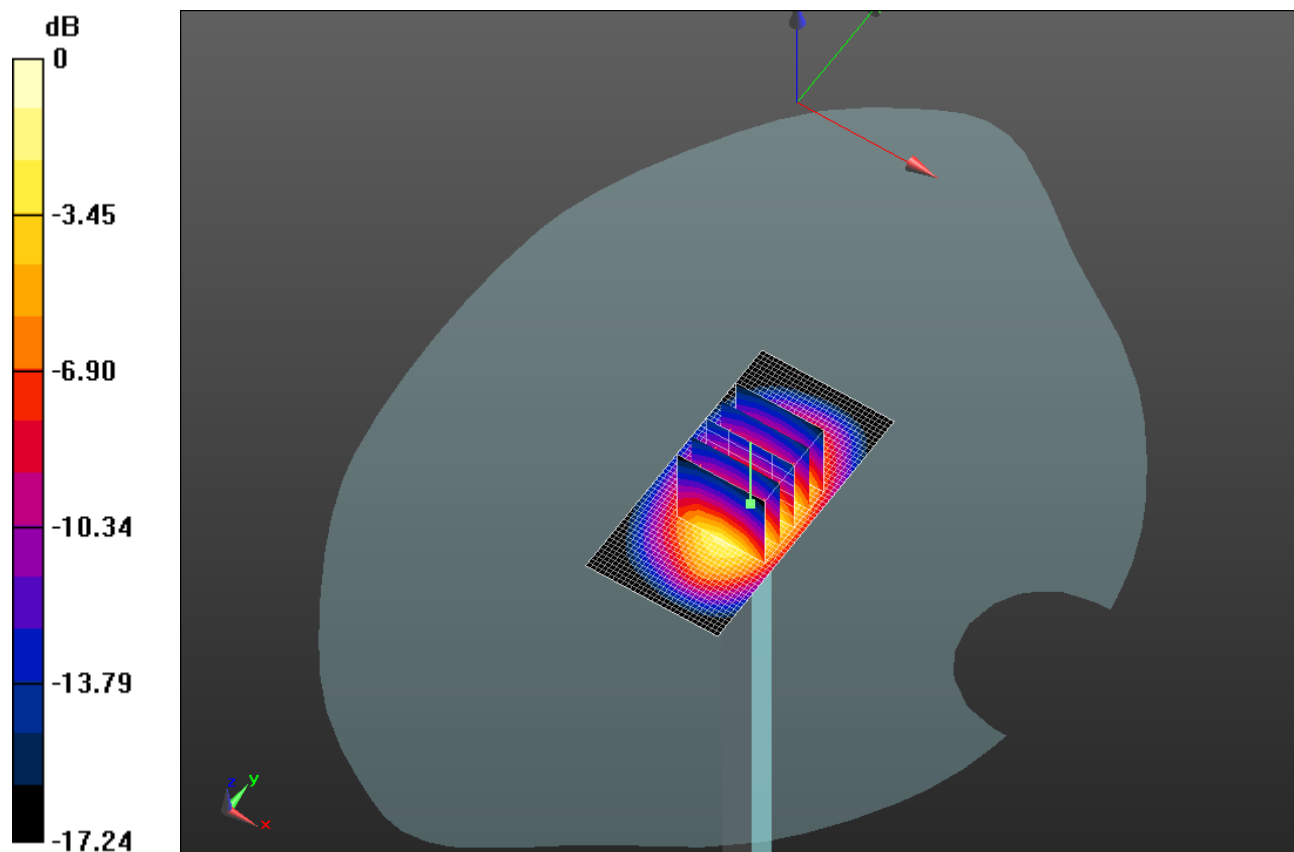
Reference Value = 197.7 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 70.9970

SAR(1 g) = 39.5 mW/g; SAR(10 g) = 20.7 mW/g

Maximum value of SAR (measured) = 50.123 mW/g

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0 dB = 50.120mW/g = 34.00 dB mW/g

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Date/Time: 5/31/2012 2:23:26 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_05_31_12_Amb_Tem_23.2_Liq_Tem_22.0C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.33$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 49.397 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube

