## APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

# EDGE/GPRS 850

Date: 6/25/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 ( 3 slots); Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; $\sigma$ = 0.956 S/m; $\varepsilon_r$ = 52.829; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

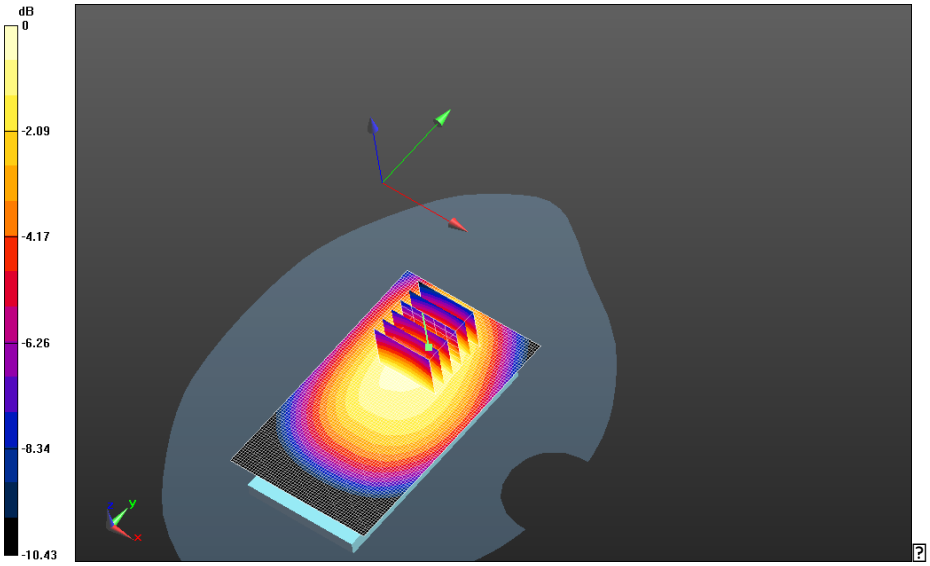
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.788 V/m; **Power Drift = -0.030 dB**

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (26x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.788 V/m; **Power Drift = -0.030 dB**

**Averaged SAR: SAR(1g) = 0.652 W/kg; SAR(10g) = 0.483 W/kg**
Maximum value of SAR (interpolated) = 0.858 W/kg

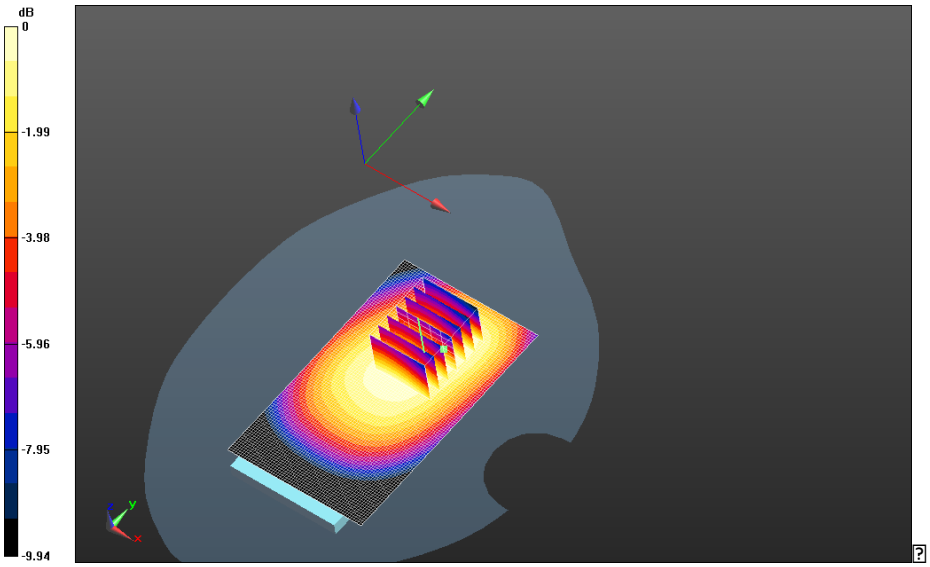



0 dB = 0.723 W/kg = -1.41 dBW/kg

**Body Worn MSL - GPRS 850/15mm Device Front - GPRS850_chan190_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.657 V/m; **Power Drift = 0.031 dB**

**Body Worn MSL - GPRS 850/15mm Device Front - GPRS850_chan190_amb_temp_23.4C_liq_temp_22.3C/Zoom Scan (26x31x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.657 V/m; **Power Drift = 0.031 dB**

**Averaged SAR: SAR(1g) = 0.586 W/kg; SAR(10g) = 0.448 W/kg**
Maximum value of SAR (interpolated) = 0.750 W/kg

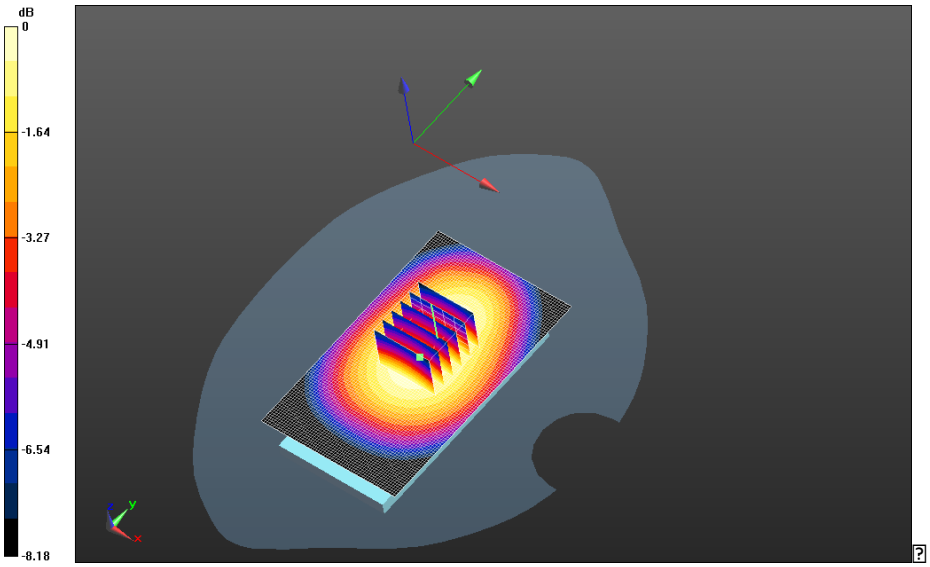



0 dB = 0.723 W/kg = -1.41 dBW/kg

**Body Worn MSL - GPRS 850/Holster Device Back - GPRS850_chan190_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.784 V/m; **Power Drift = -0.080 dB**

**Body Worn MSL - GPRS 850/Holster Device Back - GPRS850_chan190_amb_temp_23.0C_liq_temp_22.0C/Zoom Scan (26x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 25.784 V/m; **Power Drift = -0.080 dB**

**Averaged SAR: SAR(1g) = 0.550 W/kg; SAR(10g) = 0.421 W/kg**
Maximum value of SAR (interpolated) = 0.697 W/kg




0 dB = 0.644 W/kg = -1.91 dBW/kg

Date: 6/28/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671**

## Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 ( 3 slots);
Frequency: 836.8 MHz
Medium Parameters used: f=836.8 MHz; $\sigma$ = 0.964 S/m; $\varepsilon_r$ = 53.124; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

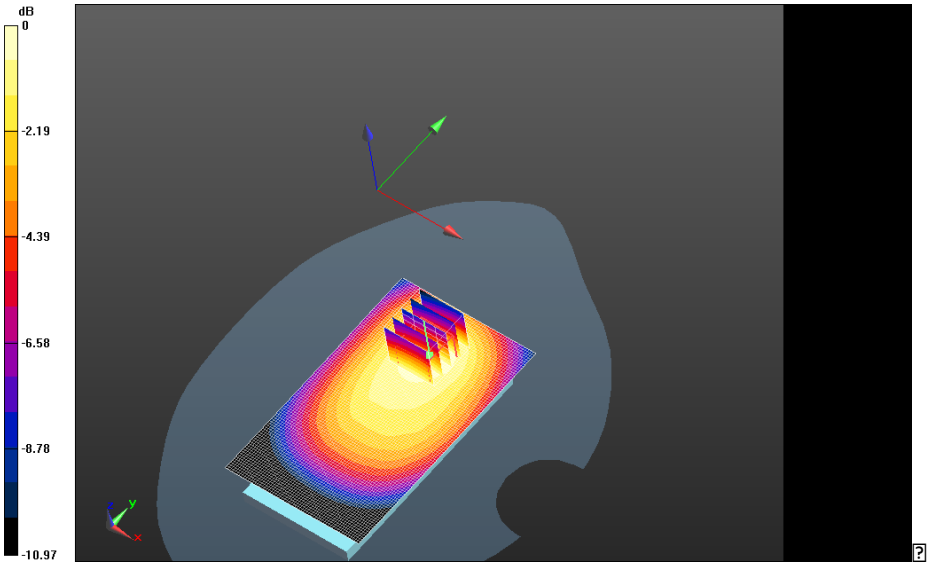
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.549 W/kg

**Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.863 V/m; **Power Drift = 0.067 dB**

**Averaged SAR: SAR(1g) = 0.488 W/kg; SAR(10g) = 0.352 W/kg**
Maximum value of SAR (interpolated) = 0.662 W/kg




0 dB = 0.552 W/kg = -2.58 dBW/kg

# UMTS Band V

Date: 6/25/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - UMTS band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; $\sigma$ = 0.955 S/m; $\varepsilon_r$ = 52.833; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

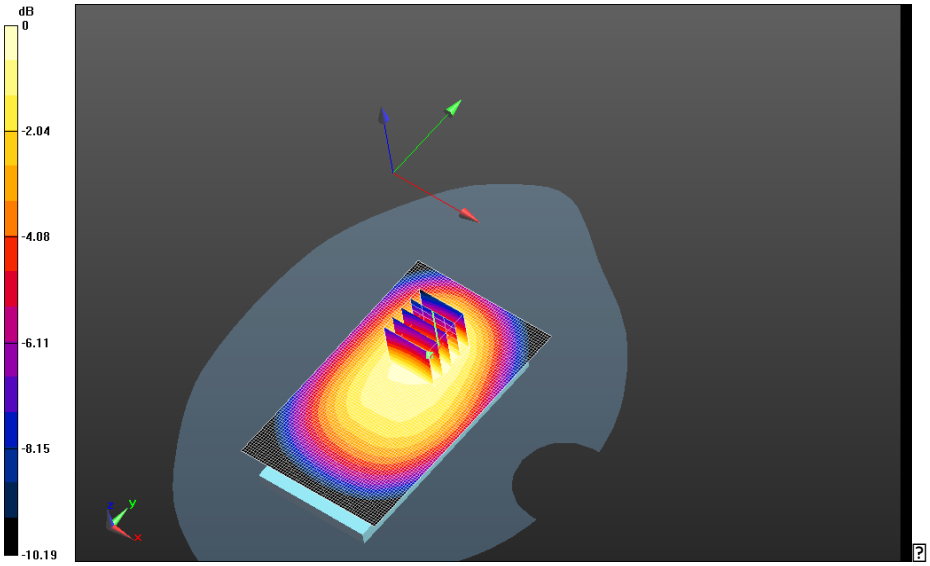
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.703 V/m; **Power Drift = -0.0058 dB**

**Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 19.703 V/m; **Power Drift = -0.0058 dB**

**Averaged SAR: SAR(1g) = 0.379 W/kg; SAR(10g) = 0.278 W/kg**
Maximum value of SAR (interpolated) = 0.501 W/kg

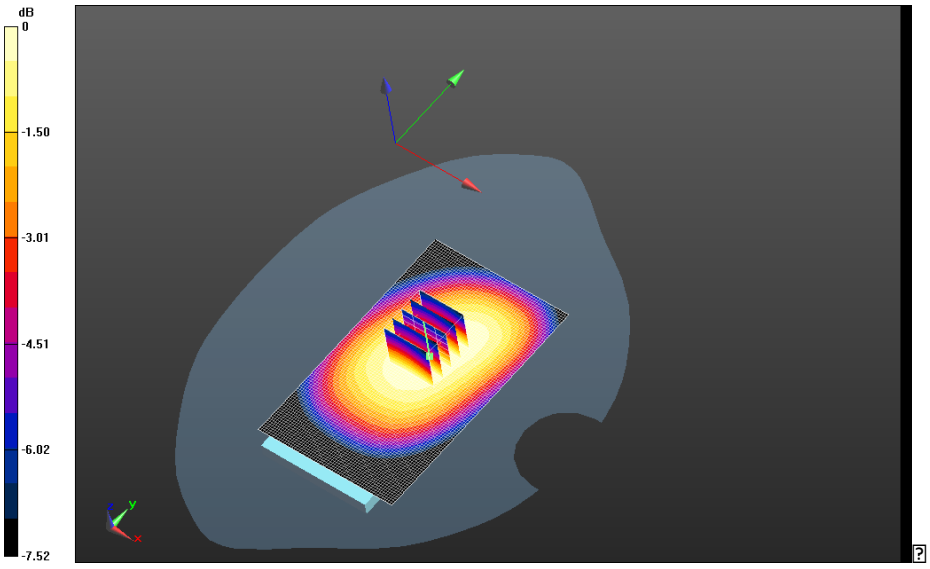



0 dB = 0.421 W/kg = -3.76 dBW/kg

**Body Worn MSL - UMTS band V/15mm Device Front - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.263 V/m; **Power Drift = -0.014 dB**

**Body Worn MSL - UMTS band V/15mm Device Front - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.263 V/m; **Power Drift = -0.014 dB**

**Averaged SAR: SAR(1g) = 0.337 W/kg; SAR(10g) = 0.260 W/kg**
Maximum value of SAR (interpolated) = 0.420 W/kg

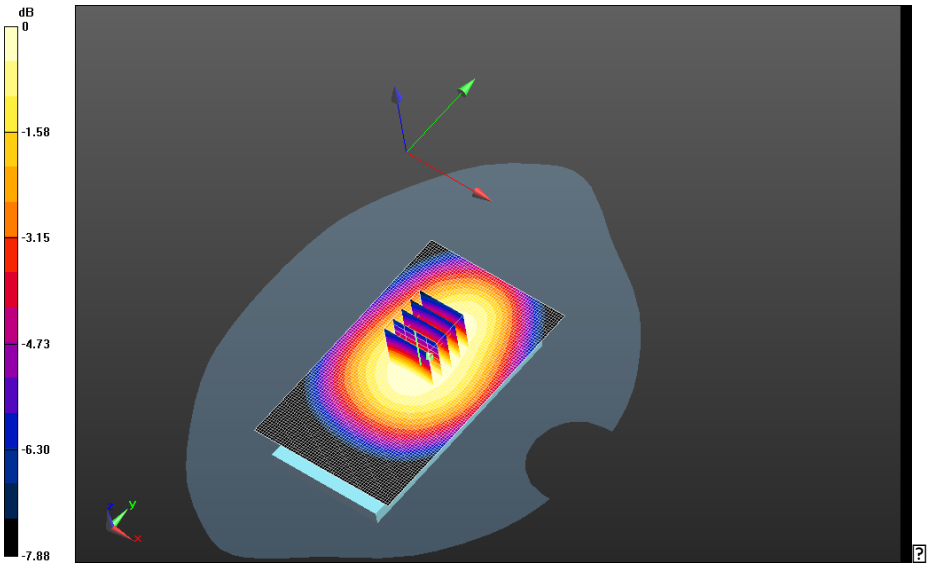



0 dB = 0.421 W/kg = -3.76 dBW/kg

**Body Worn MSL - UMTS band V/Holster Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.369 V/m; **Power Drift = 0.019 dB**

**Body Worn MSL - UMTS band V/Holster Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.369 V/m; **Power Drift = 0.019 dB**

**Averaged SAR: SAR(1g) = 0.280 W/kg; SAR(10g) = 0.215 W/kg**
Maximum value of SAR (interpolated) = 0.349 W/kg




0 dB = 0.368 W/kg = -4.34 dBW/kg

Date: 6/28/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671**

## Configuration: Body Worn MSL - UMTS band V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V;
Frequency: 836.4 MHz
Medium Parameters used: f=836.4 MHz; $\sigma$ = 0.963 S/m; $\varepsilon_r$ = 53.128; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

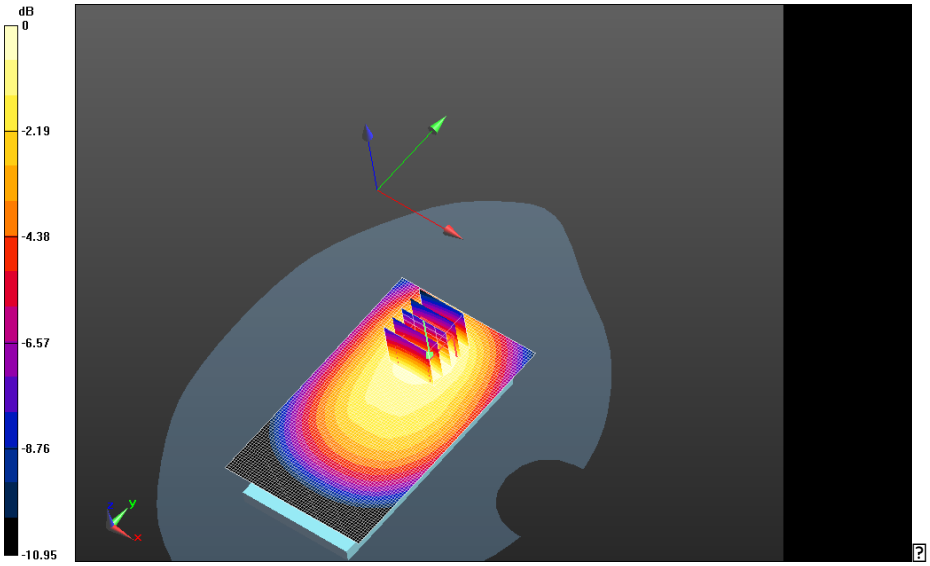
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.416 W/kg

