

	Document Appendix A for the BlackBerry® Smartphone Model RFS121LW SAR Report			Page 1(19)
Author Data Andrew Becker	Dates of Test Mar 04 – May 13, 2013	Test Report No RTS-6036-1305-06	FCC ID: L6ARFS120LW	IC 2503A-RFS120LW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 3/13/2013 6:42:24 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_03_13_13_Amb_Tem_23.9_Liq_Tem_21.8C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d043

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 40.507$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.19, 6.19, 6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 111.6 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 8.98 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (interpolated) = 10.3 W/kg

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

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

Reference Value = 111.6 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 8.91 W/kg; SAR(10 g) = 5.85 W/kg

Maximum value of SAR (measured) = 10.4 W/kg

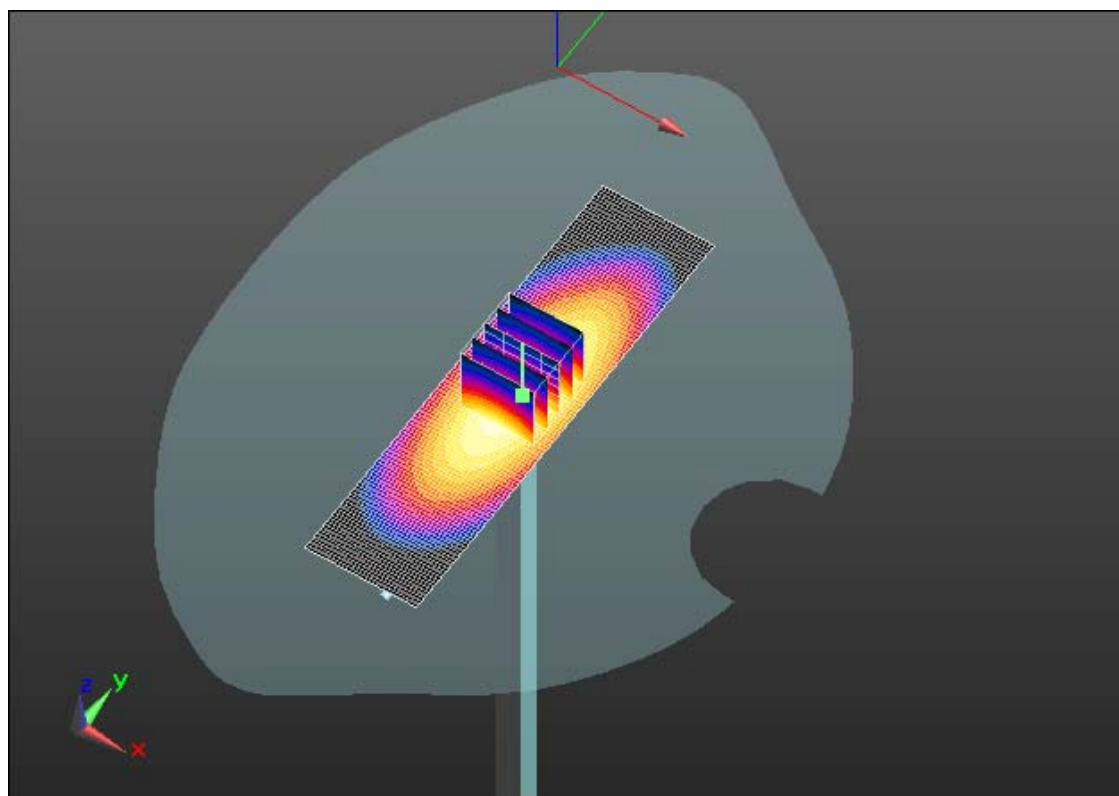
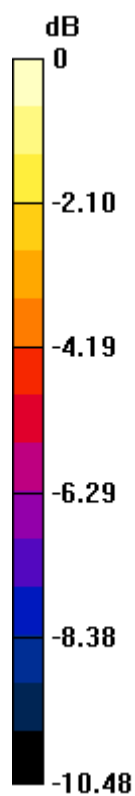
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 13, 2013

Test Report No
RTS-6036-1305-06

FCC ID:
L6ARFS120LW

IC
2503A-RFS120LW



0 dB = 10.4 W/kg = 10.17 dBW/kg

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Date/Time: 3/15/2013 1:58:34 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_03_15_13_Amb_Tem_24.2_Liq_Tem_21.2C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d043

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 40.975$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.19, 6.19, 6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 111.7 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 9.27 W/kg; SAR(10 g) = 6.3 W/kg

Maximum value of SAR (interpolated) = 10.6 W/kg

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

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

Reference Value = 111.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 13.5 W/kg