0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

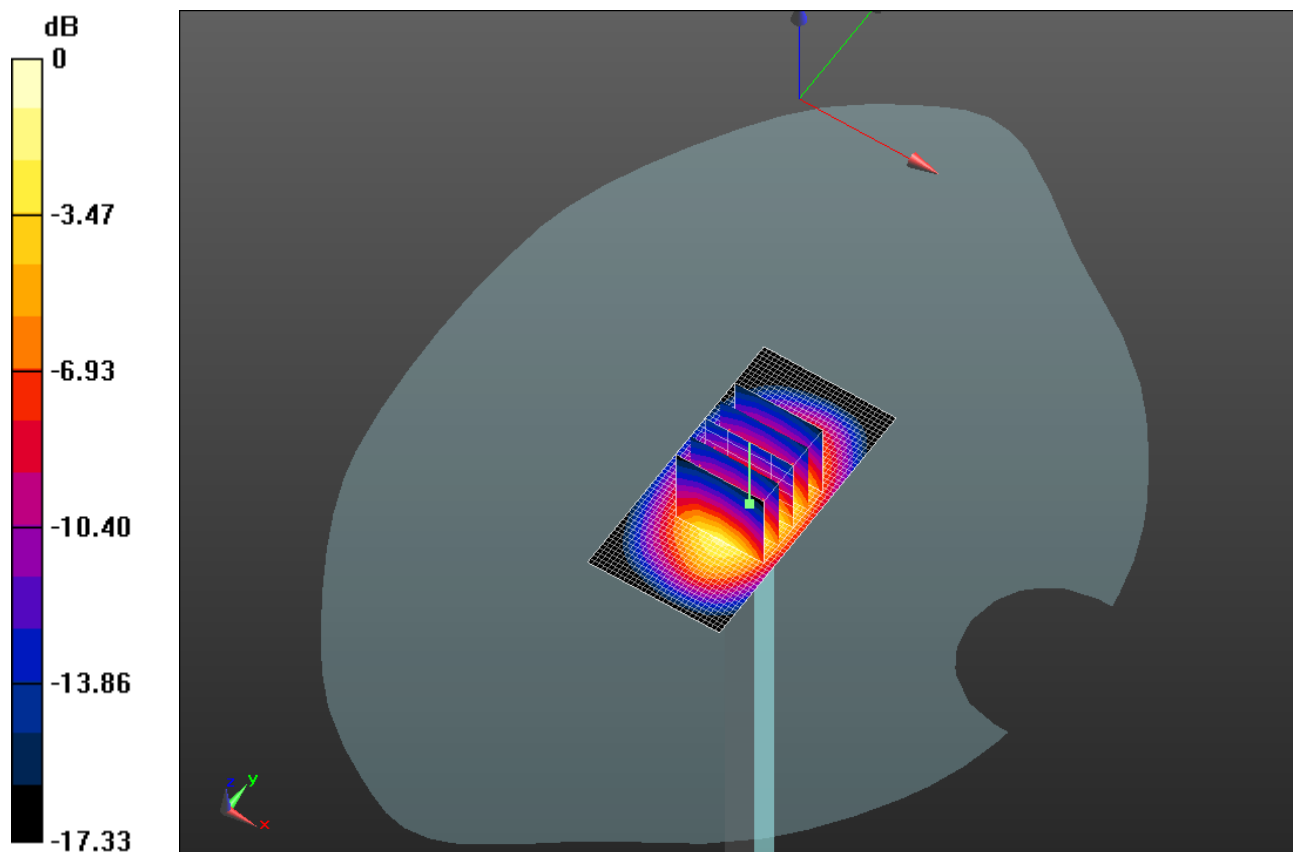
Reference Value = 192.3 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 69.9800

SAR(1 g) = 38.9 mW/g; SAR(10 g) = 20.4 mW/g

Maximum value of SAR (measured) = 49.347 mW/g

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0 dB = 49.350mW/g = 33.87 dB mW/g

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				IC ID 2503A-RFG80UW

Date/Time: 7/30/2012 12:28:49 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_07_30_12_Amb_Tem_23.6_Liq_Tem_23.0C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.388 \text{ mho/m}$; $\epsilon_r = 38.398$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 51.724 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube

0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

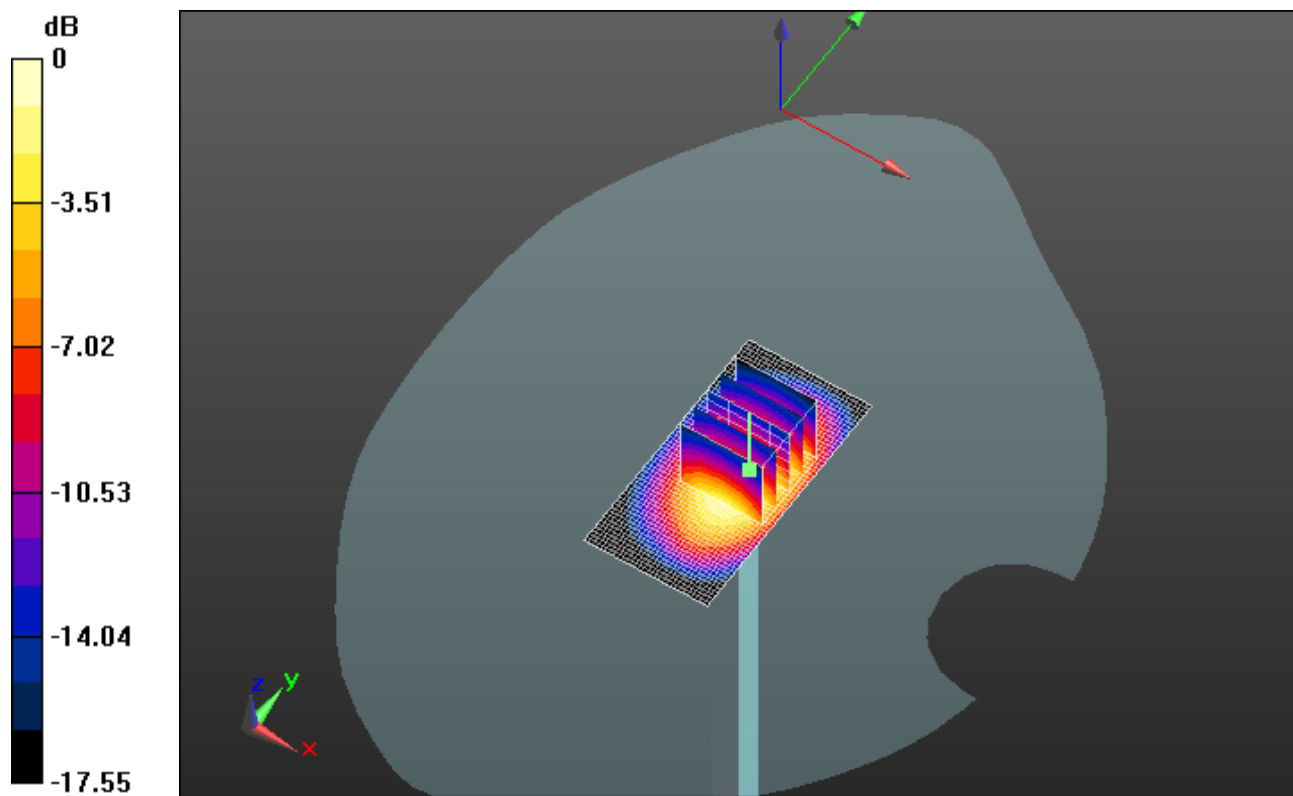
Reference Value = 195.2 V/m; Power Drift = 0.0073 dB

Peak SAR (extrapolated) = 72.9760

SAR(1 g) = 40.5 mW/g; SAR(10 g) = 21.3 mW/g

Maximum value of SAR (measured) = 51.289 mW/g

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0 dB = 51.290mW/g = 34.20 dB mW/g

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Date/Time: 7/23/2012 3:07:52 PM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_07_23_12_Amb_Tem_23.4_Liq_Tem_23.1C

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.75$ mho/m; $\epsilon_r = 37.474$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 72.599 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

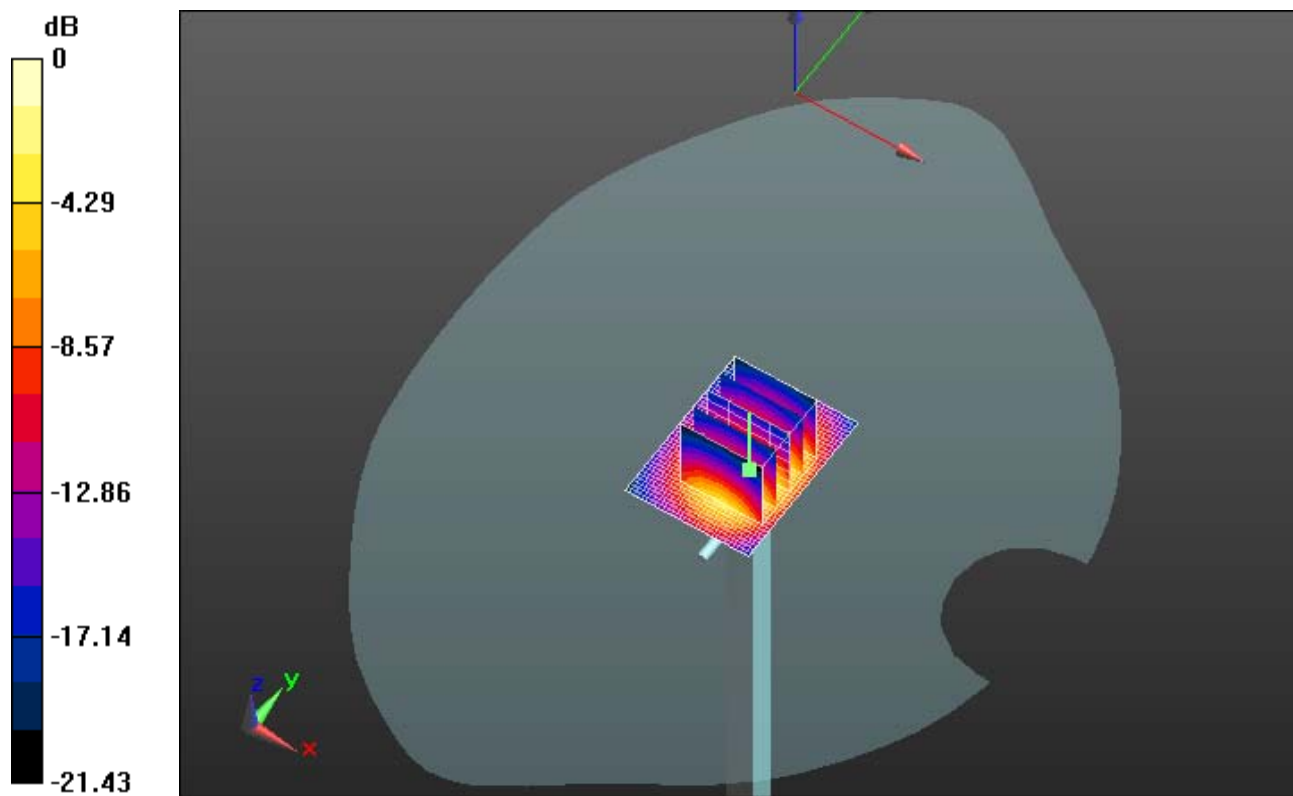
Reference Value = 209.6 V/m; Power Drift = 0.0037 dB