**Body Worn MSL - UMTS band V/15mm Device Back - UMTS_band V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.000 V/m; **Power Drift = 0.046 dB**

**Averaged SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.263 W/kg**
Maximum value of SAR (interpolated) = 0.489 W/kg




0 dB = 0.409 W/kg = -3.88 dBW/kg

# CDMA 800 BC10

Date: 6/27/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - CDMA 800 BC10

Communication System: CDMA 800; Communication System Band: CDMA 2000 BC 10;
Frequency: 820.5 MHz
Medium Parameters used: f=820.5 MHz; $\sigma$ = 0.946 S/m; $\varepsilon_r$ = 53.277; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

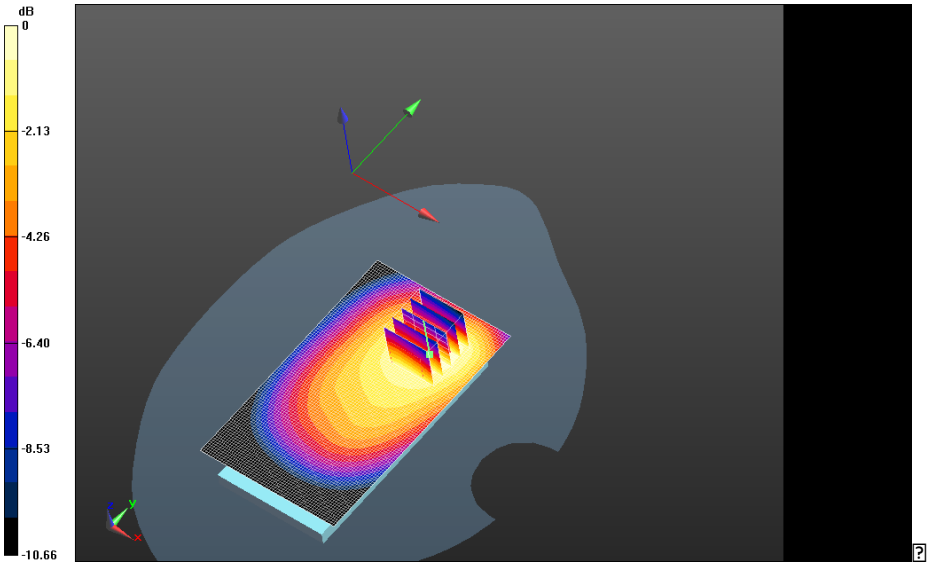
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - CDMA 800 BC10/15mm Device Back - CDMA 800 BC10_chan580_amb_temp_22.8C_liq_temp_22.3C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.941 V/m; **Power Drift = 0.036 dB**

**Body Worn MSL - CDMA 800 BC10/15mm Device Back - CDMA 800 BC10_chan580_amb_temp_22.8C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 21.941 V/m; **Power Drift = 0.036 dB**

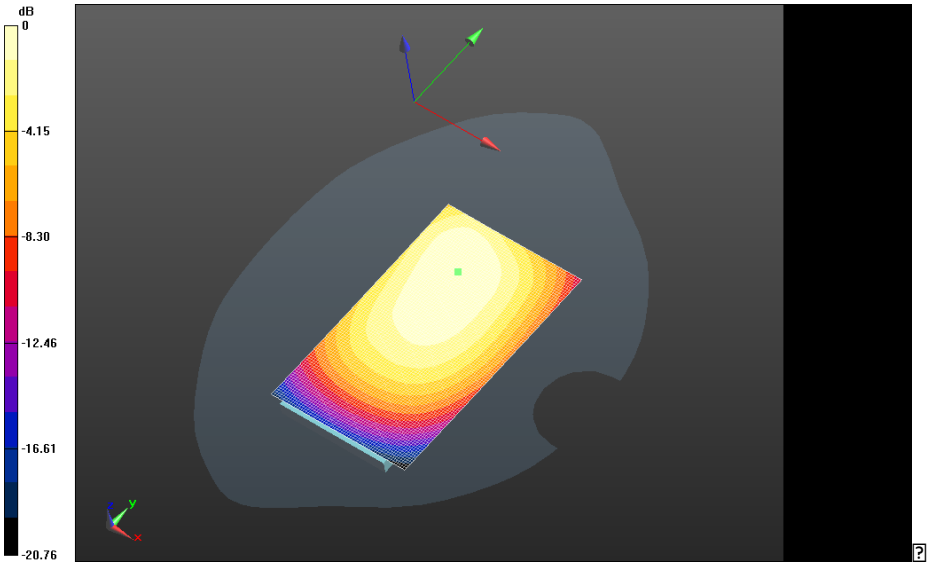
**Averaged SAR: SAR(1g) = 0.594 W/kg; SAR(10g) = 0.424 W/kg**
Maximum value of SAR (interpolated) = 0.804 W/kg




0 dB = 0.679 W/kg = -1.68 dBW/kg

**Body Worn MSL - CDMA 800 BC10/15mm Device Front - CDMA 800 BC10_chan580_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.638 V/m; **Power Drift = -0.013 dB**

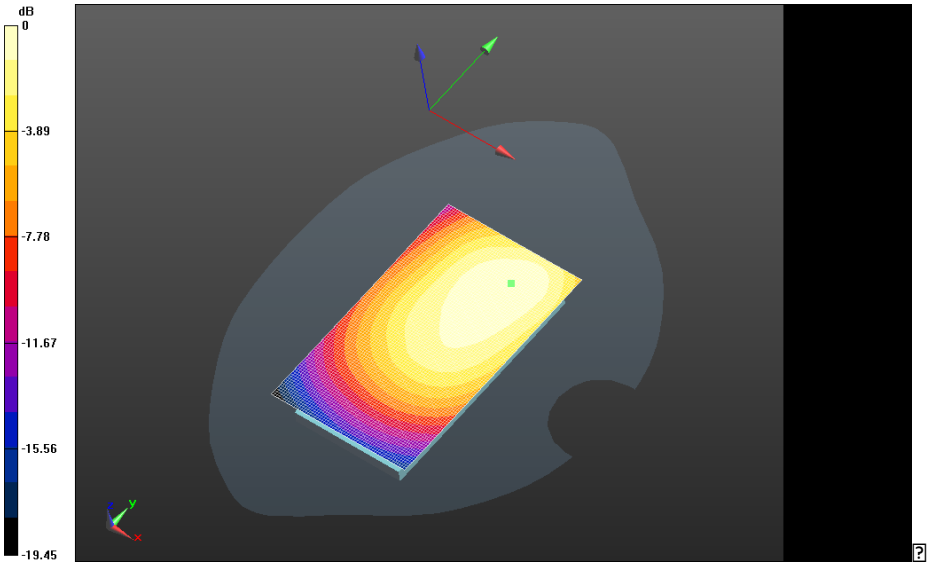
**Fast SAR: SAR(1g) = 0.430 W/kg; SAR(10g) = 0.304 W/kg**
Maximum value of SAR (interpolated) = 0.487 W/kg




0 dB = 0.679 W/kg = -1.68 dBW/kg

**Body Worn MSL - CDMA 800 BC10/Holster Device Back - CDMA 800 BC10_chan580_amb_temp_23.2C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.661 V/m; **Power Drift = 0.099 dB**

**Fast SAR: SAR(1g) = 0.433 W/kg; SAR(10g) = 0.303 W/kg**
Maximum value of SAR (interpolated) = 0.490 W/kg




0 dB = 0.487 W/kg = -3.12 dBW/kg

# CDMA 850 BC0

Date: 6/27/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - CDMA 850 BC0

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular;
Frequency: 836.52 MHz
Medium Parameters used: f=836.52 MHz; $\sigma$ = 0.963 S/m; $\varepsilon_r$ = 53.127; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

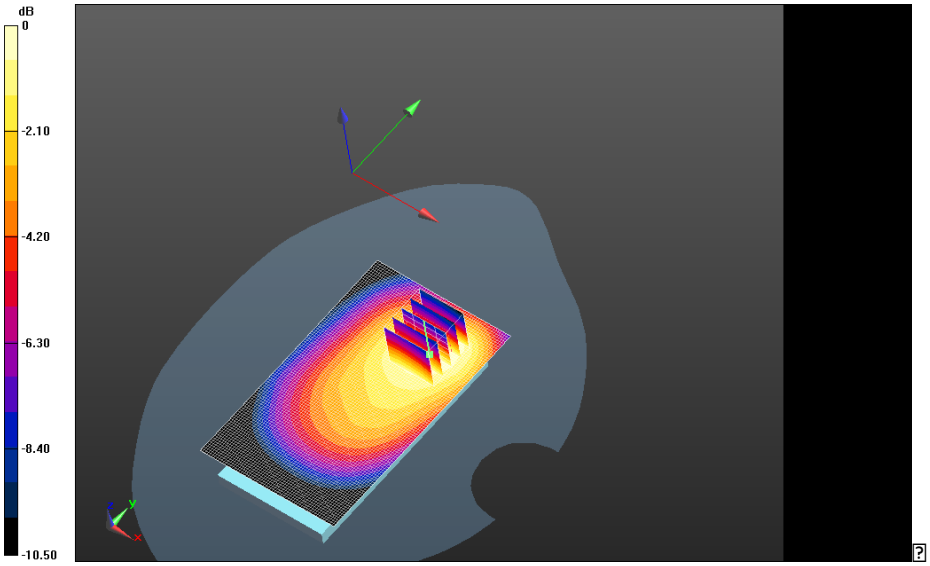
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - CDMA 850 BC0/15mm Device Back - CDMA 850 BC0_chan384_amb_temp_22.8C_liq_temp_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.776 V/m; **Power Drift = 0.032 dB**

**Body Worn MSL - CDMA 850 BC0/15mm Device Back - CDMA 850 BC0_chan384_amb_temp_22.8C_liq_temp_22.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 20.776 V/m; **Power Drift = 0.032 dB**

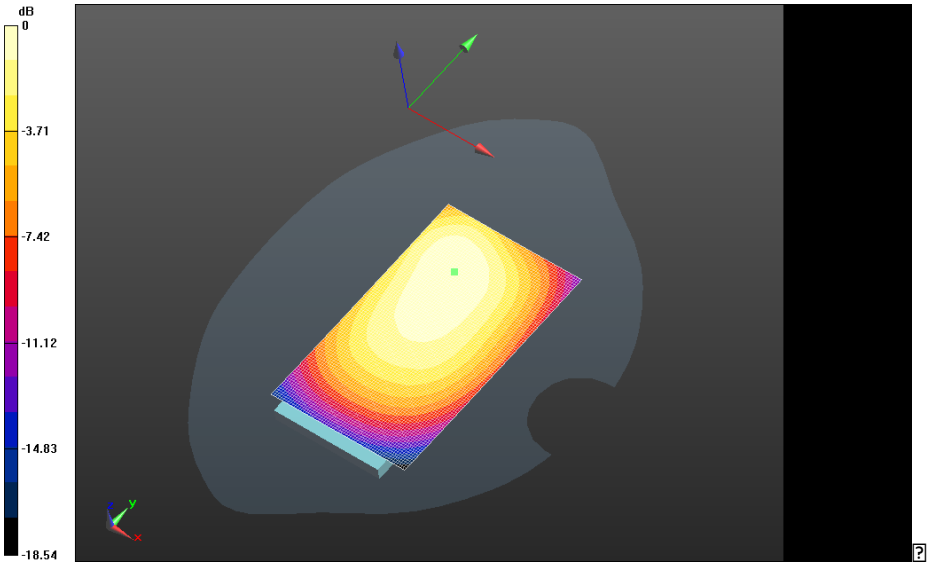
**Averaged SAR: SAR(1g) = 0.558 W/kg; SAR(10g) = 0.397 W/kg**
Maximum value of SAR (interpolated) = 0.754 W/kg




0 dB = 0.629 W/kg = -2.01 dBW/kg

**Body Worn MSL - CDMA 850 BC0/15mm Device Front- CDMA 850 BC0_chan384_amb_temp_23.0C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.923 V/m; **Power Drift = 0.011 dB**

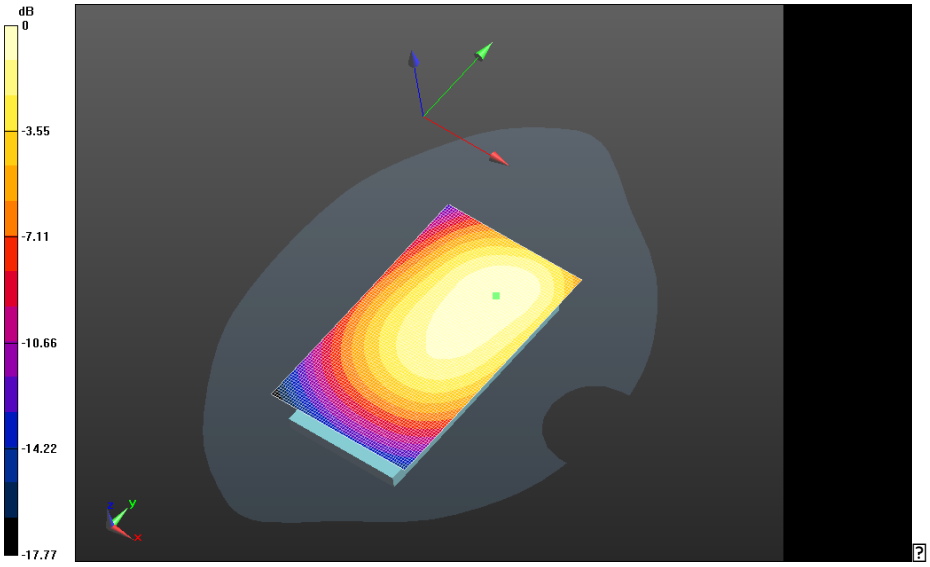
**Fast SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.296 W/kg**
Maximum value of SAR (interpolated) = 0.483 W/kg




0 dB = 0.629 W/kg = -2.01 dBW/kg

**Body Worn MSL - CDMA 850 BC0/Holster Device Back - CDMA 850 BC0_chan384_amb_temp_23.4C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.220 V/m; **Power Drift = -0.011 dB**

**Fast SAR: SAR(1g) = 0.398 W/kg; SAR(10g) = 0.278 W/kg**
Maximum value of SAR (interpolated) = 0.452 W/kg




0 dB = 0.483 W/kg = -3.16 dBW/kg

# SVLTE Band 25

Date: 6/29/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - SVLTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1882.5 MHz
Medium Parameters used: f=1882.5 MHz; $\sigma$ = 1.517 S/m; $\varepsilon_r$ = 51.173; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

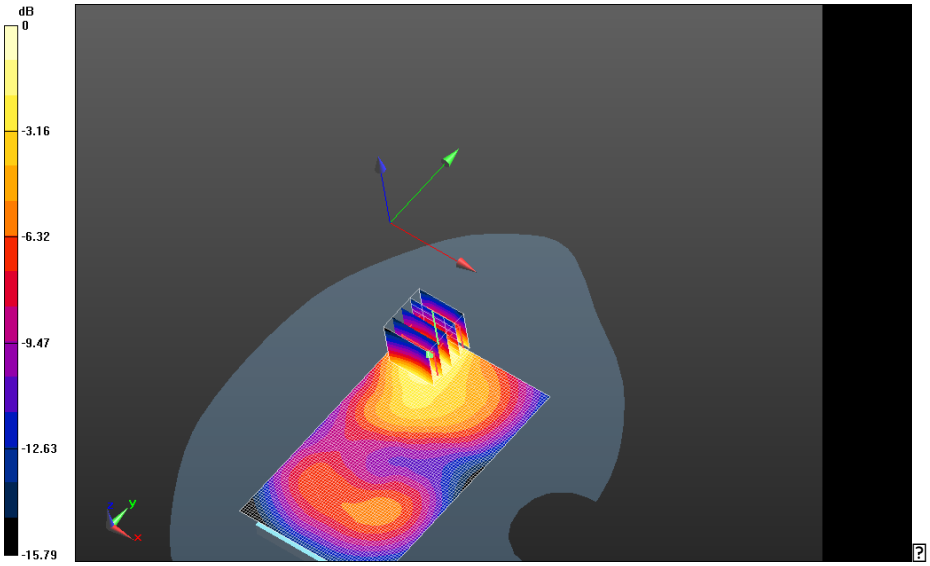
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - SVLTE Band 25/15mm Device Back - SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.5C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.815 V/m; **Power Drift = 0.106 dB**

**Body Worn MSL - SVLTE Band 25/15mm Device Back - SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.5C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 3.815 V/m; **Power Drift = 0.106 dB**

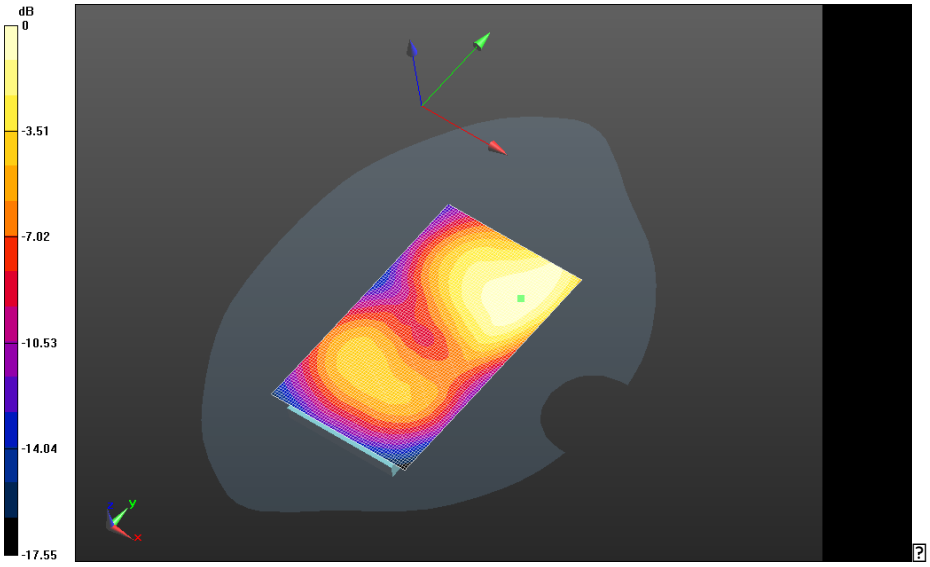
**Averaged SAR: SAR(1g) = 0.110 W/kg; SAR(10g) = 0.0634 W/kg**
Maximum value of SAR (interpolated) = 0.179 W/kg