SAR(1 g) = 9.17 W/kg; SAR(10 g) = 6.03 W/kg

Maximum value of SAR (measured) = 10.7 W/kg

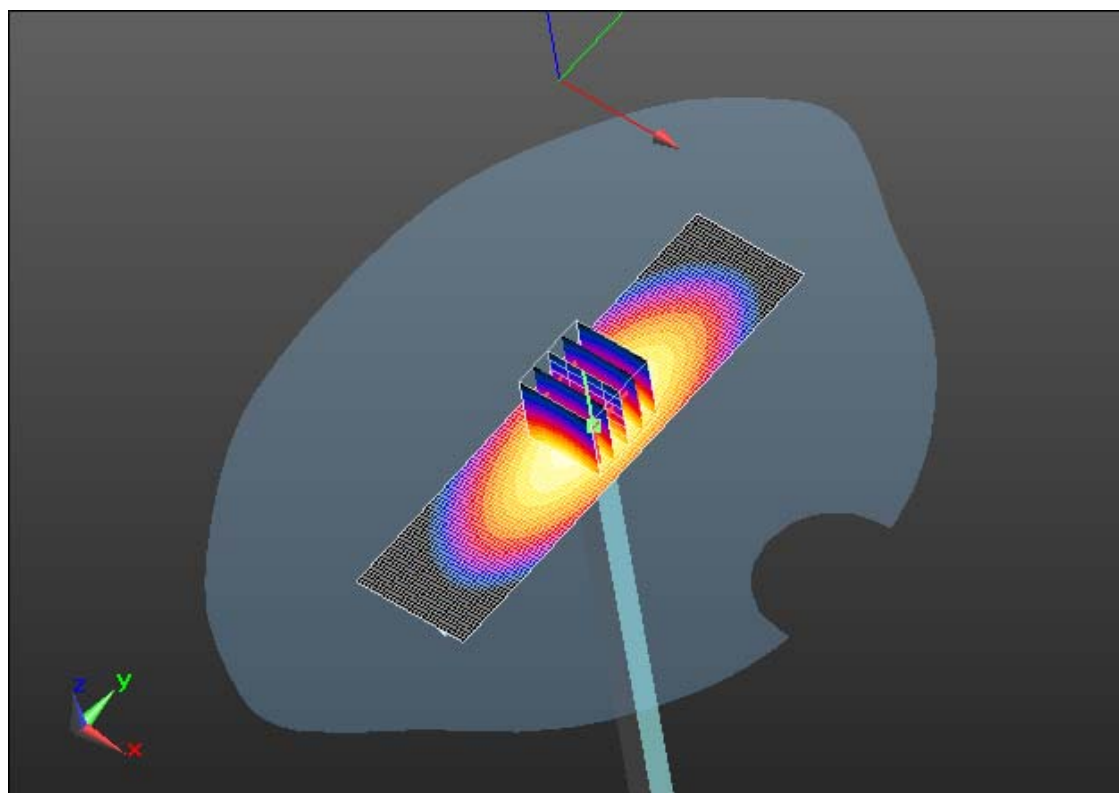
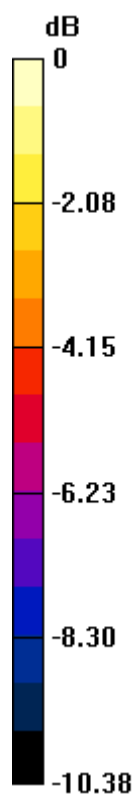
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 13, 2013

Test Report No
RTS-6036-1305-06

FCC ID:
L6ARFS120LW

IC
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0 dB = 10.7 W/kg = 10.29 dBW/kg

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Author Data Andrew Becker	Dates of Test Mar 04 – May 13, 2013	Test Report No RTS-6036-1305-06	FCC ID: L6ARFS120LW	IC 2503A-RFS120LW

Date/Time: 3/19/2013 12:31:37 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_03_19_13_Amb_Tem_23.5_Liq_Tem_21.4C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d043

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 43.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.19, 6.19, 6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 108.9 V/m; Power Drift = -0.14 dB