Peak SAR (extrapolated) = 108.90

SAR(1 g) = 55 mW/g; SAR(10 g) = 26 mW/g

Maximum value of SAR (measured) = 71.819 mW/g

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0 dB = 71.820mW/g = 37.12 dB mW/g

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Date/Time: 8/9/2012 4:17:44 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_08_09_12_Amb_Tem_23.6_Liq_Tem_22.7C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.803 \text{ mho/m}$; $\epsilon_r = 34.486$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.89, 4.89, 4.89); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

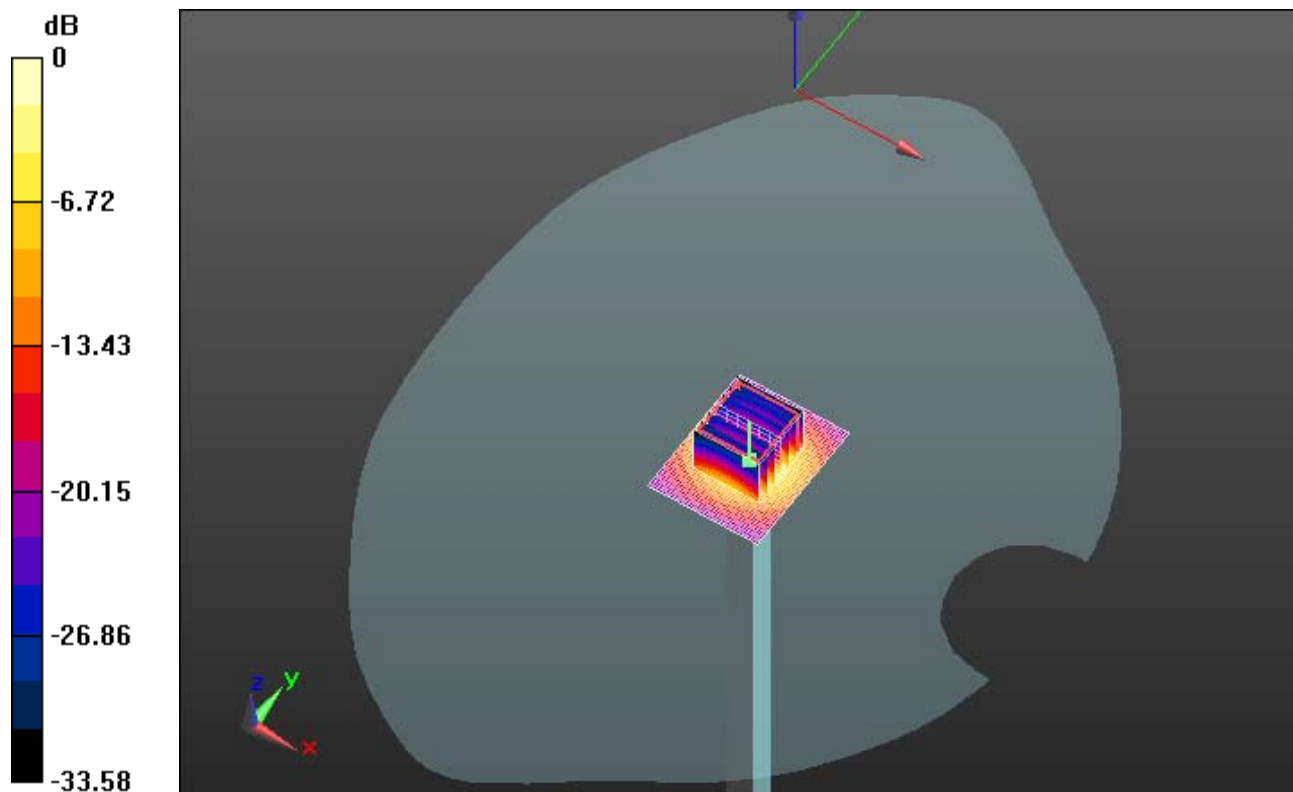
System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 195.4 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 207.5 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 325.10

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SAR(1 g) = 86.1 mW/g; SAR(10 g) = 24.8 mW/g
Maximum value of SAR (measured) = 180.6 mW/g