0 dB = 0.131 W/kg = -8.83 dBW/kg

**Body Worn MSL - SVLTE Band 25/15mm Device Front - SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.294 V/m; **Power Drift = 0.086 dB**

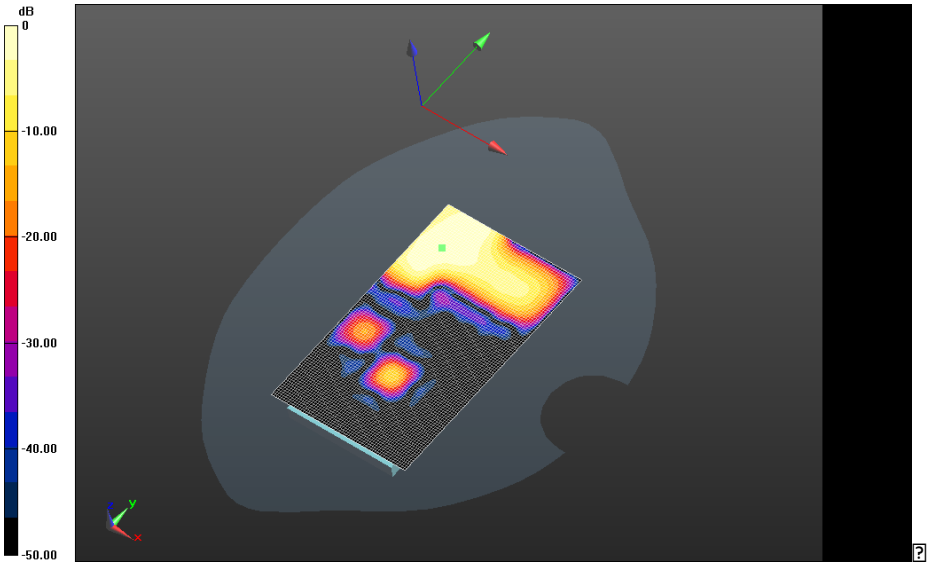
**Fast SAR: SAR(1g) = 0.0986 W/kg; SAR(10g) = 0.0604 W/kg**
Maximum value of SAR (interpolated) = 0.118 W/kg




0 dB = 0.131 W/kg = -8.83 dBW/kg

**Body Worn MSL - SVLTE Band 25/Holster Device Back - SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.5C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 0.455 V/m; **Power Drift = 0.033 dB**

**Fast SAR: SAR(1g) = 0.00443 W/kg; SAR(10g) = 0.00254 W/kg**
Maximum value of SAR (interpolated) = 0.00536 W/kg




0 dB = 0.118 W/kg = -9.28 dBW/kg

# LTE Band 25

Date: 7/2/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - LTE Band 25

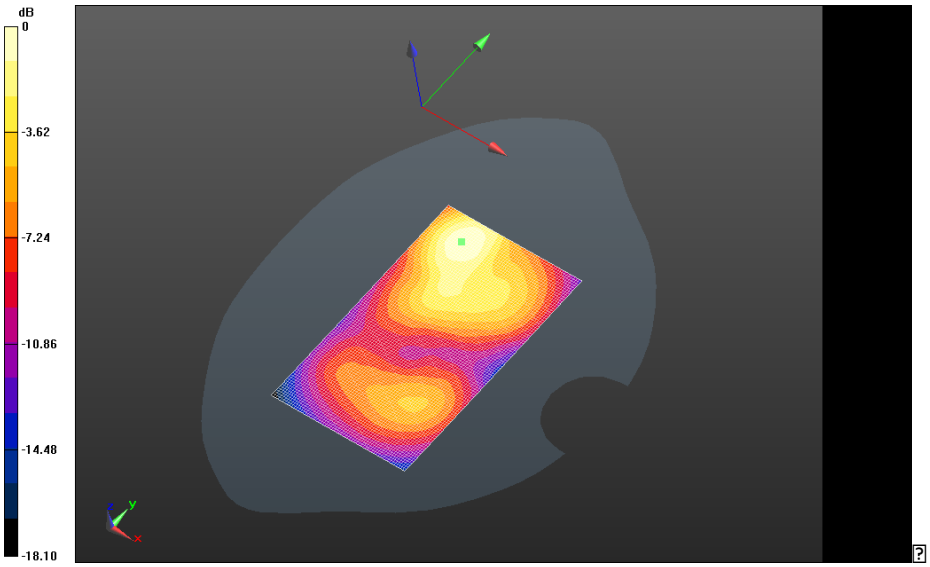
Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1860 MHz
Medium Parameters used: f=1860 MHz; $\sigma$ = 1.506 S/m; $\varepsilon_r$ = 50.738; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - LTE Band 25/15mm Device Back - LTE_Band_25_chan26140_RB50_Offset50_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.619 V/m; **Power Drift = 0.036 dB**

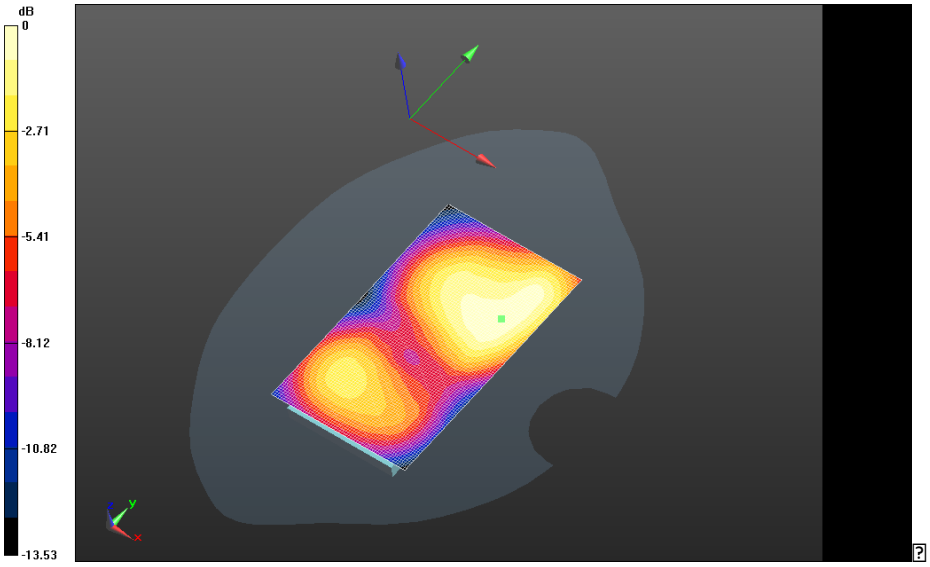
**Fast SAR: SAR(1g) = 0.260 W/kg; SAR(10g) = 0.149 W/kg**
Maximum value of SAR (interpolated) = 0.324 W/kg




0 dB = 0.324 W/kg = -4.89 dBW/kg

**Body Worn MSL - LTE Band 25/15mm Device Front - LTE_Band_25_chan26140_RB50_Offset50_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.466 V/m; **Power Drift = 0.032 dB**

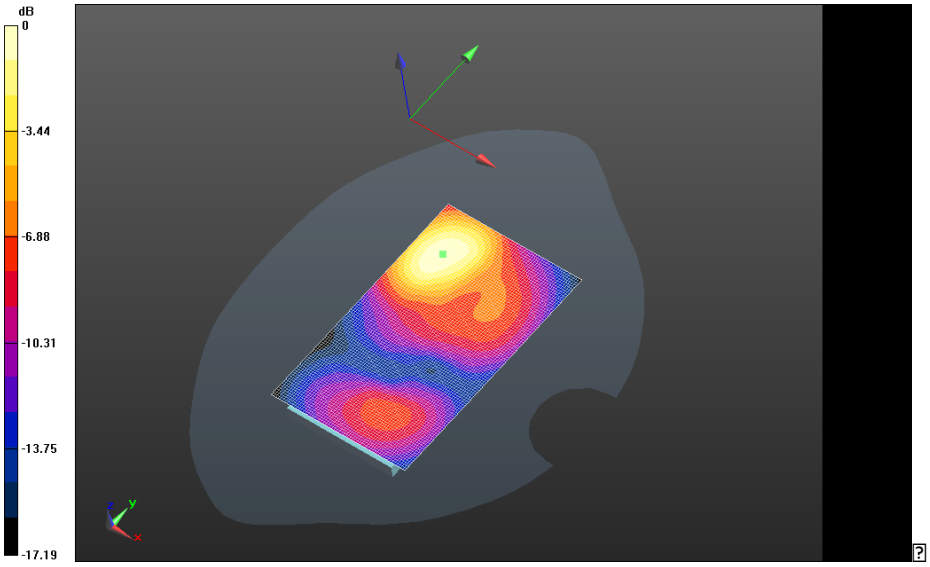
**Fast SAR: SAR(1g) = 0.218 W/kg; SAR(10g) = 0.135 W/kg**
Maximum value of SAR (interpolated) = 0.261 W/kg




0 dB = 0.324 W/kg = -4.89 dBW/kg

**Body Worn MSL - LTE Band 25/Holster Device Back - LTE_Band_25_chan26140_RB50_Offset50_amb_temp_23.2C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.546 V/m; **Power Drift = 0.190 dB**

**Fast SAR: SAR(1g) = 0.278 W/kg; SAR(10g) = 0.159 W/kg**
Maximum value of SAR (interpolated) = 0.338 W/kg




0 dB = 0.261 W/kg = -5.83 dBW/kg

# EDGE/GPRS 1900

Date: 6/24/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 ( 4 slots); Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.532 S/m; $\varepsilon_r$ = 51.502; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

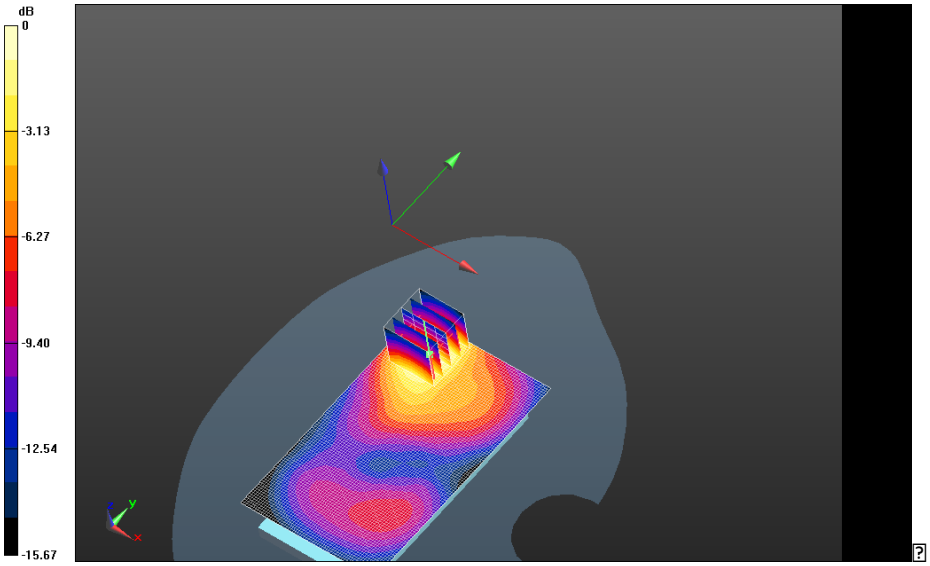
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - GPRS 1900/15mm Device Back - GPRS1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.913 V/m; **Power Drift = 0.023 dB**

**Body Worn MSL - GPRS 1900/15mm Device Back - GPRS1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.913 V/m; **Power Drift = 0.023 dB**

**Averaged SAR: SAR(1g) = 0.573 W/kg; SAR(10g) = 0.333 W/kg**
Maximum value of SAR (interpolated) = 0.942 W/kg

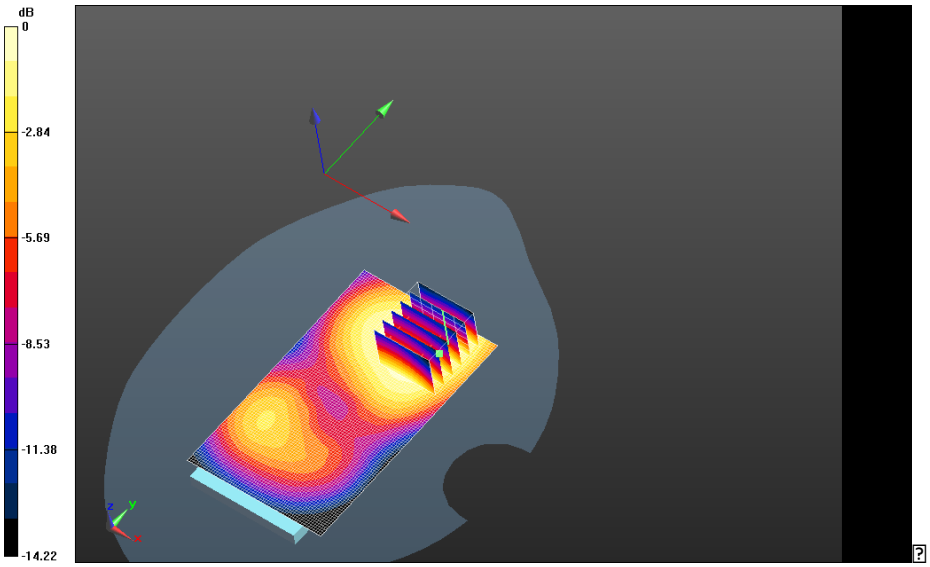



0 dB = 0.692 W/kg = -1.60 dBW/kg

**Body Worn MSL - GPRS 1900/15mm Device Front - GPRS1900_chan661_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.989 V/m; **Power Drift = -0.0027 dB**

**Body Worn MSL - GPRS 1900/15mm Device Front - GPRS1900_chan661_amb_temp_23.4C_liq_temp_22.3C/Zoom Scan (26x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.989 V/m; **Power Drift = -0.0027 dB**

**Averaged SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.201 W/kg**
Maximum value of SAR (interpolated) = 0.486 W/kg

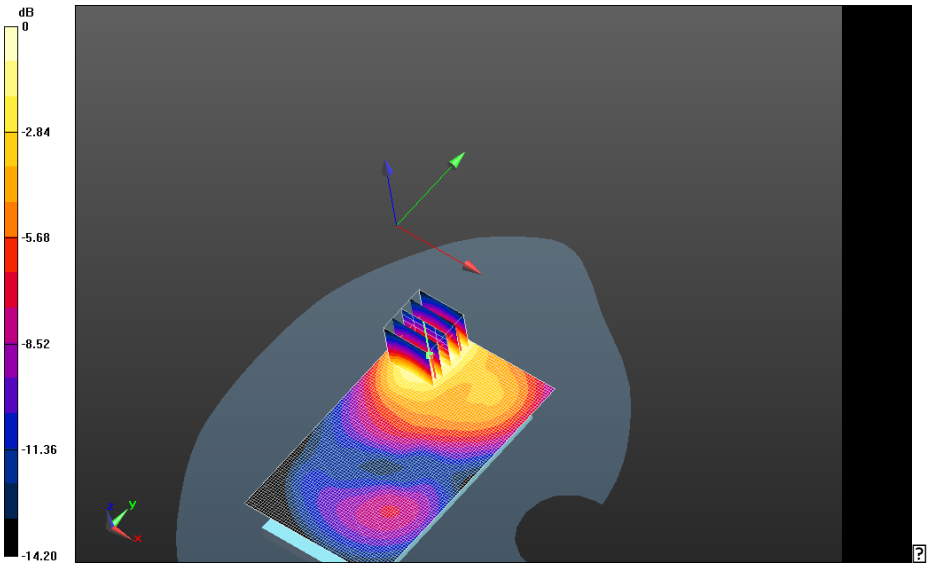



0 dB = 0.692 W/kg = -1.60 dBW/kg

**Body Worn MSL - GPRS 1900/Holster Device Back - GPRS1900_chan661_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.727 V/m; **Power Drift = -0.060 dB**

**Body Worn MSL - GPRS 1900/Holster Device Back - GPRS1900_chan661_amb_temp_23.0C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.727 V/m; **Power Drift = -0.060 dB**

**Averaged SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.160 W/kg**
Maximum value of SAR (interpolated) = 0.412 W/kg




0 dB = 0.360 W/kg = -4.44 dBW/kg

Date: 7/3/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 ( 4 slots); Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.534 S/m; $\varepsilon_r$ = 50.675; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