Fast SAR: SAR(1 g) = 8.72 W/kg; SAR(10 g) = 5.92 W/kg

Maximum value of SAR (interpolated) = 9.96 W/kg

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

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

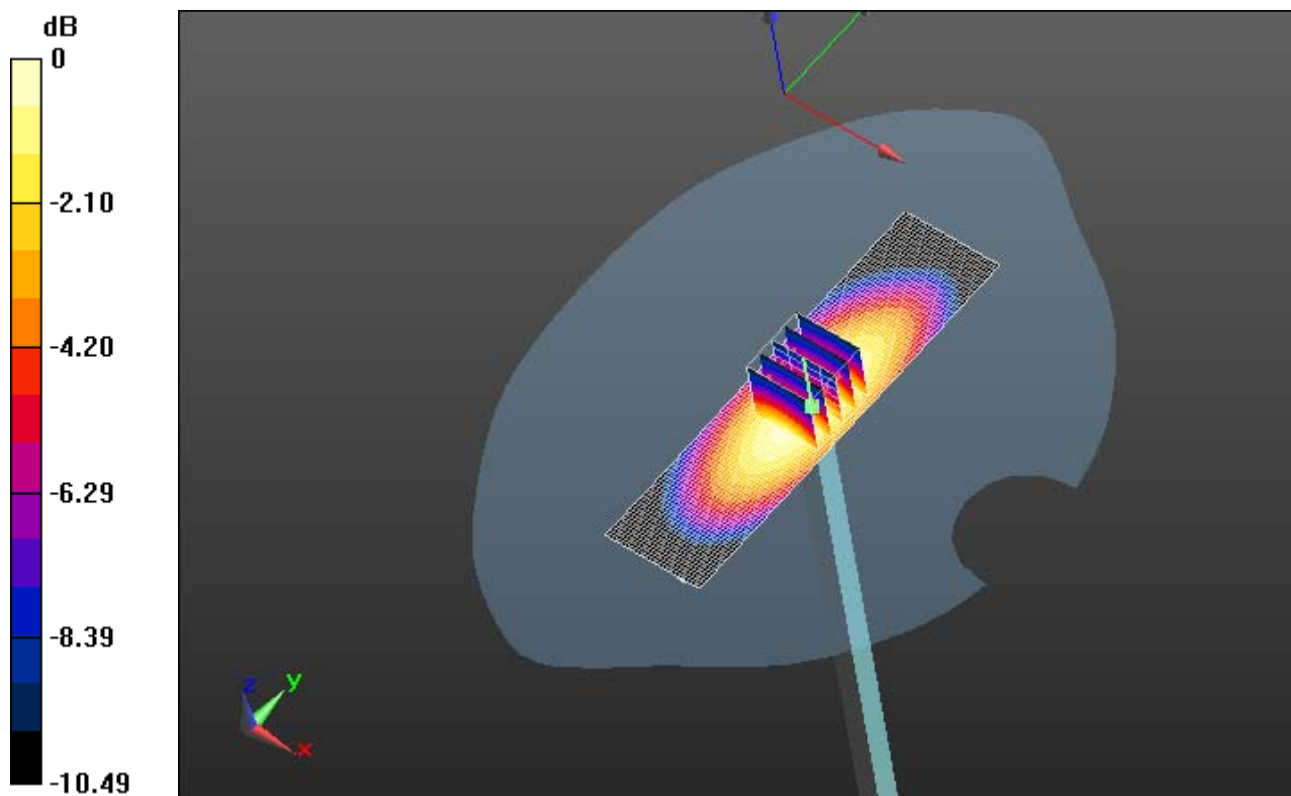
Reference Value = 108.9 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 8.64 W/kg; SAR(10 g) = 5.68 W/kg

Maximum value of SAR (measured) = 10.1 W/kg

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0 dB = 10.1 W/kg = 10.04 dBW/kg

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Date/Time: 3/11/2013 12:59:38 AM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_03_11_13_Amb_Tem_24.2_Liq_Tem_22.0C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d075

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 38.529$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 179.4 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 38.8 W/kg; SAR(10 g) = 20.7 W/kg