0 dB = 180.6mW/g = 45.13 dB mW/g

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Date/Time: 8/15/2012 10:34:18 AM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_08_15_12_Amb_Tem_23.3_Liq_Tem_22.3C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.78$ mho/m; $\epsilon_r = 34.605$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.89, 4.89, 4.89); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

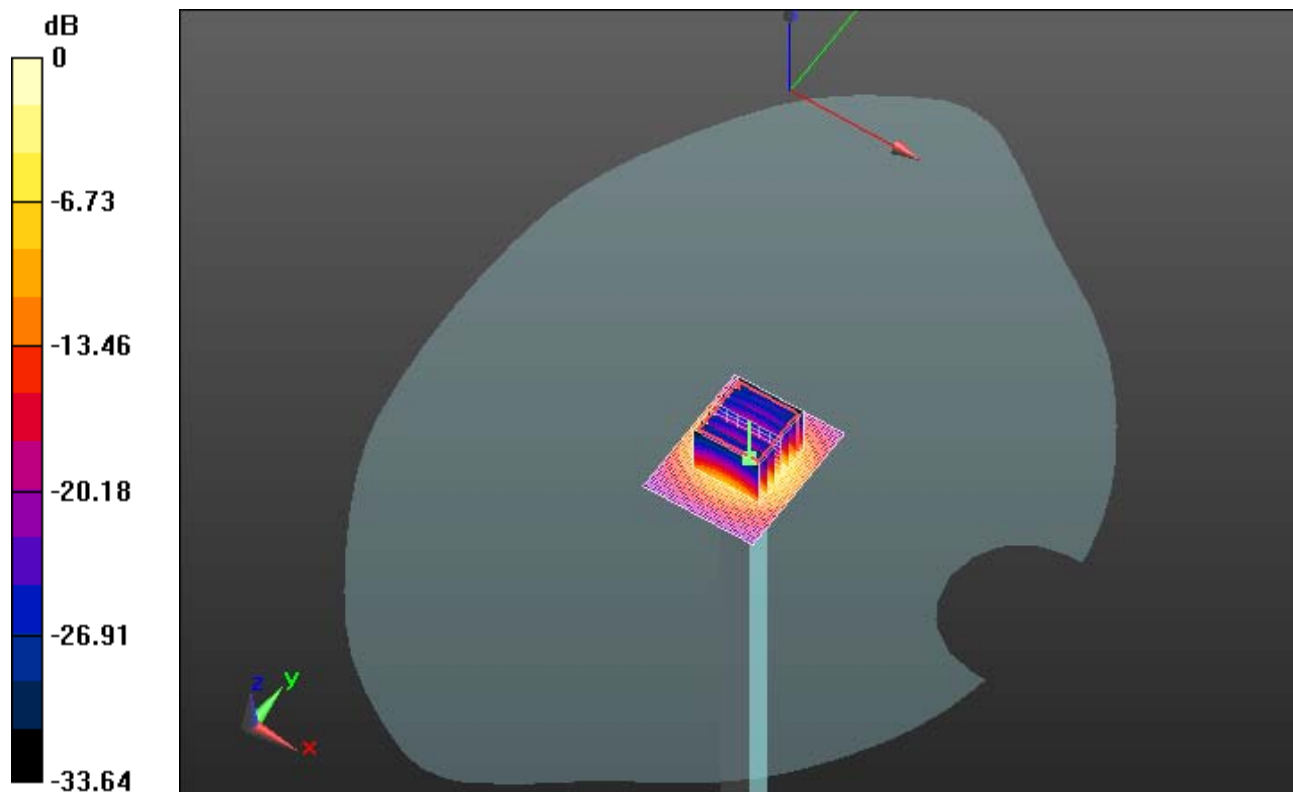
System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 193.8 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 199.6 V/m; Power Drift = 0.27 dB
Peak SAR (extrapolated) = 353.40

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SAR(1 g) = 88.2 mW/g; SAR(10 g) = 25.2 mW/g
Maximum value of SAR (measured) = 183.1 mW/g



0 dB = 183.1mW/g = 45.25 dB mW/g

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Date/Time: 8/9/2012 6:20:06 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5500

MHz_08_09_12_Amb_Tem_24.0_Liq_Tem_22.8C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW-5GHz; Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.035$ mho/m; $\epsilon_r = 34.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.38, 4.38, 4.38); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 197.0 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