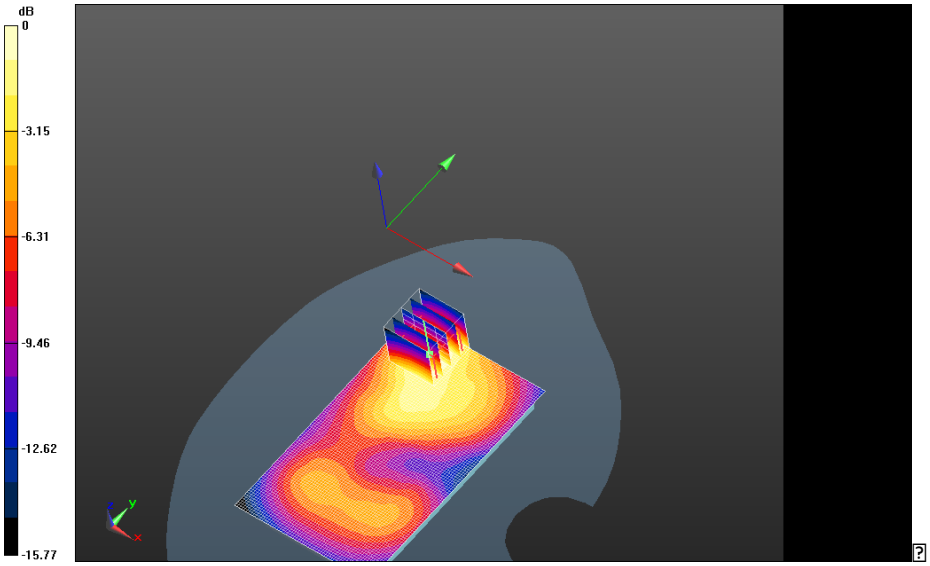
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - GPRS 1900/15mm Device Back - GPRS1900-4slot_chan661_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.329 W/kg

**Body Worn MSL - GPRS 1900/15mm Device Back - GPRS1900-4slot_chan661_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.307 V/m; **Power Drift = 0.071 dB**

**Averaged SAR: SAR(1g) = 0.286 W/kg; SAR(10g) = 0.168 W/kg**
Maximum value of SAR (interpolated) = 0.466 W/kg




0 dB = 0.340 W/kg = -4.69 dBW/kg

# UMTS Band II

Date/Time: 8/8/2013 12:33:53 AM

Test Laboratory: RIM Testing Services

## SAR_UMTS_II_Low_chan_15mm_back

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333E2BE8**

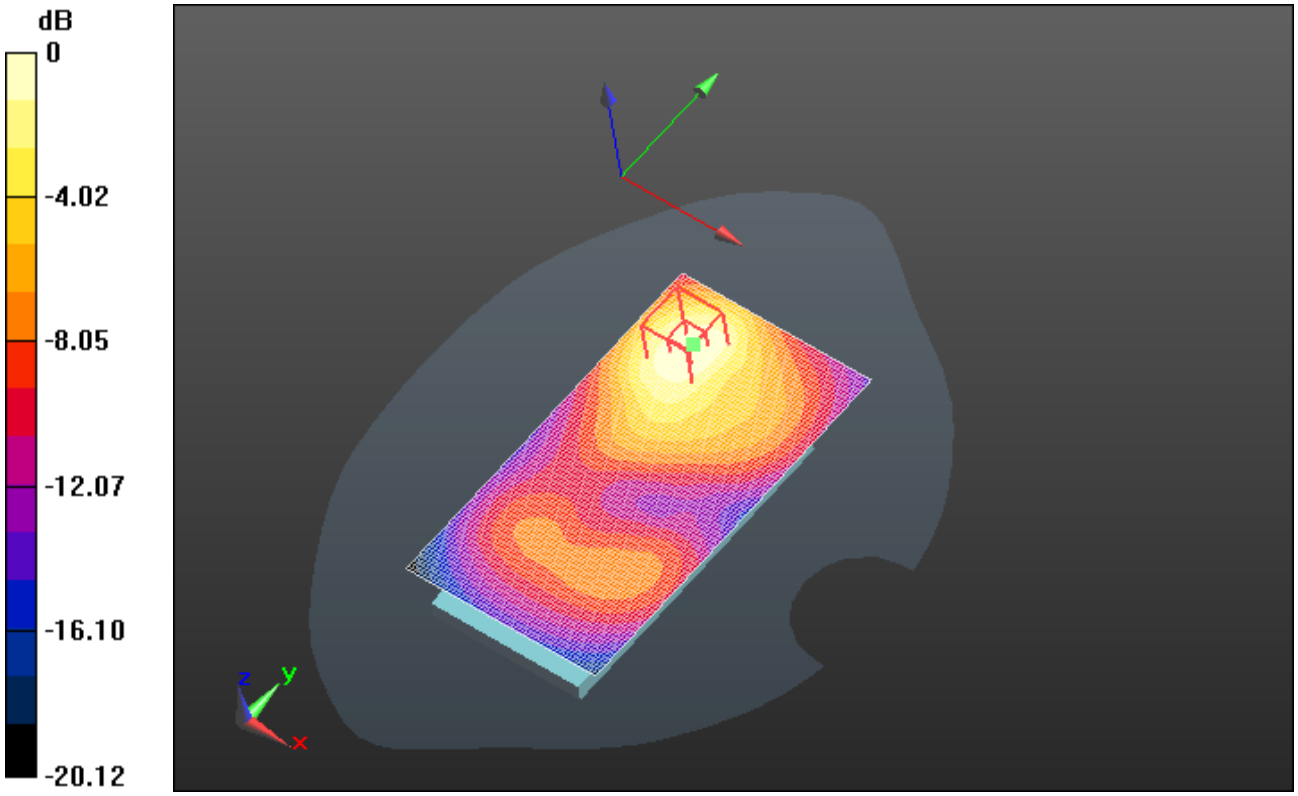
Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1852.4 MHz
Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.505 S/m; $\varepsilon_r$ = 50.967; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9262_amb_temp_23.2C_liq_temp_22.1C/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.387 V/m; Power Drift = -0.10 dB
**Fast SAR: SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.355 W/kg**

Maximum value of SAR (interpolated) = 0.742 W/kg




0 dB = 0.742 W/kg = -1.30 dBW/kg

Date: 6/21/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.560 S/m; $\varepsilon_r$ = 51.517; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

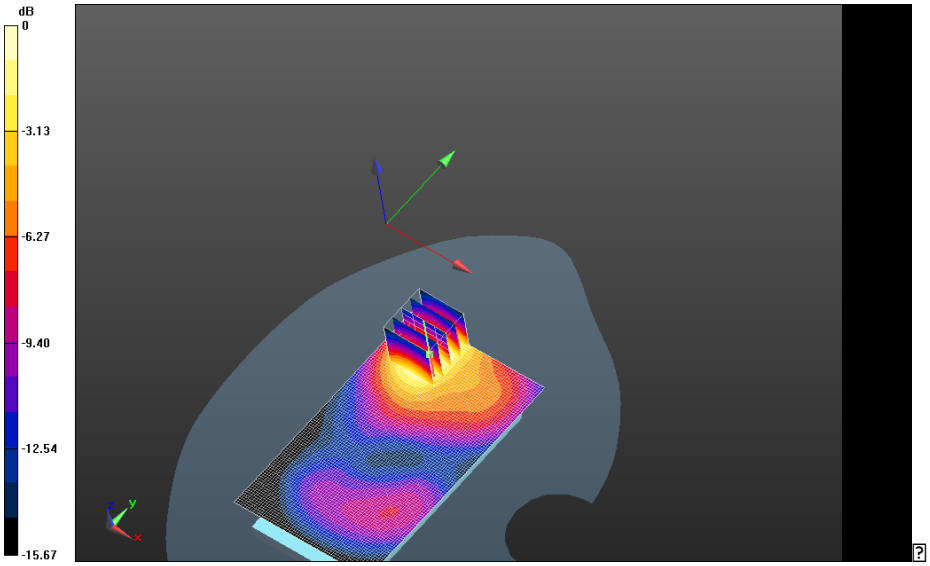
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.074 V/m; **Power Drift = 0.068 dB**

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.074 V/m; **Power Drift = 0.068 dB**

**Averaged SAR: SAR(1g) = 0.766 W/kg; SAR(10g) = 0.447 W/kg**
Maximum value of SAR (interpolated) = 1.23 W/kg




0 dB = 0.922 W/kg = -0.35 dBW/kg

Date/Time: 8/8/2013 12:46:04 AM

Test Laboratory: RIM Testing Services

## SAR_UMTS_II_high_chan_15mm_back

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 333E2BE8**

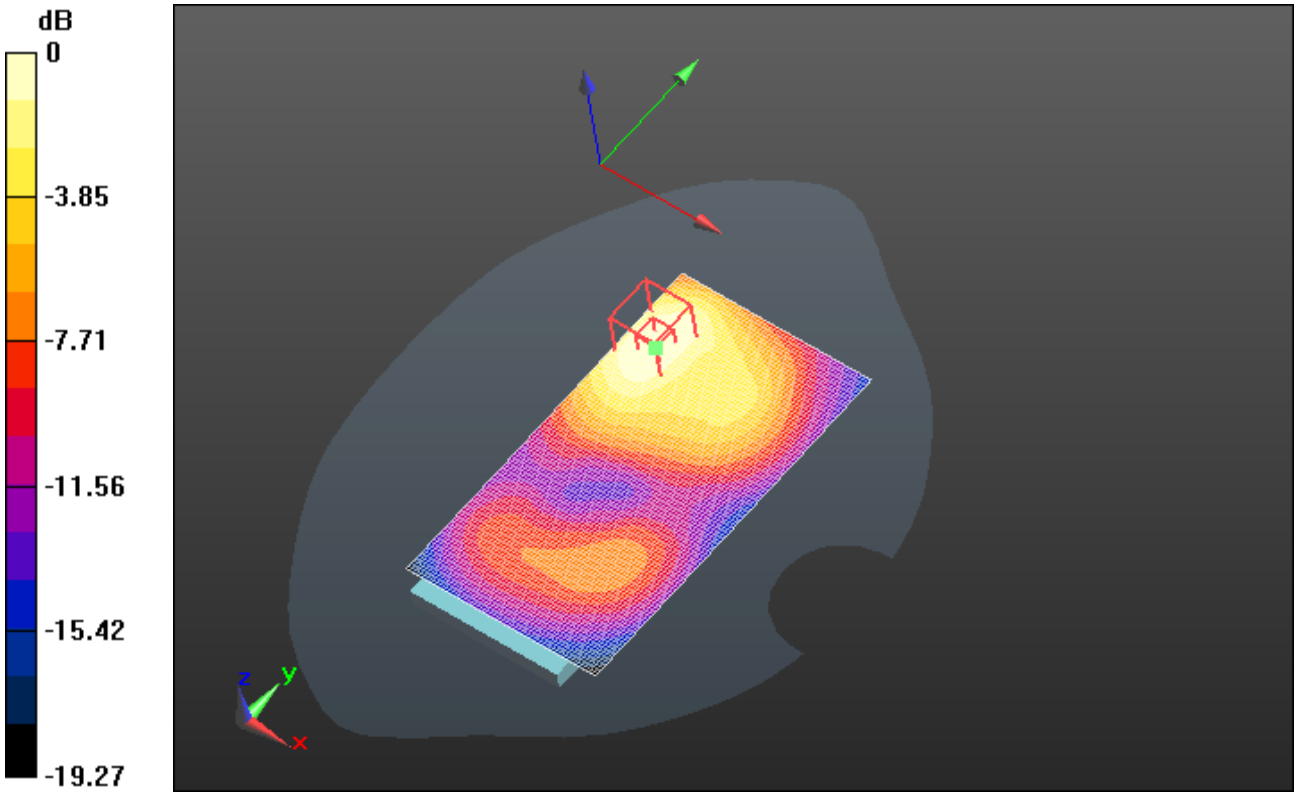
Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma$ = 1.56 S/m; $\varepsilon_r$ = 50.78; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9538_amb_temp_23.2C_liq_temp_22.1C/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.506 V/m; Power Drift = 0.03 dB
**Fast SAR: SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.294 W/kg**

Maximum value of SAR (interpolated) = 0.598 W/kg




0 dB = 0.598 W/kg = -2.23 dBW/kg

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.560 S/m; $\varepsilon_r$ = 51.517; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

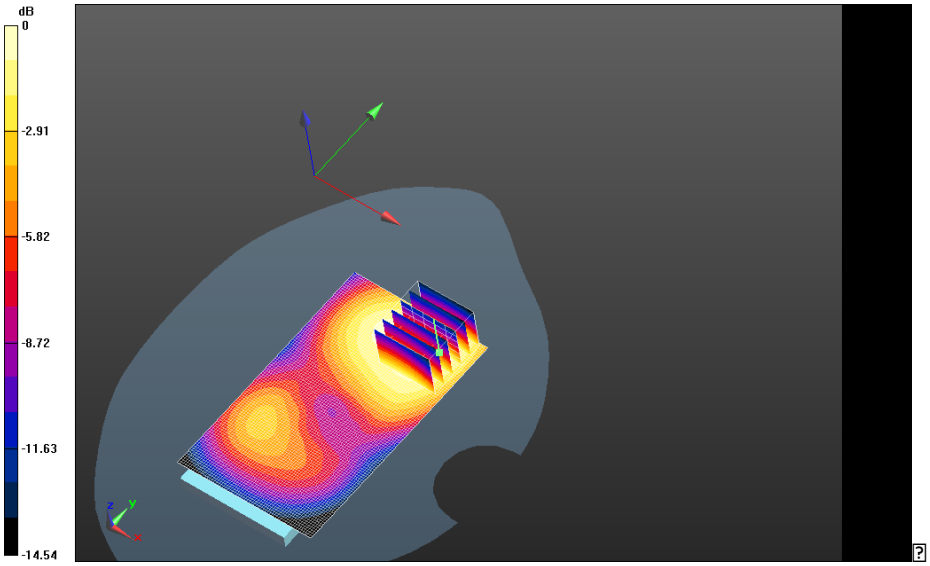
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS II/15mm Device Front - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.3C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.731 V/m; **Power Drift = 0.00159 dB**

**Body Worn MSL - UMTS II/15mm Device Front - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.3C/Zoom Scan (26x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.731 V/m; **Power Drift = 0.00159 dB**

**Averaged SAR: SAR(1g) = 0.434 W/kg; SAR(10g) = 0.278 W/kg**
Maximum value of SAR (interpolated) = 0.697 W/kg




0 dB = 0.922 W/kg = -0.35 dBW/kg

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E**

## Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.560 S/m; $\varepsilon_r$ = 51.517; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

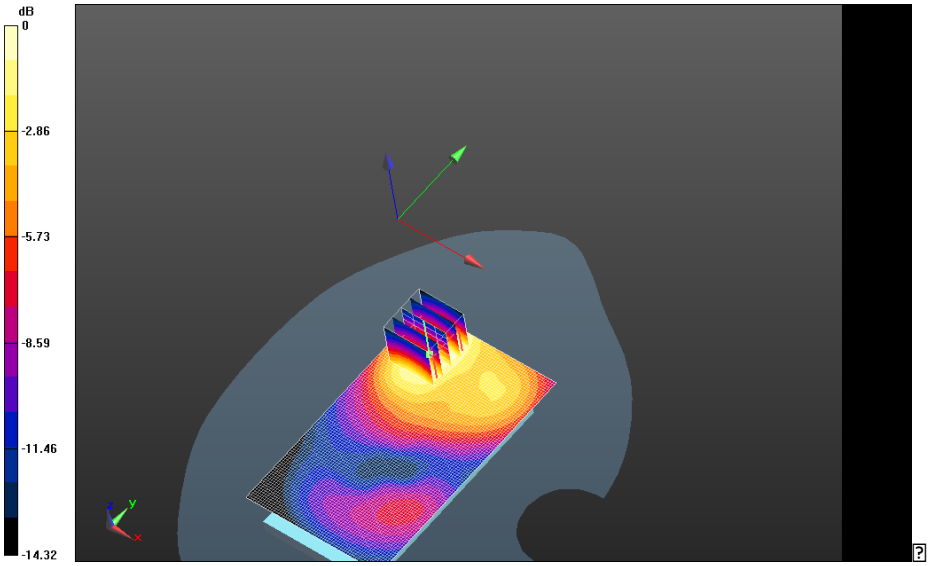
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS II/Holster Device Back - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.148 V/m; **Power Drift = -0.00321 dB**

**Body Worn MSL - UMTS II/Holster Device Back - UMTS_II_chan9400_amb_temp_23.8C_liq_temp_22.4C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.148 V/m; **Power Drift = -0.00321 dB**

**Averaged SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.212 W/kg**
Maximum value of SAR (interpolated) = 0.540 W/kg




0 dB = 0.518 W/kg = -2.86 dBW/kg

Date: 7/3/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.534 S/m; $\varepsilon_r$ = 50.675; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

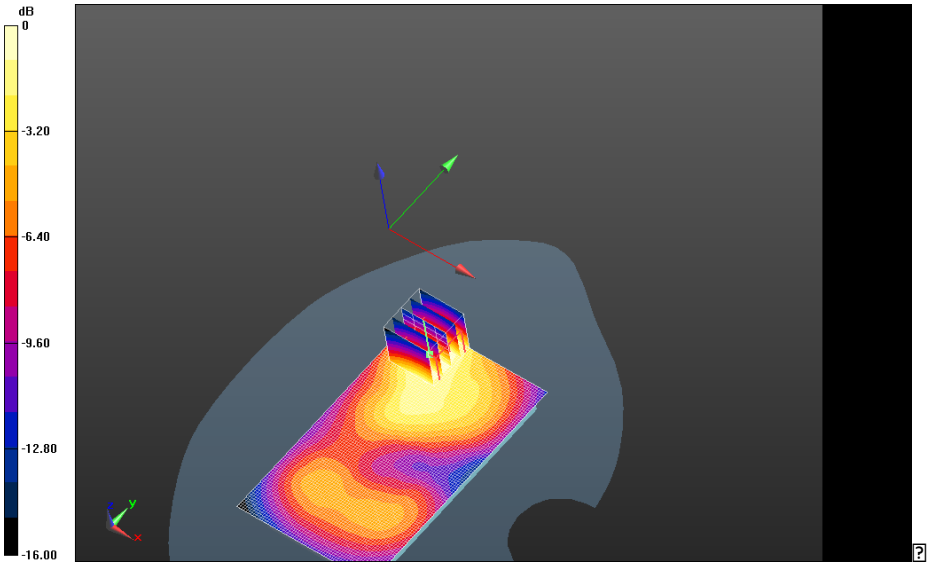
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.355 W/kg