Maximum value of SAR (interpolated) = 43.9 W/kg

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

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

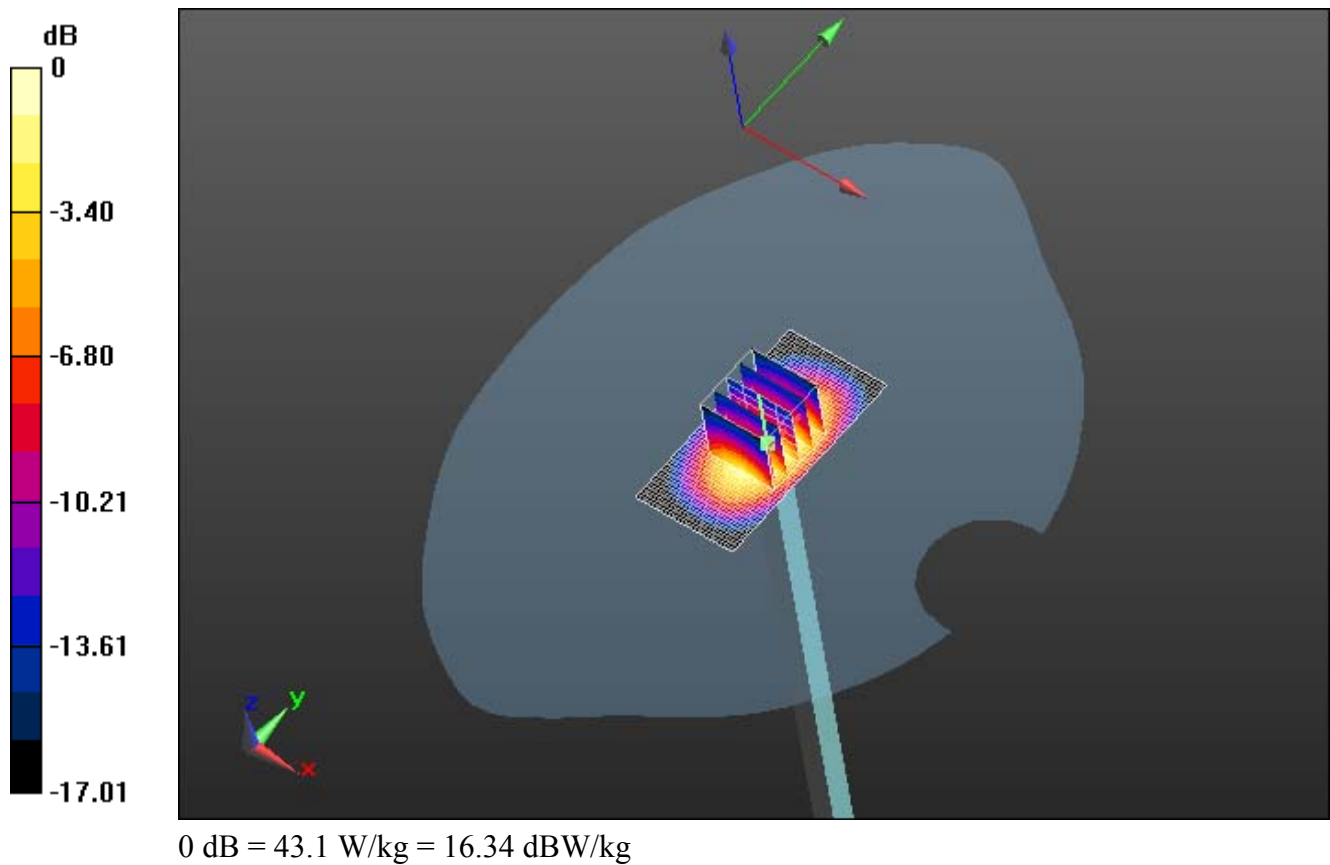
Reference Value = 179.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 69.3 W/kg

SAR(1 g) = 38.3 W/kg; SAR(10 g) = 20.1 W/kg

Maximum value of SAR (measured) = 43.1 W/kg

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Date/Time: 3/24/2013 1:47:25 AM

Test Laboratory: RIM Testing Services

**DipoleValidation_1900MHz_03_24_13_Amb_Tem_23.6C_Liq_Tem_21.8
C**

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d075

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.423 \text{ S/m}$; $\epsilon_r = 38.343$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 175.8 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 38.4 W/kg; SAR(10 g) = 20.5 W/kg

Maximum value of SAR (interpolated) = 43.4 W/kg

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

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

Reference Value = 175.8 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 70.3 W/kg