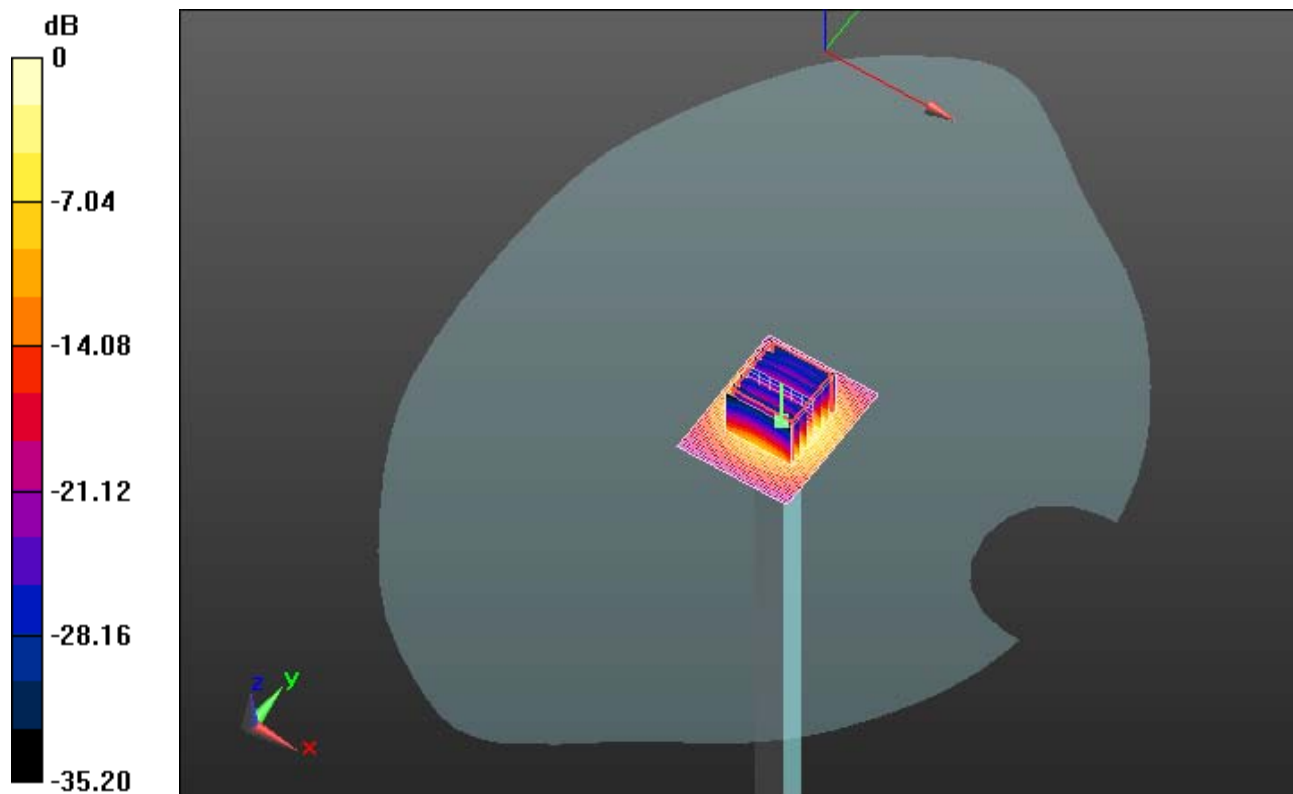
Reference Value = 195.2 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 334.60

SAR(1 g) = 84.6 mW/g; SAR(10 g) = 24.4 mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Maximum value of SAR (measured) = 173.3 mW/g



0 dB = 173.3mW/g = 44.78 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/15/2012 10:54:11 AM

Test Laboratory: RIM Testing Services

Dipole Validation_5500

MHz_08_15_12_Amb_Tem_23.6_Liq_Tem_22.3C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW-5GHz; Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.062$ mho/m; $\epsilon_r = 34.035$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.38, 4.38, 4.38); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 193.2 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

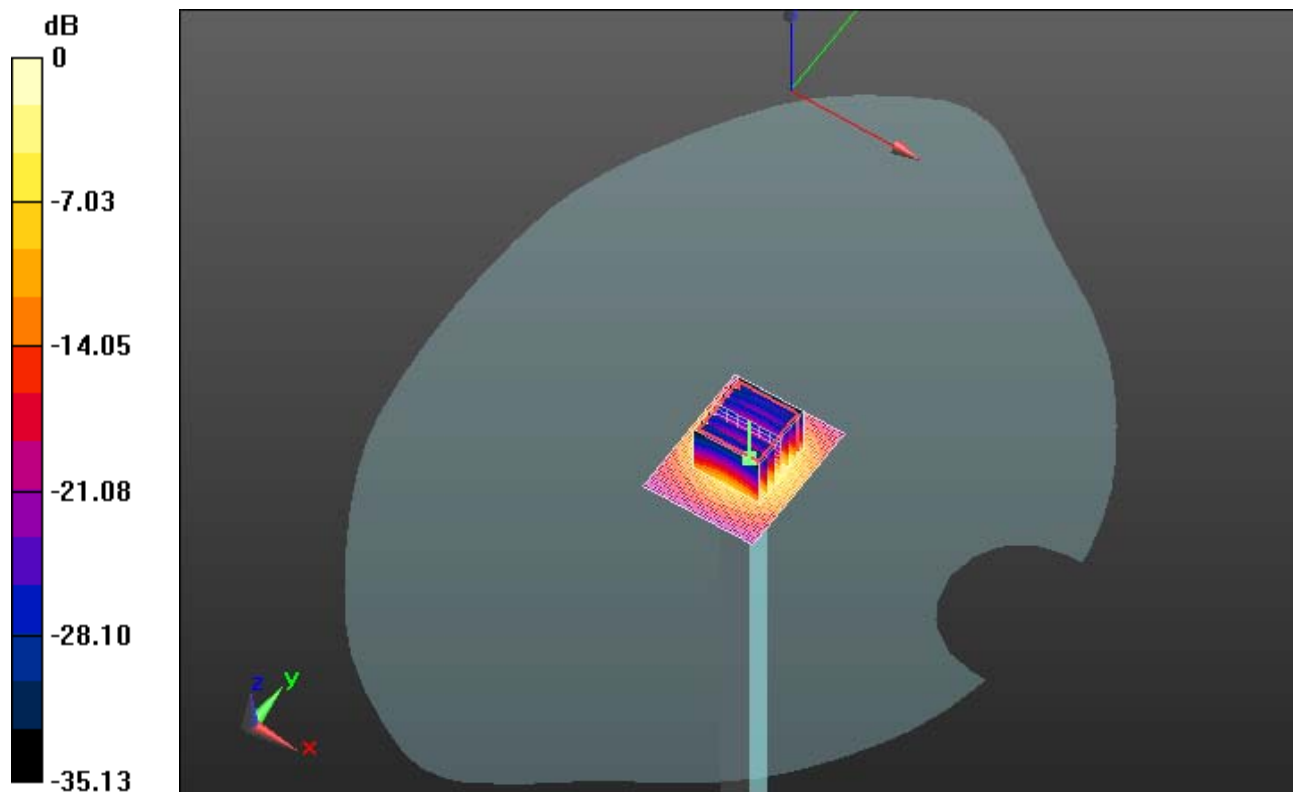
Pin=1000mW, f=5500 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 195.0 V/m; Power Drift = -0.0018 dB