**Body Worn MSL - UMTS II/15mm Device Back - UMTS_II_chan9400_amb_temp_23.9C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 6.472 V/m; **Power Drift = -0.048 dB**

**Averaged SAR: SAR(1g) = 0.300 W/kg; SAR(10g) = 0.176 W/kg**
Maximum value of SAR (interpolated) = 0.491 W/kg




0 dB = 0.352 W/kg = -4.53 dBW/kg

# CDMA 1900 BC1

Date: 6/28/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - CDMA 1900 BC1

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;
Frequency: 1880 MHz
Medium Parameters used: f=1880 MHz; $\sigma$ = 1.515 S/m; $\varepsilon_r$ = 51.187; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

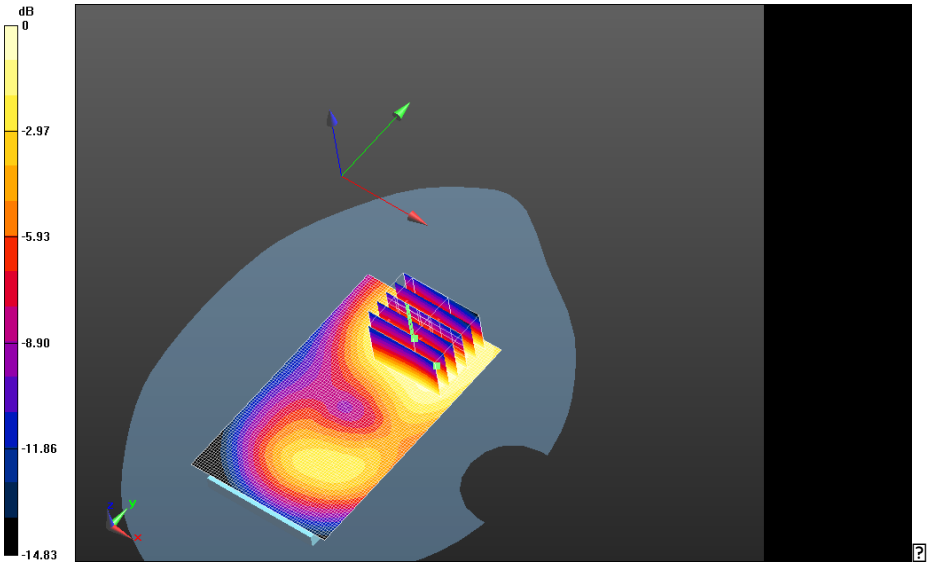
**Body Worn MSL - CDMA 1900 BC1/15mm Device Back - CDMA 1900 BC1_chan600_amb_temp_22.8C_liq_temp_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.474 V/m; **Power Drift = 0.048 dB**

**Fast SAR: SAR(1g) = 0.462 W/kg; SAR(10g) = 0.289 W/kg**
Maximum value of SAR (interpolated) = 0.546 W/kg

**Body Worn MSL - CDMA 1900 BC1/15mm Device Back - CDMA 1900 BC1_chan600_amb_temp_22.8C_liq_temp_22.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.474 V/m; **Power Drift = 0.048 dB**

**Body Worn MSL - CDMA 1900 BC1/15mm Device Back - CDMA 1900 BC1_chan600_amb_temp_22.8C_liq_temp_22.6C/Zoom Scan 2 (31x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.474 V/m; **Power Drift = -0.015 dB**

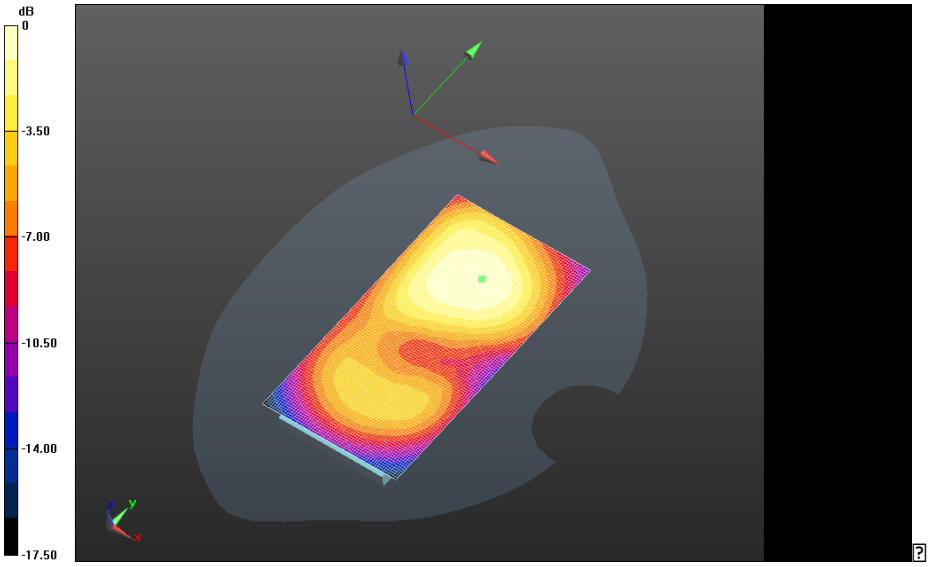
**Averaged SAR: SAR(1g) = 0.468 W/kg; SAR(10g) = 0.306 W/kg**
Maximum value of SAR (interpolated) = 0.707 W/kg




0 dB = 0.542 W/kg = -2.66 dBW/kg

**Body Worn MSL - CDMA 1900 BC1/15mm Device Front- CDMA 1900 BC1_chan600_amb_temp_23.1C_liq_temp_22.3C/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.681 V/m; **Power Drift = 0.016 dB**

**Fast SAR: SAR(1g) = 0.696 W/kg; SAR(10g) = 0.435 W/kg**
Maximum value of SAR (interpolated) = 0.823 W/kg

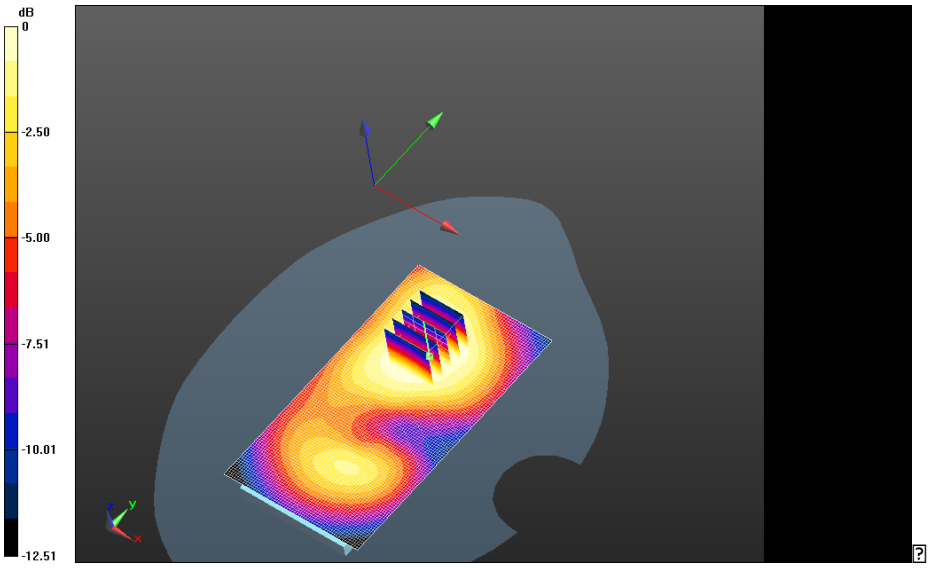



0 dB = 0.542 W/kg = -2.66 dBW/kg

**Body Worn MSL - CDMA 1900 BC1/Holster Device Front - CDMA 1900 BC1_chan600_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.031 V/m; **Power Drift = 0.141 dB**

**Body Worn MSL - CDMA 1900 BC1/Holster Device Front - CDMA 1900 BC1_chan600_amb_temp_23.4C_liq_temp_22.3C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.031 V/m; **Power Drift = 0.141 dB**

**Averaged SAR: SAR(1g) = 0.417 W/kg; SAR(10g) = 0.280 W/kg**
Maximum value of SAR (interpolated) = 0.618 W/kg




0 dB = 0.823 W/kg = -0.85 dBW/kg

# 802.11b/g Full Power

Date: 8/7/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - 802.11g

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 1.951 S/m; $\varepsilon_r$ = 50.699; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

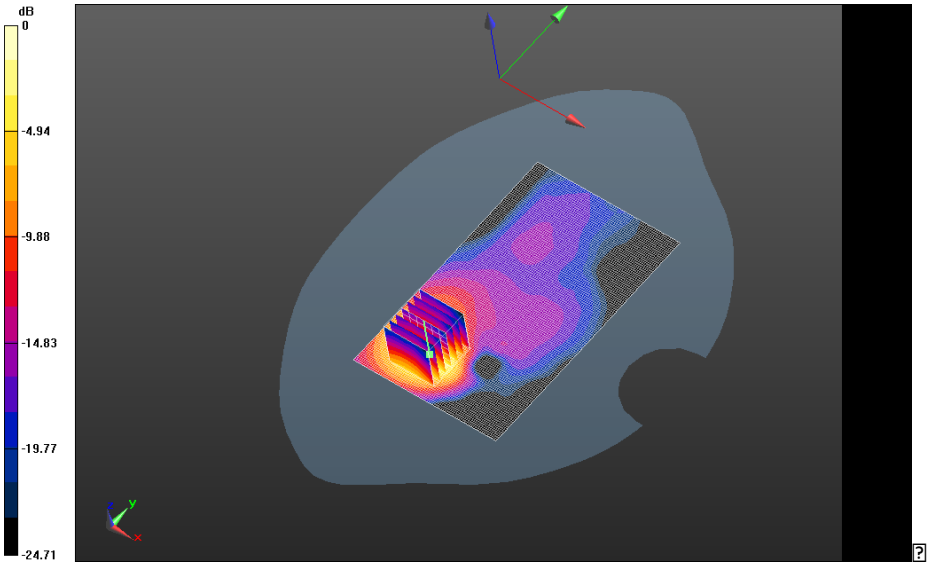
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11g/15mm Device Back - 802.11g_chan6_amb_temp_23.3C_liq_temp_21.1C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.293 W/kg

**Body Worn MSL - 802.11g/15mm Device Back - 802.11g_chan6_amb_temp_23.3C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 11.826 V/m; **Power Drift = 0.022 dB**

**Averaged SAR: SAR(1g) = 0.221 W/kg; SAR(10g) = 0.107 W/kg**
Maximum value of SAR (interpolated) = 0.454 W/kg

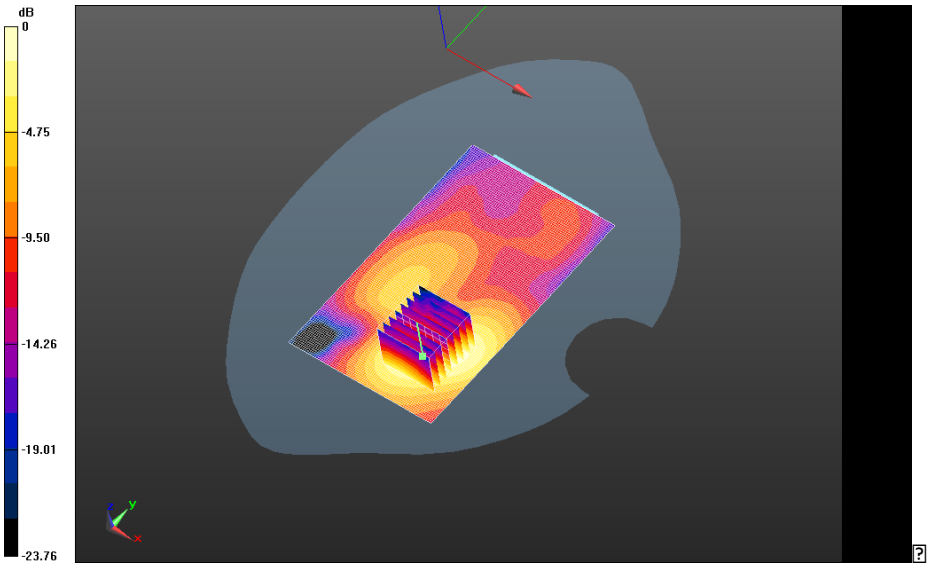



0 dB = 0.285 W/kg = -5.45 dBW/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11g_chan6_amb_temp_23.1C_liq_temp_21.5C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0849 W/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11g_chan6_amb_temp_23.1C_liq_temp_21.5C/Zoom Scan (36x36x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 6.672 V/m; **Power Drift = -0.104 dB**

**Averaged SAR: SAR(1g) = 0.0672 W/kg; SAR(10g) = 0.0364 W/kg**
Maximum value of SAR (interpolated) = 0.128 W/kg

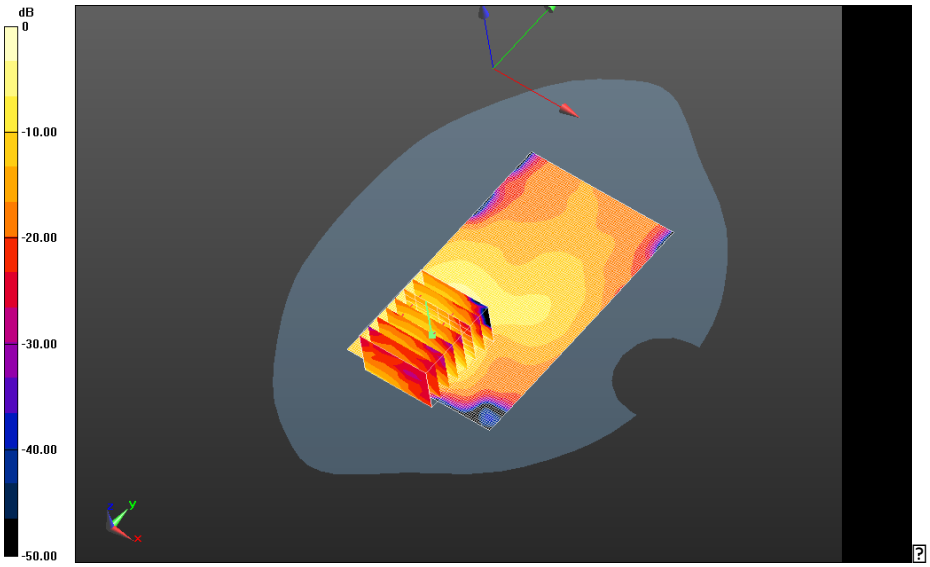



0 dB = 0.285 W/kg = -5.45 dBW/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11g_chan6_amb_temp_23.2C_liq_temp_21.5C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.138 W/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11g_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan (31x36x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.093 V/m; **Power Drift = -0.00741 dB**

**Averaged SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0547 W/kg**
Maximum value of SAR (interpolated) = 0.210 W/kg




0 dB = 0.0833 W/kg = -10.79 dBW/kg

# 802.11g CDMA BC10 Power Level

Date: 7/25/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - 802.11g

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 2.022 S/m; $\varepsilon_r$ = 50.993; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

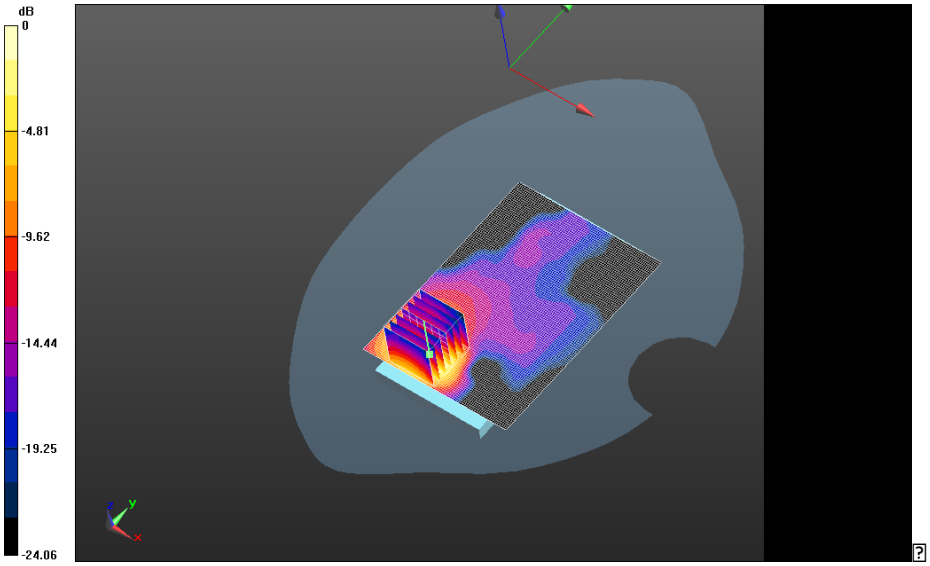
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11g/15mm Device Back - 802.11b_chan6_amb_temp_23.3C_liq_temp_21.1C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.159 W/kg

**Body Worn MSL - 802.11g/15mm Device Back - 802.11b_chan6_amb_temp_23.3C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 8.025 V/m; **Power Drift = 0.068 dB**

**Averaged SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0574 W/kg**
Maximum value of SAR (interpolated) = 0.249 W/kg