SAR(1 g) = 38.2 W/kg; SAR(10 g) = 19.8 W/kg

Maximum value of SAR (measured) = 42.8 W/kg

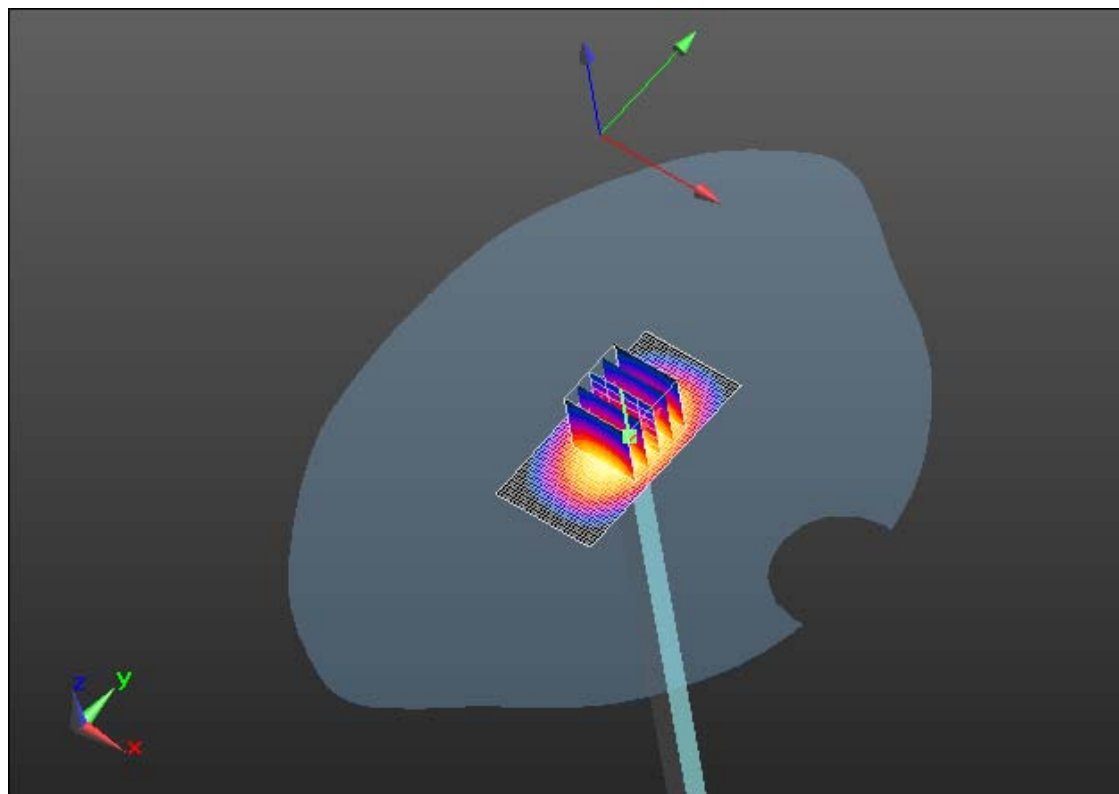
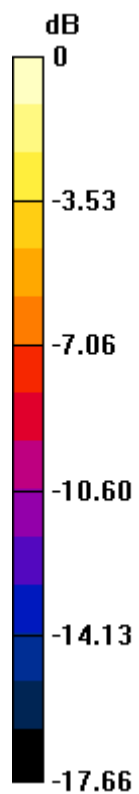
Author Data
Andrew Becker

Dates of Test
Mar 04 – May 13, 2013

Test Report No
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FCC ID:
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0 dB = 42.8 W/kg = 16.31 dBW/kg

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Date/Time: 4/2/2013 5:20:39 AM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_04_02_13_Amb_Tem_24.0C_Liq_Tem_22.4 C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d075

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.456$ S/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Interpolated
grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 174.4 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 38.2 W/kg; SAR(10 g) = 20.4 W/kg

Maximum value of SAR (interpolated) = 43.1 W/kg

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

0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

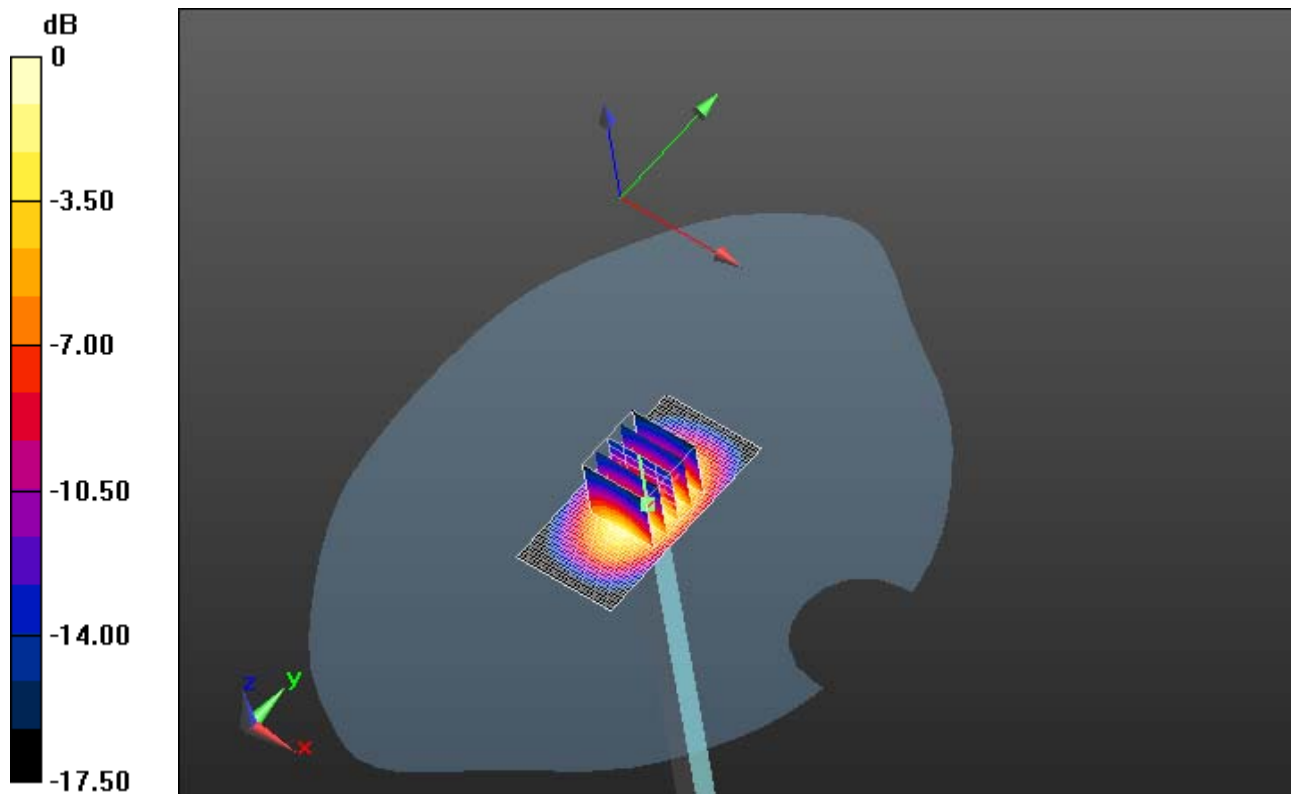
Reference Value = 174.4 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 68.5 W/kg