Peak SAR (extrapolated) = 336.60

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

SAR(1 g) = 83.9 mW/g; SAR(10 g) = 24.2 mW/g
Maximum value of SAR (measured) = 175.0 mW/g



0 dB = 175.0mW/g = 44.86 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/9/2012 7:32:37 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5800

MHz_08_09_12_Amb_Tem_24.1_Liq_Tem_22.8C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW-5GHz; Frequency: 5800 MHz

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.371 \text{ mho/m}$; $\epsilon_r = 33.692$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.17, 4.17, 4.17); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 209.1 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

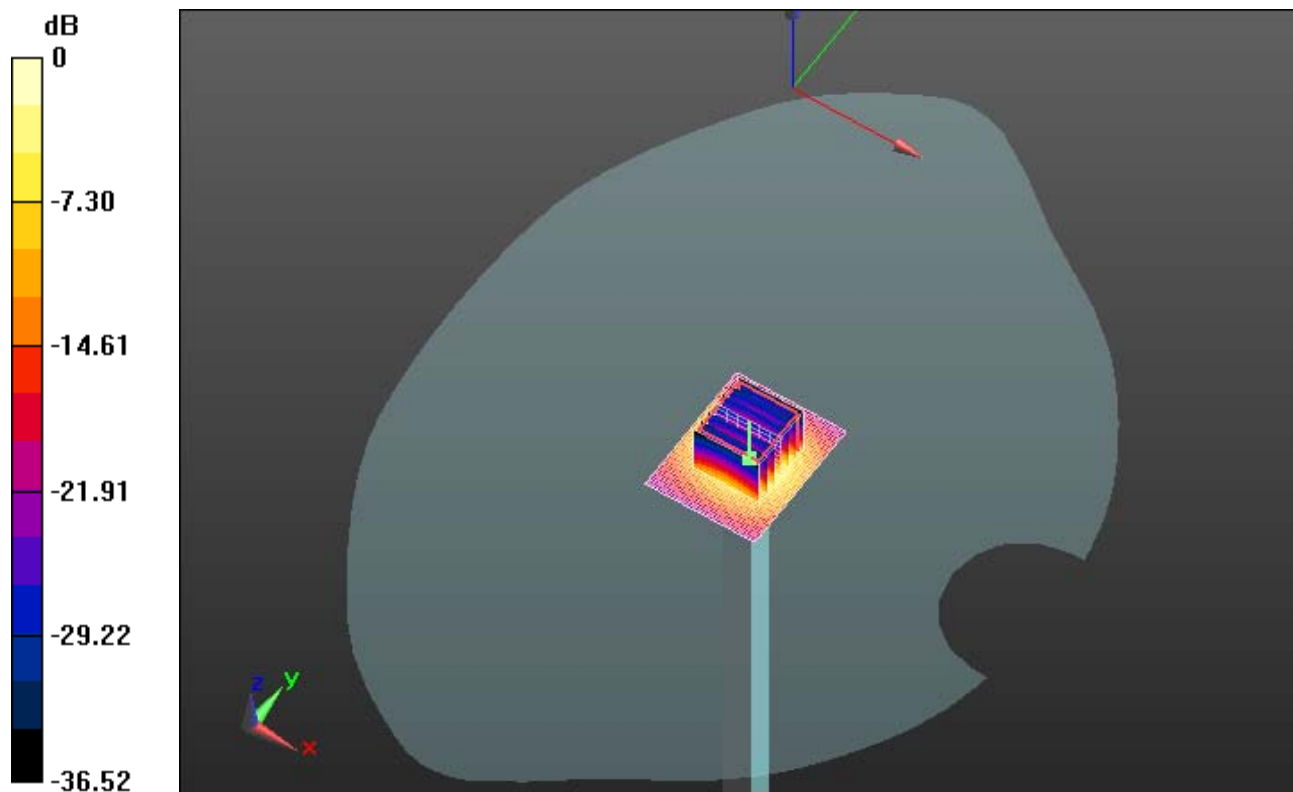
Pin=1000mW, f=5800 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 195.7 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 352.00