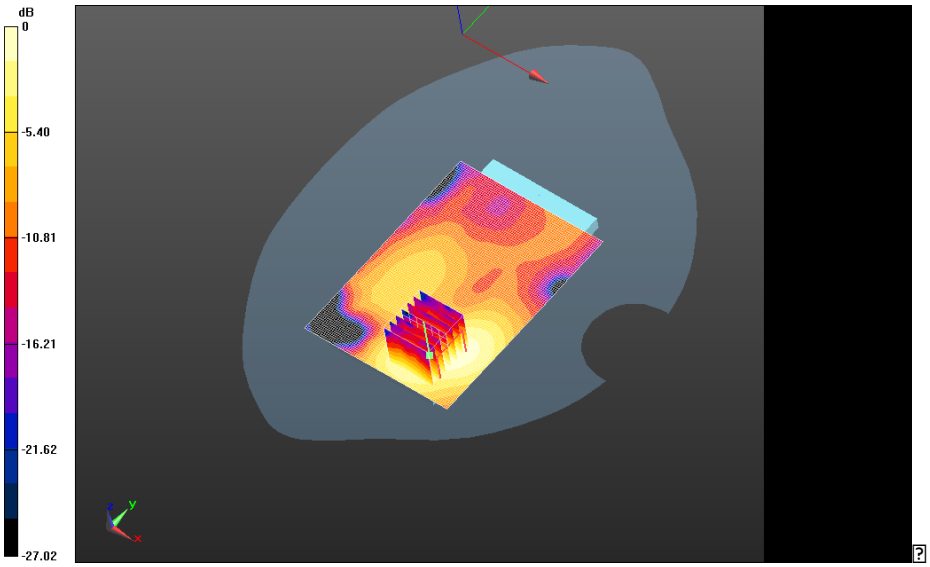



0 dB = 0.155 W/kg = -8.10 dBW/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.5C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0416 W/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11b_chan6_amb_temp_23.1C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.613 V/m; **Power Drift = 0.149 dB**

**Averaged SAR: SAR(1g) = 0.0338 W/kg; SAR(10g) = 0.0184 W/kg**
Maximum value of SAR (interpolated) = 0.0649 W/kg

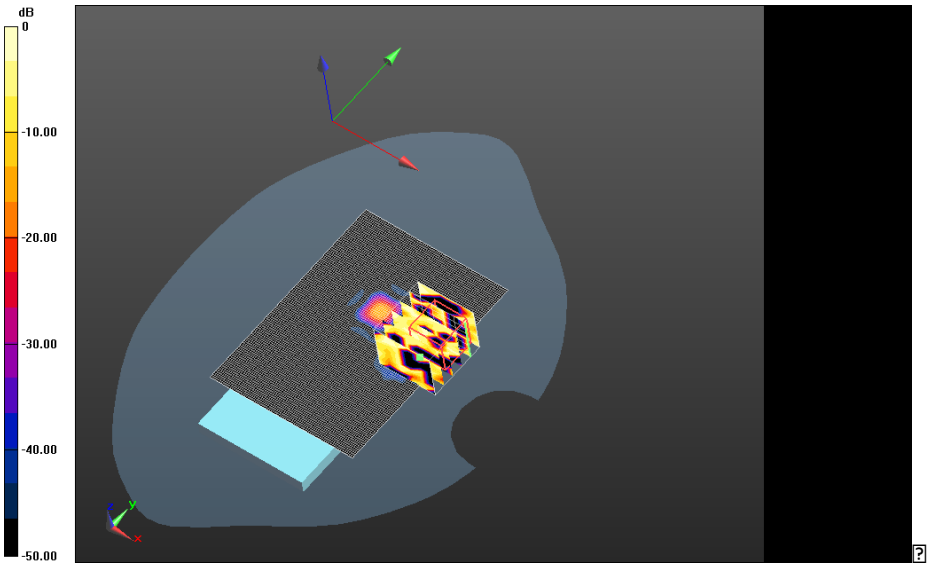



0 dB = 0.155 W/kg = -8.10 dBW/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.000635 W/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan (26x26x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 0.885 V/m; **Power Drift = 0.265 dB**

**Averaged SAR: SAR(1g) = 0.0000128 W/kg; SAR(10g) = 0.00000171 W/kg**
Maximum value of SAR (interpolated) = 0.000658 W/kg

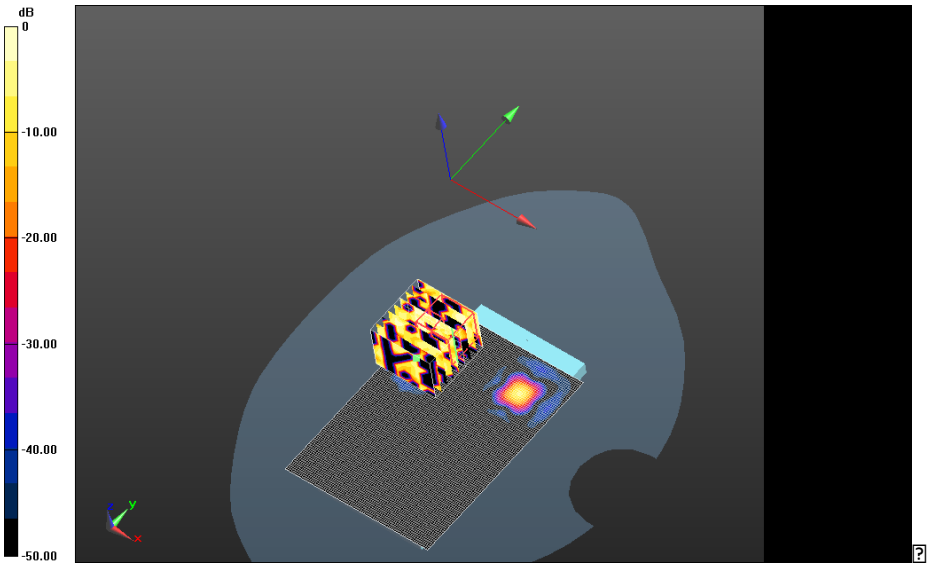



0 dB = 0.0418 W/kg = -13.79 dBW/kg

**Body Worn MSL - 802.11g/Holster Device Front - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.000742 W/kg

**Body Worn MSL - 802.11g/Holster Device Front - 802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan (41x41x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 0.812 V/m; **Power Drift = 0.334 dB**

**Averaged SAR: SAR(1g) = 0.000130 W/kg; SAR(10g) = 0.0000289 W/kg**
Maximum value of SAR (interpolated) = 0.00124 W/kg




0 dB = 0.000906 W/kg = -30.43 dBW/kg

# 802.11g SVLTE CDMA BC1
# 25 Power level

Date: 8/7/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

## Configuration: Body Worn MSL - 802.11g

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 1.951 S/m; $\varepsilon_r$ = 50.699; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

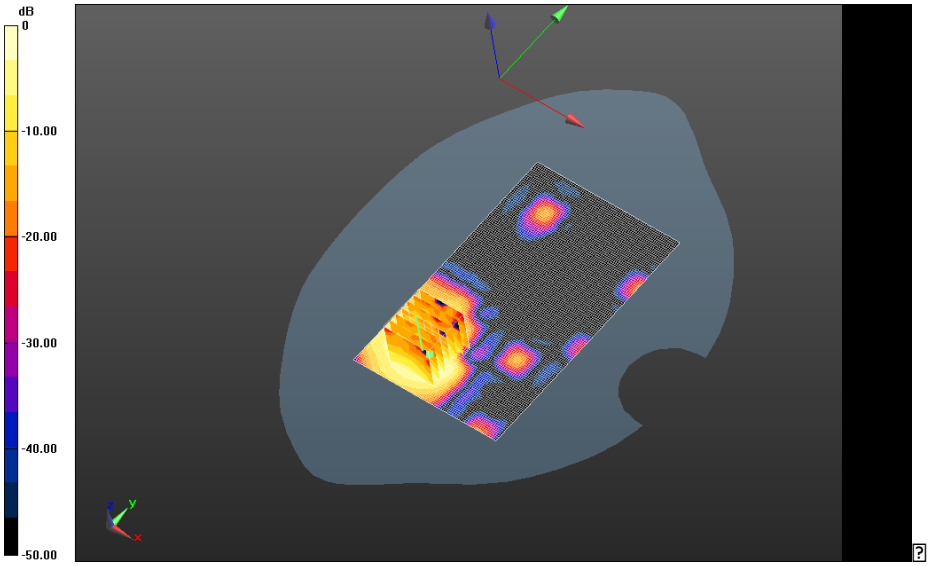
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11g/15mm Device Back - 802.11g_chan6_amb_temp_23.3C_liq_temp_21.1C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0418 W/kg

**Body Worn MSL - 802.11g/15mm Device Back - 802.11g_chan6_amb_temp_23.3C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 4.303 V/m; **Power Drift = -0.065 dB**

**Averaged SAR: SAR(1g) = 0.0286 W/kg; SAR(10g) = 0.0136 W/kg**
Maximum value of SAR (interpolated) = 0.0591 W/kg

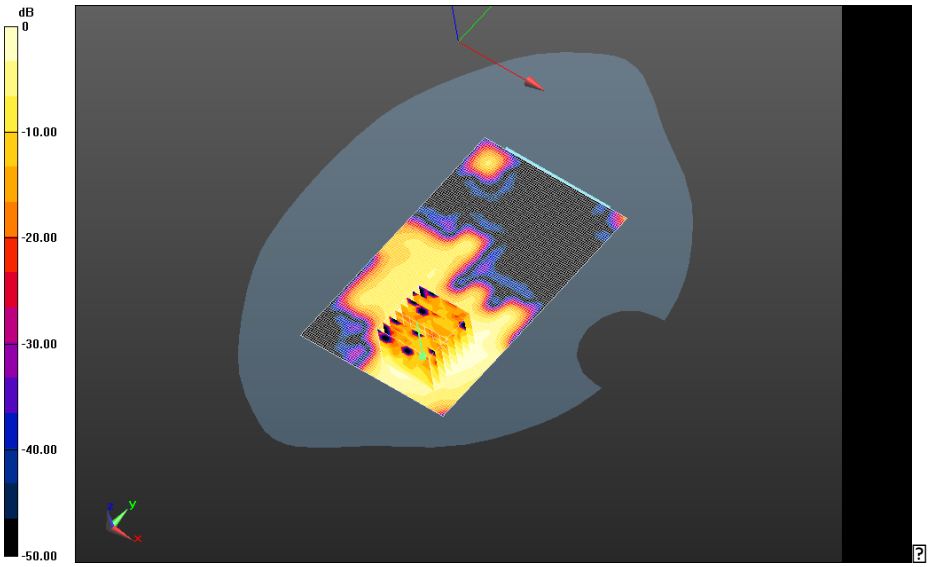



0 dB = 0.0365 W/kg = -14.38 dBW/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11g_chan6_amb_temp_23.1C_liq_temp_21.5C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0108 W/kg

**Body Worn MSL - 802.11g/15mm Device Front - 802.11g_chan6_amb_temp_23.1C_liq_temp_21.5C/Zoom Scan (36x36x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 2.503 V/m; **Power Drift = 0.092 dB**

**Averaged SAR: SAR(1g) = 0.00890 W/kg; SAR(10g) = 0.00461 W/kg**
Maximum value of SAR (interpolated) = 0.0158 W/kg

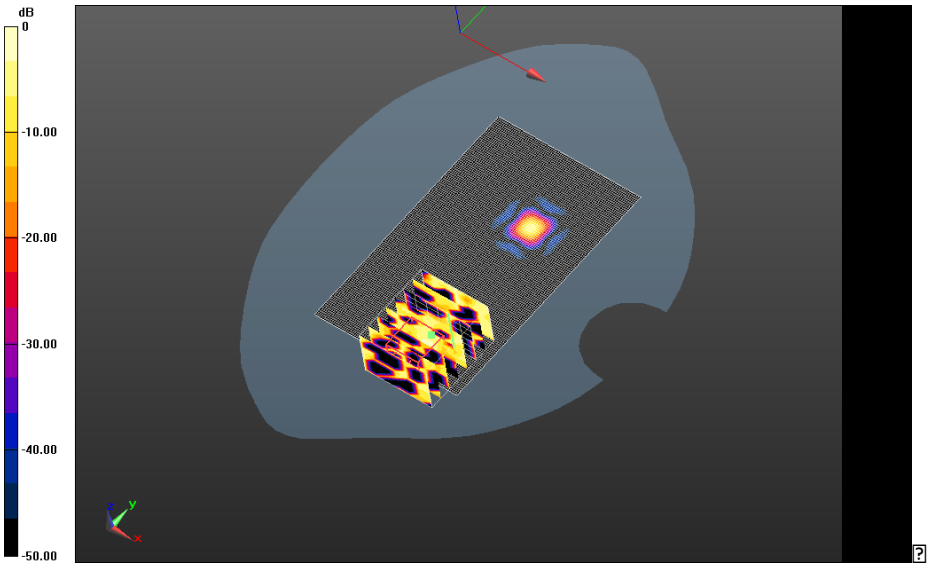



0 dB = 0.0365 W/kg = -14.38 dBW/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11g_chan6_amb_temp_23.2C_liq_temp_21.5C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.000645 W/kg

**Body Worn MSL - 802.11g/Holster Device Back - 802.11g_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan (31x36x36)/Cube 0:**
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 0.910 V/m; **Power Drift = -0.254 dB**

**Averaged SAR: SAR(1g) = 0.000125 W/kg; SAR(10g) = 0.0000225 W/kg**
Maximum value of SAR (interpolated) = 0.00126 W/kg




0 dB = 0.0114 W/kg = -19.43 dBW/kg

# Bluetooth

Date: 6/18/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854**

## Configuration: Body Worn MSL - Bluetooth

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz
Medium Parameters used: f=2437 MHz; $\sigma$ = 1.887 S/m; $\varepsilon_r$ = 50.251; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

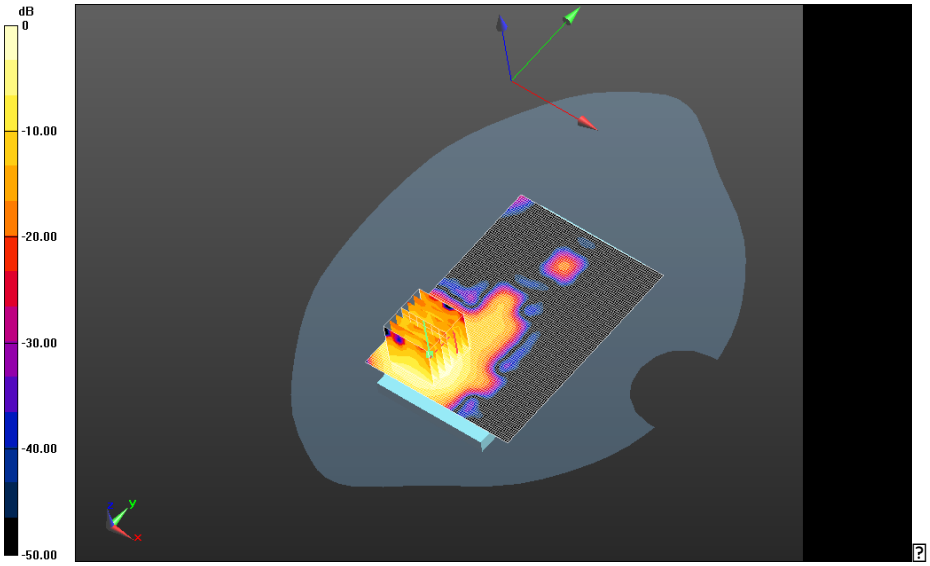
**DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - Bluetooth/15mm Device Back - Bluetooth_chan0_amb_temp_23.3C_liq_temp_21.1C/Area Scan (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0285 W/kg

**Body Worn MSL - Bluetooth/15mm Device Back - Bluetooth_chan0_amb_temp_23.3C_liq_temp_21.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 3.970 V/m; **Power Drift = -0.027 dB**

**Averaged SAR: SAR(1g) = 0.0234 W/kg; SAR(10g) = 0.0112 W/kg**
Maximum value of SAR (interpolated) = 0.0493 W/kg




0 dB = 0.0298 W/kg = -15.26 dBW/kg

# 802.11a Full Power

Date: 6/20/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854**

## Configuration: Body Worn MSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; $\sigma$ = 5.474 S/m; $\varepsilon_r$ = 51.119; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

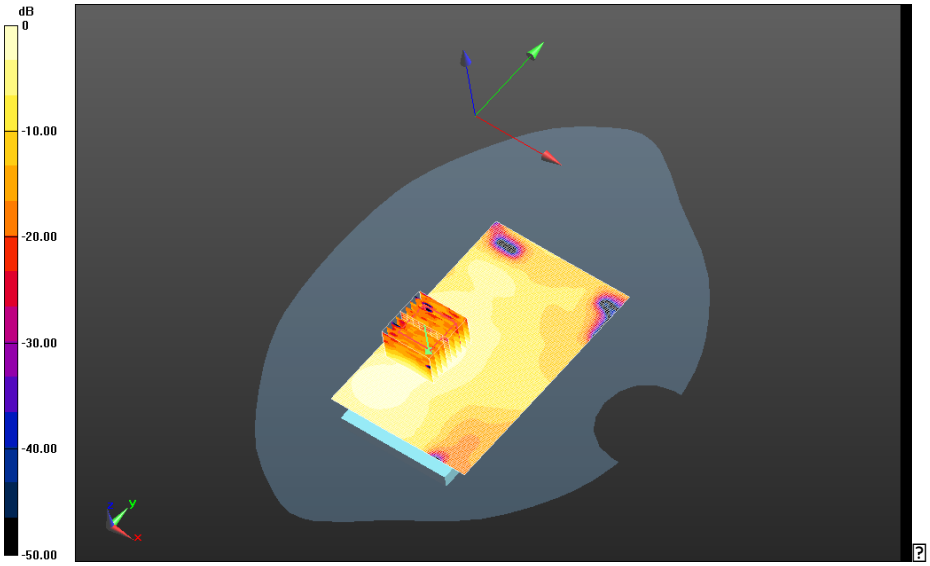
**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.68,4.68,4.68); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):**
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.359 W/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 8.747 V/m; **Power Drift = -0.087 dB**