SAR(1 g) = 37.3 W/kg; SAR(10 g) = 19.4 W/kg

Maximum value of SAR (measured) = 42.0 W/kg

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0 dB = 42.0 W/kg = 16.23 dBW/kg

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Date/Time: 4/8/2013 12:58:08 AM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_04_08_13_Amb_Tem_23.4C_Liq_Tem_21.9 C

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 38.283$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Interpolated
grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 177.4 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 37.3 W/kg; SAR(10 g) = 19.9 W/kg

Maximum value of SAR (interpolated) = 42.0 W/kg

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

0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

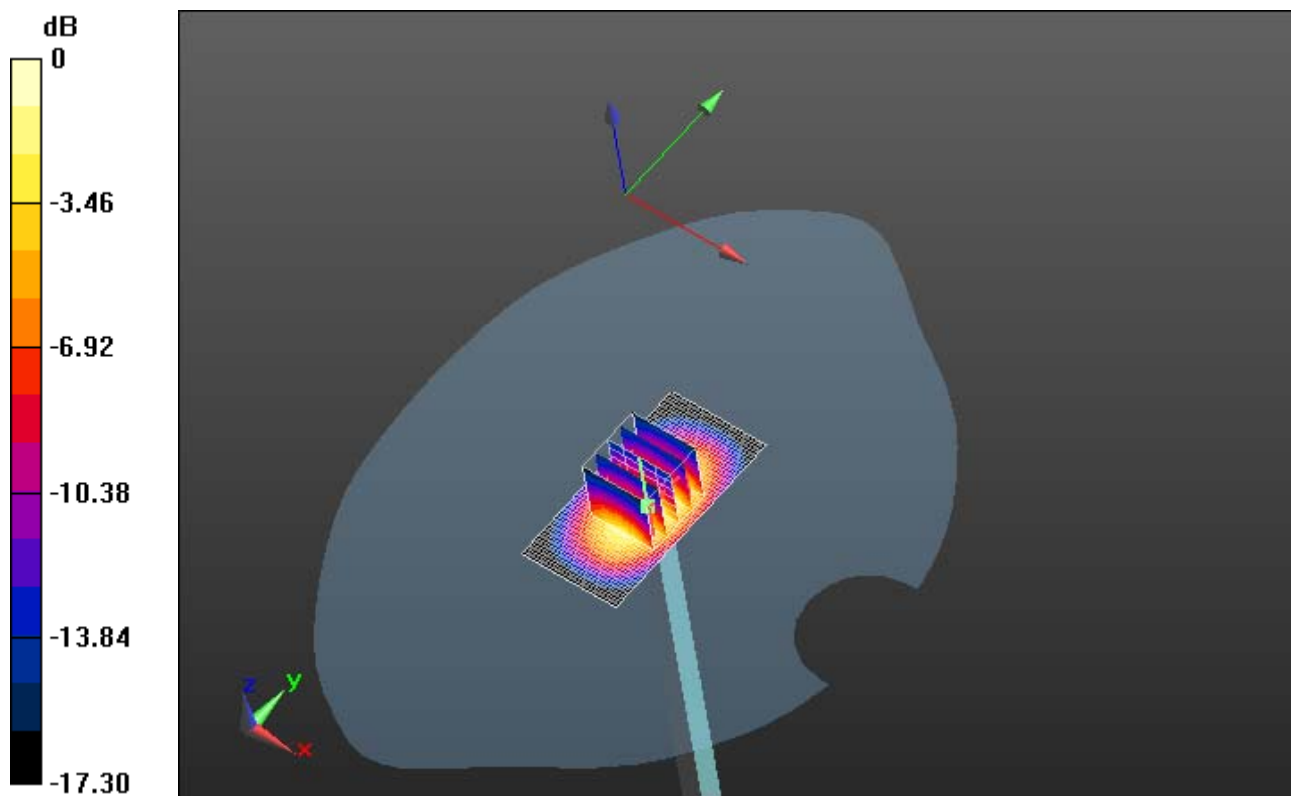
Reference Value = 177.4 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 66.7 W/kg