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

SAR(1 g) = 85.8 mW/g; SAR(10 g) = 24.4 mW/g
Maximum value of SAR (measured) = 179.1 mW/g



0 dB = 179.1mW/g = 45.06 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/13/2012 3:01:18 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5800

MHz_08_13_12_Amb_Tem_23.4_Liq_Tem_22.7C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: CW-5GHz; Frequency: 5800 MHz

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.474 \text{ mho/m}$; $\epsilon_r = 34.197$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.17, 4.17, 4.17); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 206.7 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

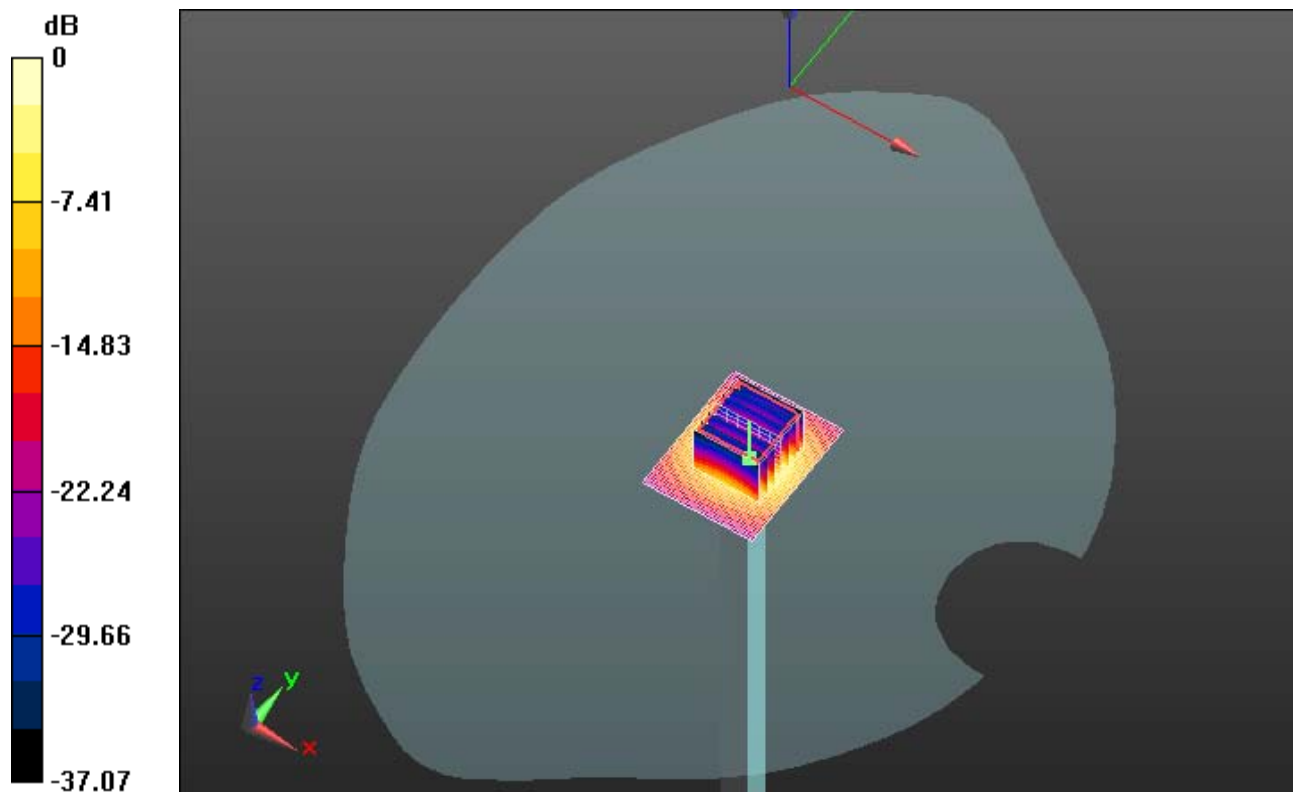
Pin=1000mW, f=5800 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 190.4 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 362.00

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

SAR(1 g) = 86 mW/g; SAR(10 g) = 24.6 mW/g
 Maximum value of SAR (measured) = 180.6 mW/g



0 dB = 180.6mW/g = 45.13 dB mW/g