**Averaged SAR: SAR(1g) = 0.216 W/kg; SAR(10g) = 0.0943 W/kg**
Maximum value of SAR (interpolated) = 0.599 W/kg

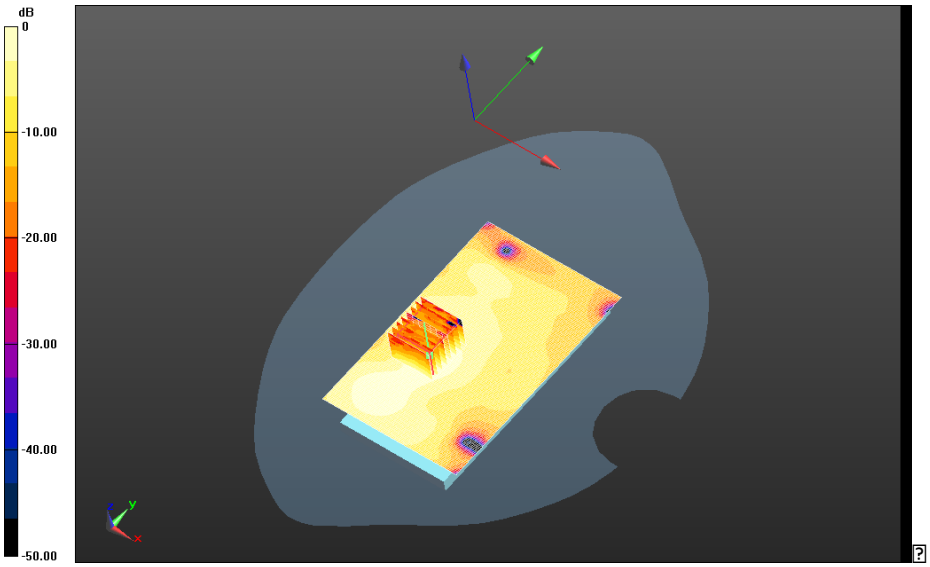



0 dB = 0.347 W/kg = -4.60 dBW/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):**
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.373 W/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 8.895 V/m; **Power Drift = -0.094 dB**

**Averaged SAR: SAR(1g) = 0.232 W/kg; SAR(10g) = 0.0991 W/kg**
Maximum value of SAR (interpolated) = 0.642 W/kg




0 dB = 0.347 W/kg = -4.60 dBW/kg

Date: 6/20/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854**

## Configuration: Body Worn MSL - 802.11a 5500 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz
Medium Parameters used: f=5520 MHz; $\sigma$ = 5.432 S/m; $\varepsilon_r$ = 47.297; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

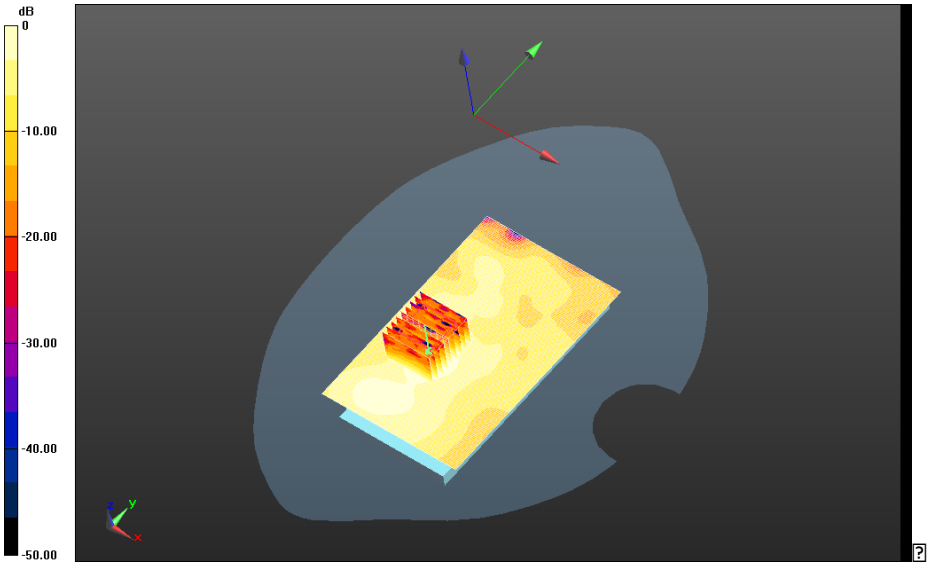
**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.534 W/kg

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 10.471 V/m; **Power Drift = -0.039 dB**

**Averaged SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.135 W/kg**
Maximum value of SAR (interpolated) = 0.841 W/kg




0 dB = 0.517 W/kg = -2.87 dBW/kg

Date: 6/20/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854**

## Configuration: Body Worn MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; $\sigma$ = 6.223 S/m; $\varepsilon_r$ = 49.864; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

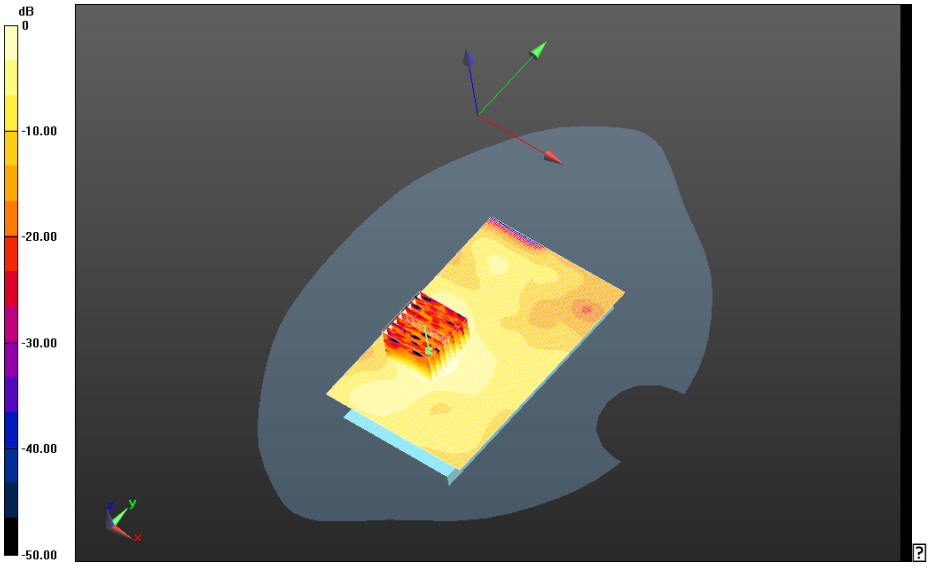
**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.19,4.19,4.19); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.610 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 11.126 V/m; **Power Drift = -0.129 dB**

**Averaged SAR: SAR(1g) = 0.362 W/kg; SAR(10g) = 0.153 W/kg**
Maximum value of SAR (interpolated) = 1.02 W/kg

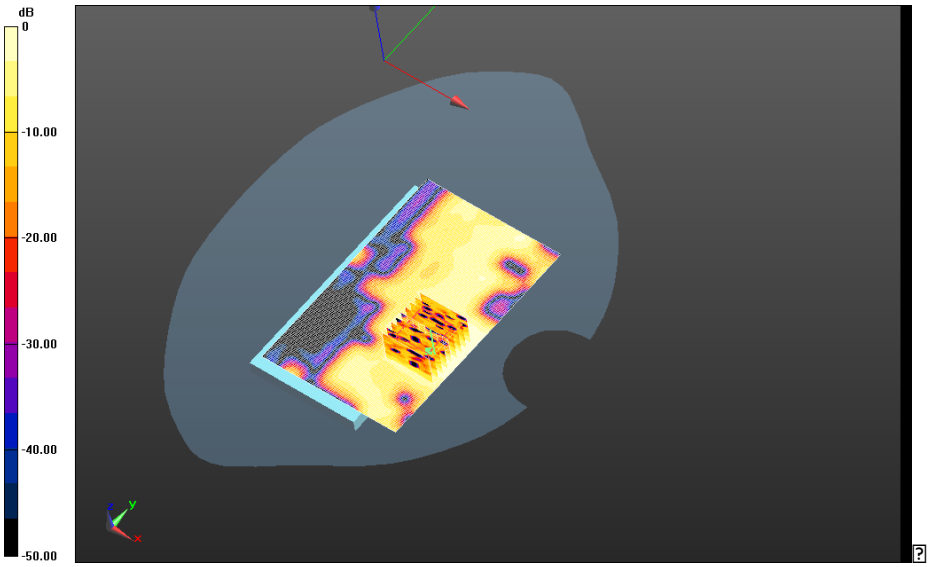



0 dB = 0.623 W/kg = -2.06 dBW/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.113 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.020 V/m; **Power Drift = -0.129 dB**

**Averaged SAR: SAR(1g) = 0.0625 W/kg; SAR(10g) = 0.0255 W/kg**
Maximum value of SAR (interpolated) = 0.175 W/kg




0 dB = 0.623 W/kg = -2.06 dBW/kg

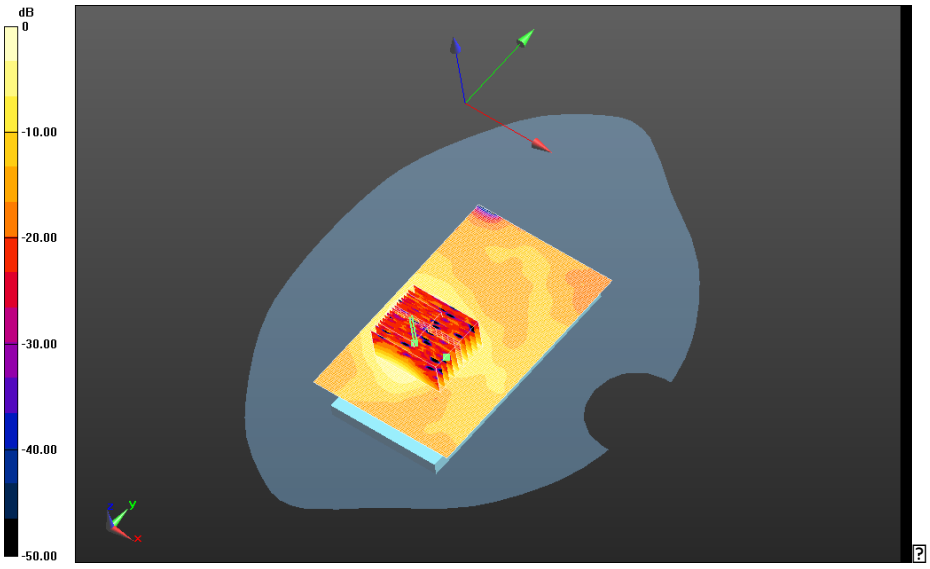
**Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan (91x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.913 W/kg

**Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan (31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 13.535 V/m; **Power Drift = 0.076 dB**

**Averaged SAR: SAR(1g) = 0.532 W/kg; SAR(10g) = 0.220 W/kg**
Maximum value of SAR (interpolated) = 1.42 W/kg

**Body Worn MSL - 802.11a 5800 MHz/Holster Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan 2 (56x46x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 13.535 V/m; **Power Drift = 0.115 dB**

**Averaged SAR: SAR(1g) = 0.544 W/kg; SAR(10g) = 0.224 W/kg**
Maximum value of SAR (interpolated) = 1.45 W/kg

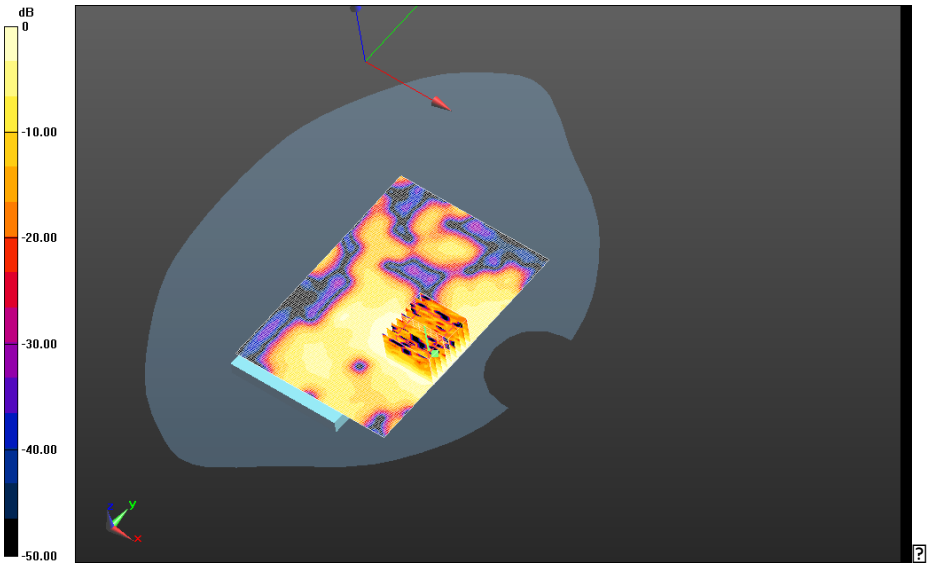



0 dB = 0.114 W/kg = -9.43 dBW/kg

**Body Worn MSL - 802.11a 5800 MHz/Holster Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan (101x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.145 W/kg

**Body Worn MSL - 802.11a 5800 MHz/Holster Device Front - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.518 V/m; **Power Drift = -0.031 dB**

**Averaged SAR: SAR(1g) = 0.0848 W/kg; SAR(10g) = 0.0364 W/kg**
Maximum value of SAR (interpolated) = 0.224 W/kg




0 dB = 0.913 W/kg = -0.40 dBW/kg

# 802.11a, CDMA BC1_power level

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5200 MHz

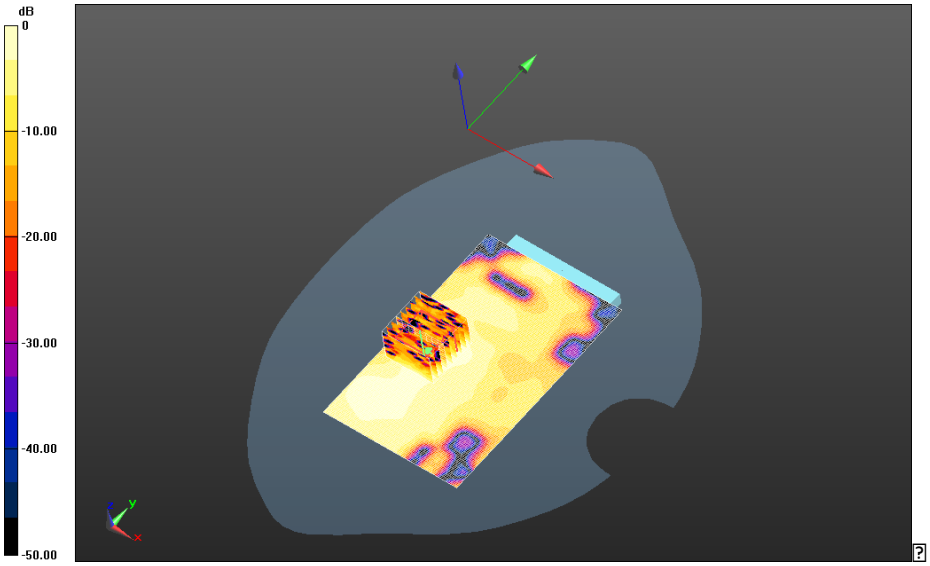
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; $\sigma$ = 5.406 S/m; $\varepsilon_r$ = 49.943; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.68,4.68,4.68); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.221 V/m; **Power Drift = -0.191 dB**

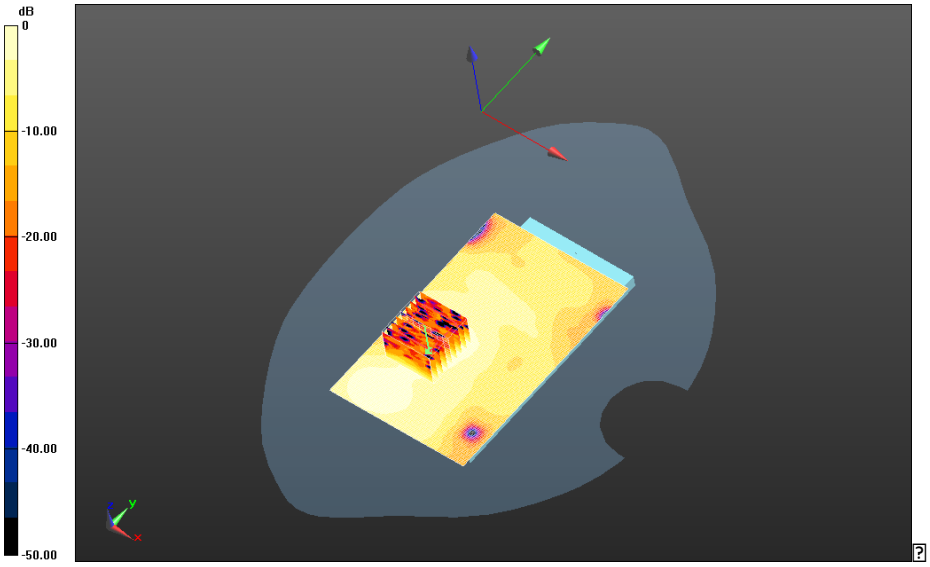
**Averaged SAR: SAR(1g) = 0.0633 W/kg; SAR(10g) = 0.0250 W/kg**
Maximum value of SAR (interpolated) = 0.241 W/kg




0 dB = 0.115 W/kg = -9.39 dBW/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 4.298 V/m; **Power Drift = -0.135 dB**