SAR(1 g) = 36.8 W/kg; SAR(10 g) = 19.3 W/kg

Maximum value of SAR (measured) = 41.5 W/kg

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0 dB = 41.5 W/kg = 16.18 dBW/kg

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Date/Time: 5/13/2013 1:06:25 AM

Test Laboratory: RIM Testing Services

**DipoleValidation_1900MHz_05_13_13_Amb_Tem_23.6C_Liq_Tem_21.8
C**

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.152$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 191.3 V/m ; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 37.3 W/kg ; SAR(10 g) = 19.7 W/kg

Maximum value of SAR (interpolated) = 46.9 W/kg

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

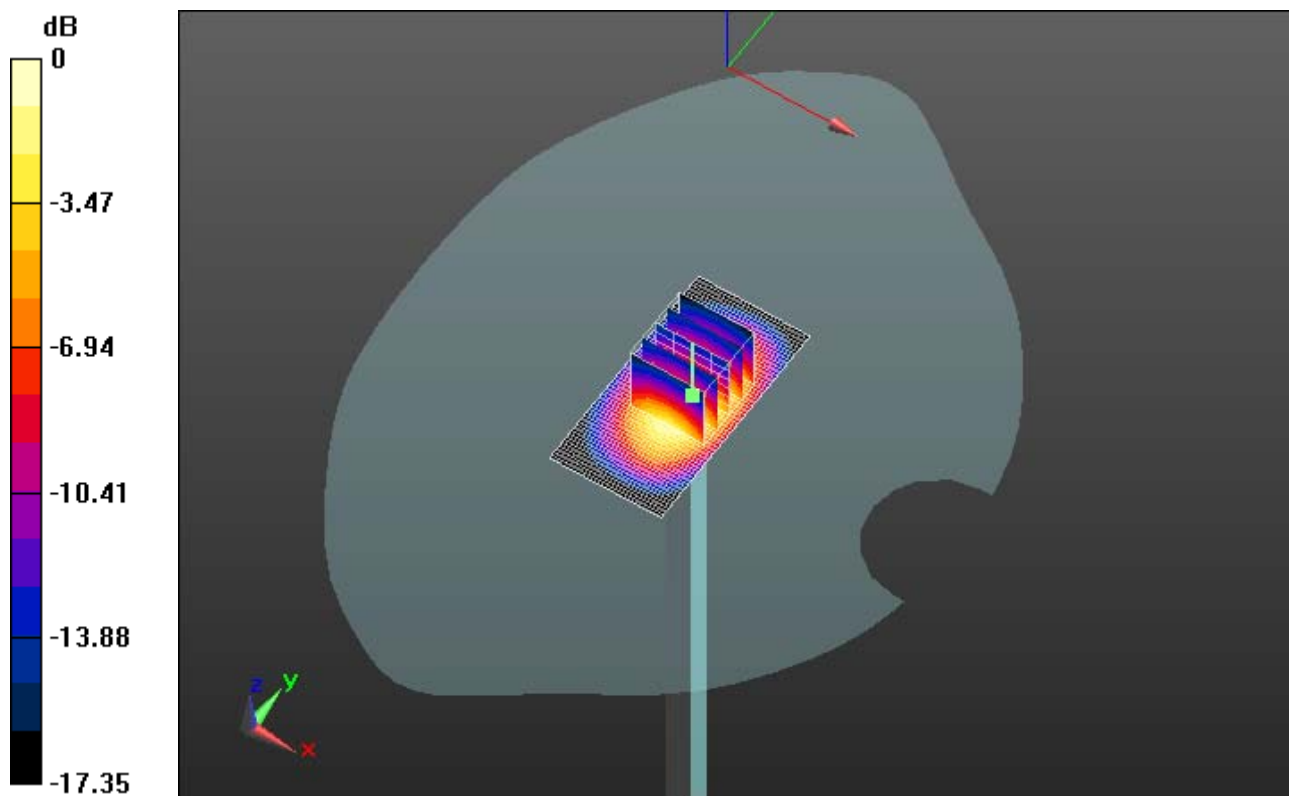
Reference Value = 191.3 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 65.1 W/kg

SAR(1 g) = 36.7 W/kg ; SAR(10 g) = 19.3 W/kg

Maximum value of SAR (measured) = 46.6 W/kg

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0 dB = 46.6 W/kg = 16.68 dBW/kg