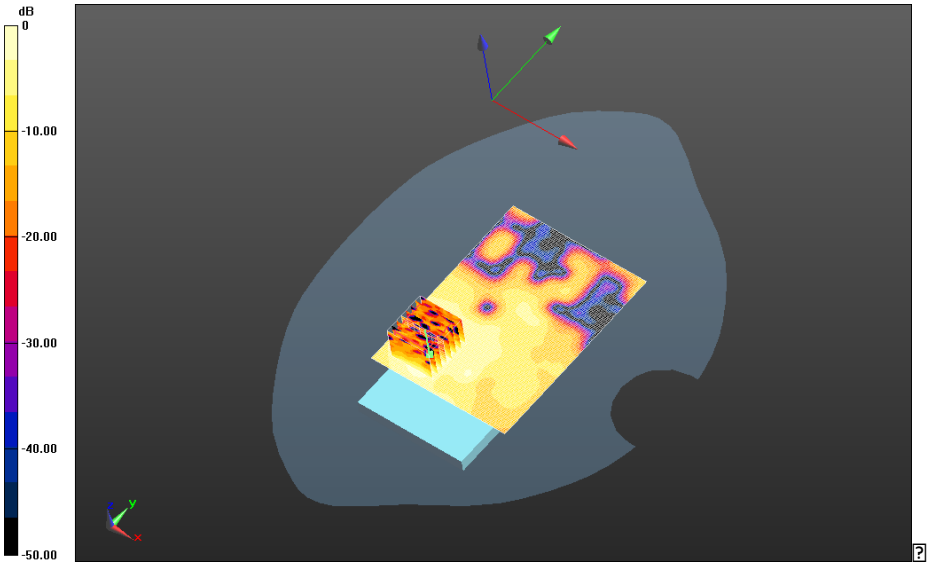
**Averaged SAR: SAR(1g) = 0.161 W/kg; SAR(10g) = 0.0634 W/kg**
Maximum value of SAR (interpolated) = 0.552 W/kg




0 dB = 0.115 W/kg = -9.39 dBW/kg

**Body Worn MSL - 802.11a 5200 MHz/Holster Device Back - 802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.6C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.696 V/m; **Power Drift = -0.088 dB**

**Averaged SAR: SAR(1g) = 0.0943 W/kg; SAR(10g) = 0.0354 W/kg**
Maximum value of SAR (interpolated) = 0.301 W/kg




0 dB = 0.287 W/kg = -5.42 dBW/kg

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5500 MHz

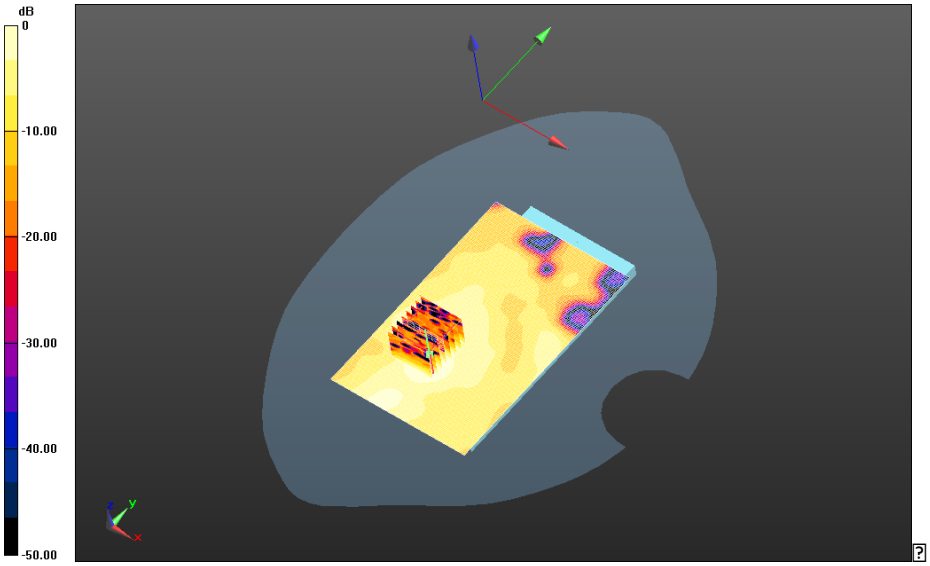
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz
Medium Parameters used: f=5520 MHz; $\sigma$ = 5.913 S/m; $\varepsilon_r$ = 49.261; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11n_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 7.036 V/m; **Power Drift = 0.043 dB**

**Averaged SAR: SAR(1g) = 0.137 W/kg; SAR(10g) = 0.0513 W/kg**
Maximum value of SAR (interpolated) = 0.521 W/kg




0 dB = 0.242 W/kg = -6.16 dBW/kg

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5800 MHz

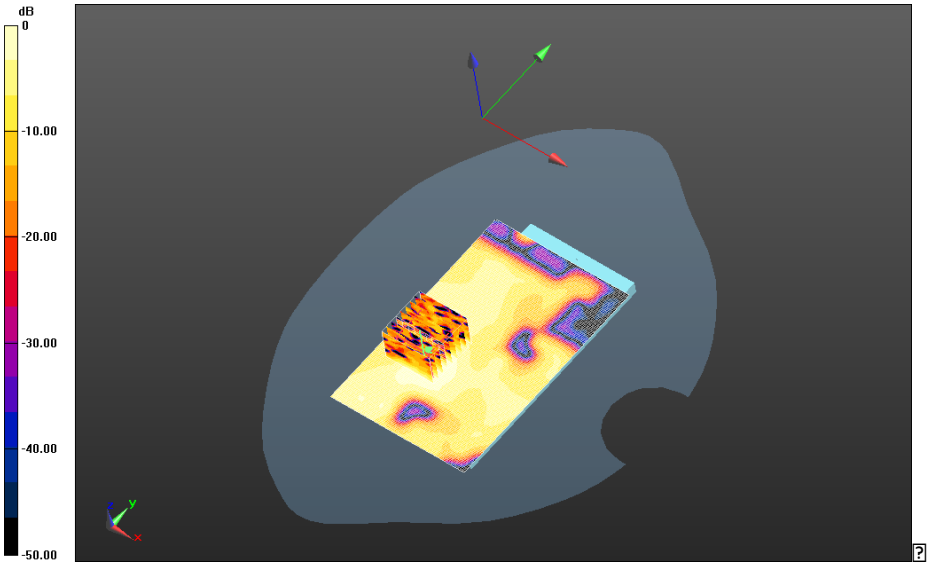
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; $\sigma$ = 6.160 S/m; $\varepsilon_r$ = 48.197; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.19,4.19,4.19); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.653 V/m; **Power Drift = -0.013 dB**

**Averaged SAR: SAR(1g) = 0.0720 W/kg; SAR(10g) = 0.0284 W/kg**
Maximum value of SAR (interpolated) = 0.252 W/kg




0 dB = 0.135 W/kg = -8.70 dBW/kg

# 802.11a, SvLTE_CDMA BC1_25_power level

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5200 MHz

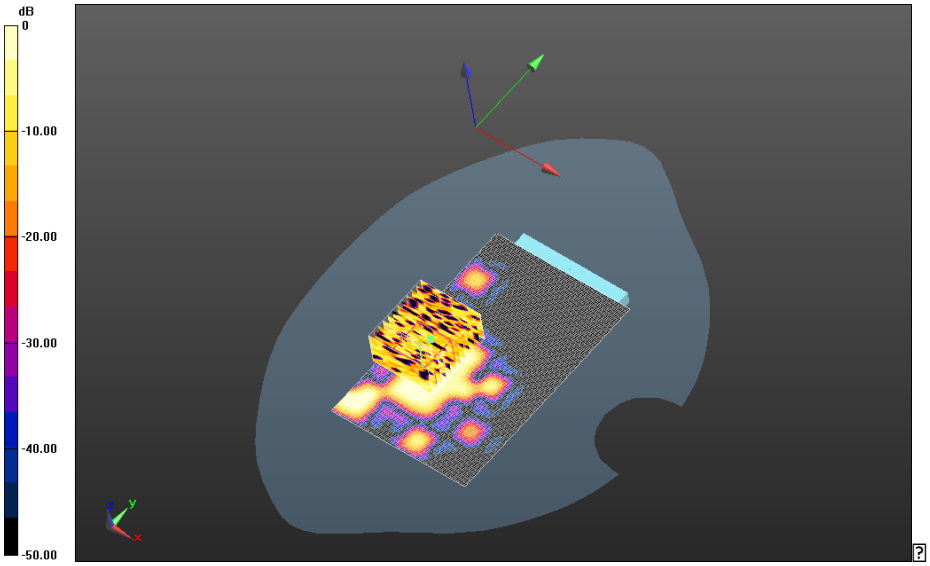
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; $\sigma$ = 5.406 S/m; $\varepsilon_r$ = 49.943; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.68,4.68,4.68); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (51x56x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.386 V/m; **Power Drift = 0.140 dB**

**Averaged SAR: SAR(1g) = 0.0131 W/kg; SAR(10g) = 0.00478 W/kg**
Maximum value of SAR (interpolated) = 0.176 W/kg

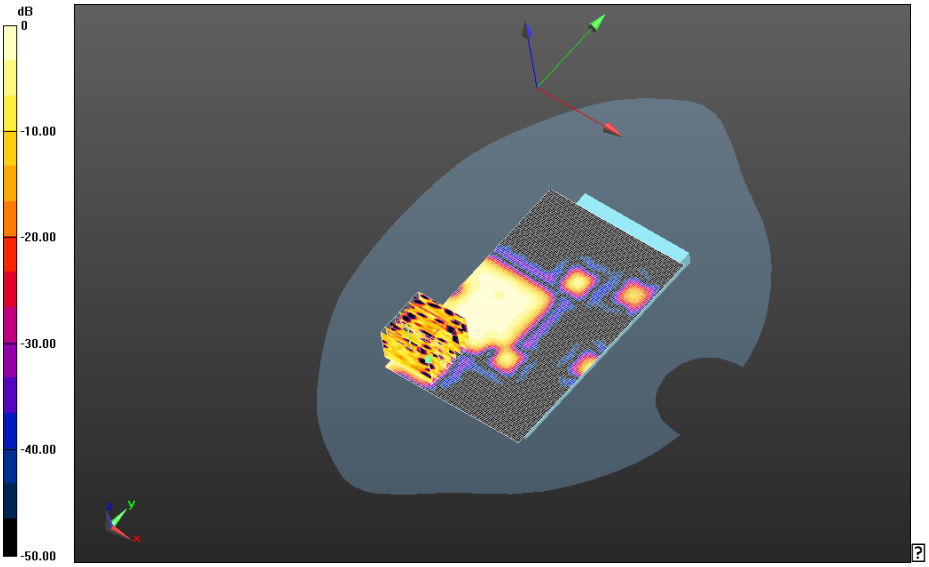



0 dB = 0.0296 W/kg = -15.29 dBW/kg

**Body Worn MSL - 802.11a 5200 MHz/15mm Device Back - 802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.8C/Zoom Scan (41x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.970 V/m; **Power Drift = -0.179 dB**

**Averaged SAR: SAR(1g) = 0.0190 W/kg; SAR(10g) = 0.00593 W/kg**
Maximum value of SAR (interpolated) = 0.243 W/kg




0 dB = 0.0296 W/kg = -15.29 dBW/kg

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5500 MHz

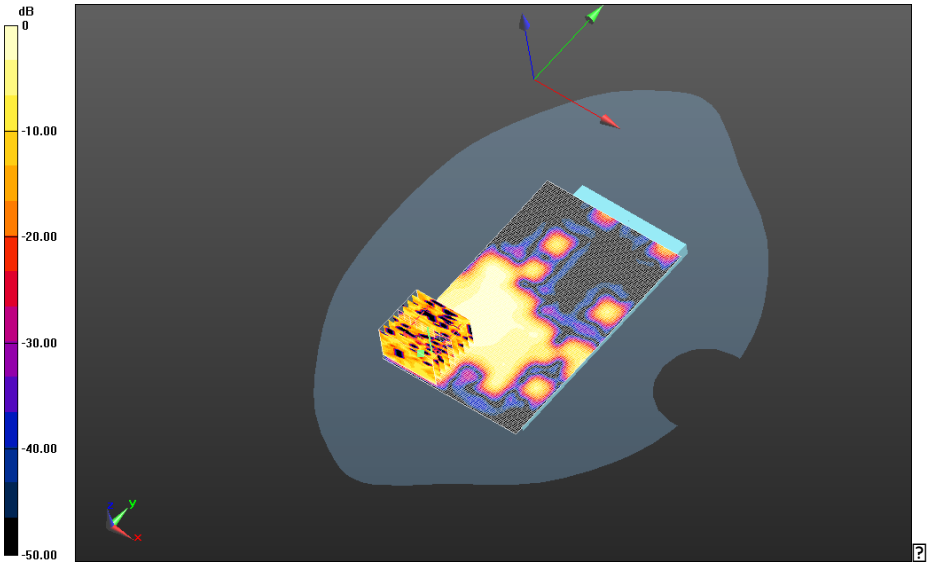
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz
Medium Parameters used: f=5520 MHz; $\sigma$ = 5.913 S/m; $\varepsilon_r$ = 49.261; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (46x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.691 V/m; **Power Drift = 0.033 dB**

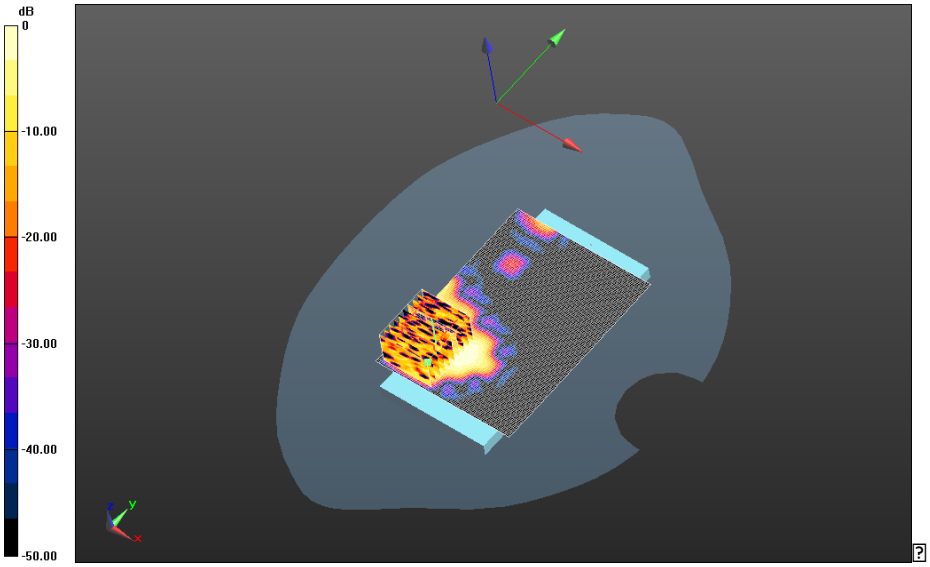
**Averaged SAR: SAR(1g) = 0.0276 W/kg; SAR(10g) = 0.0100 W/kg**
Maximum value of SAR (interpolated) = 0.317 W/kg




0 dB = 0.0509 W/kg = -12.93 dBW/kg

**Body Worn MSL - 802.11a 5500 MHz/Holster Device Back - 802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.8C/Zoom Scan (41x46x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.871 V/m; **Power Drift = 0.115 dB**

**Averaged SAR: SAR(1g) = 0.0271 W/kg; SAR(10g) = 0.0104 W/kg**
Maximum value of SAR (interpolated) = 0.127 W/kg




0 dB = 0.0509 W/kg = -12.93 dBW/kg

Date: 8/9/2013

Test Lab: RIM Testing Services
**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

## Configuration: Body Worn MSL - 802.11a 5800 MHz

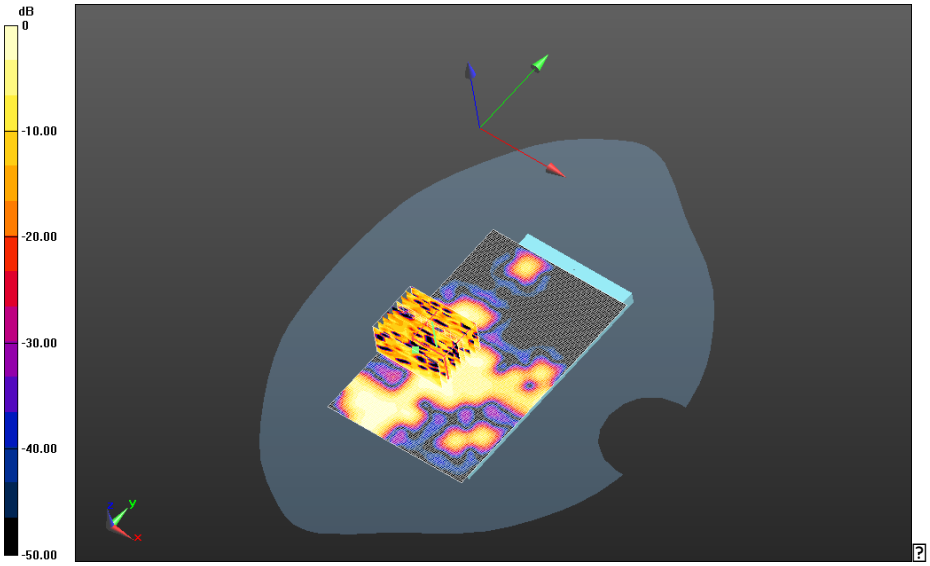
Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; $\sigma$ = 6.160 S/m; $\varepsilon_r$ = 48.197; $\rho$ = 1.000 g/cm$^3$
Phantom section: Flat Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3548; ConvF: (4.19,4.19,4.19); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (56x41x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.146 V/m; **Power Drift = -0.197 dB**

**Averaged SAR: SAR(1g) = 0.0211 W/kg; SAR(10g) = 0.00845 W/kg**
Maximum value of SAR (interpolated) = 0.197 W/kg




0 dB = 0.0481 W/kg = -13.18 dBW/kg