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Date/Time: 3/21/2013 12:16:26 AM

Test Laboratory: RIM Testing Services

**DipoleValidation_2450MHz_03_21_13_Amb_Tem_23.5C_Liq_Tem_21.6
C**

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:791

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.837$ S/m; $\epsilon_r = 37.694$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

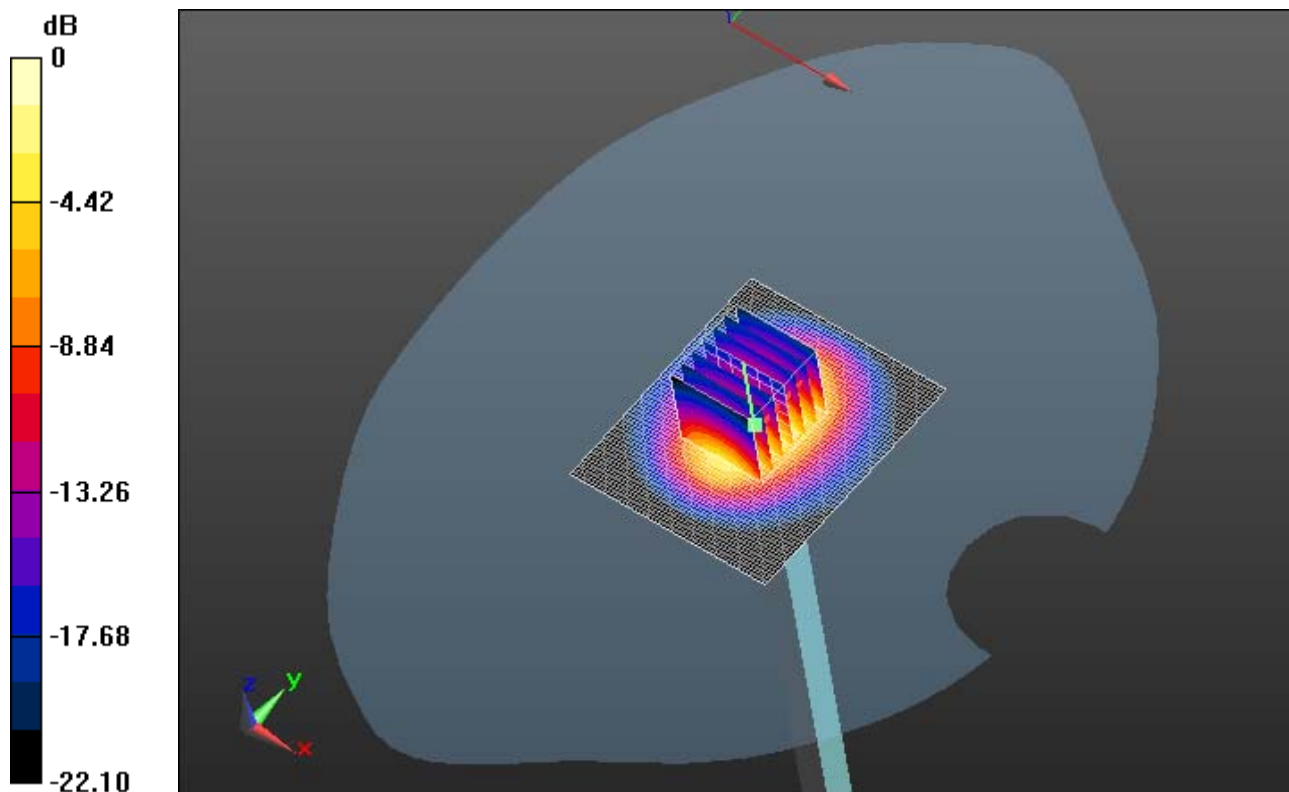
- Probe: ES3DV3 - SN3225; ConvF(4.65, 4.65, 4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**System Performance Check at Frequencies above 1 GHz/d=10mm,
Pin=1000 mW, dist=3.0mm (ES-Probe)/Area Scan (61x71x1):** Interpolated
grid: $dx=1.200$ mm, $dy=1.200$ mm
Reference Value = 202.6 V/m; Power Drift = -0.12 dB
Fast SAR: SAR(1 g) = 51.9 W/kg; SAR(10 g) = 23.1 W/kg
Maximum value of SAR (interpolated) = 71.2 W/kg

**System Performance Check at Frequencies above 1 GHz/d=10mm,
Pin=1000 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube
0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 202.6 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 101 W/kg

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SAR(1 g) = 51.3 W/kg; SAR(10 g) = 24.2 W/kg
 Maximum value of SAR (measured) = 66.7 W/kg



0 dB = 66.7 W/kg = 18.24 dBW/kg