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

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# GSM/GPRS 850

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Date: 7/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

**Configuration: Body Worn MSL - GPRS 850**

Communication System: GPRS 850; Communication System Band: GPRS 850; Frequency: 836.8 MHz

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.970$  S/m;  $\epsilon_r = 53.234$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 = 23.634 V/m; **Power Drift = -0.013 dB**

**Body Worn MSL - GPRS 850/15mm Device Back -**


**GPRS850\_chan190\_amb\_temp\_23.3C\_liq\_temp\_22.2C/Zoom Scan (21x21x36)/Cube 0:**

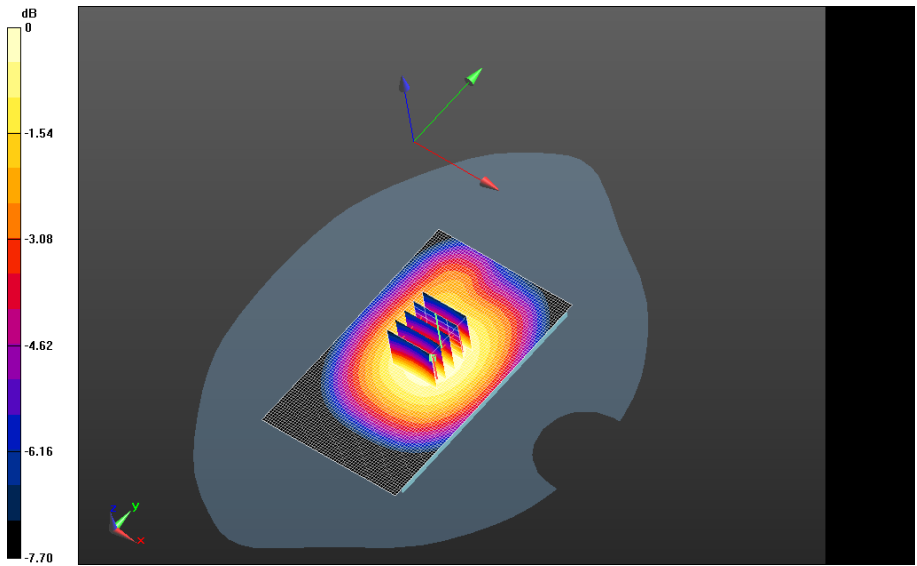
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 23.634 V/m; **Power Drift = -0.013 dB**


**Averaged SAR: SAR(1g) = 0.459 W/kg; SAR(10g) = 0.350 W/kg**

Maximum value of SAR (interpolated) = 0.573 W/kg

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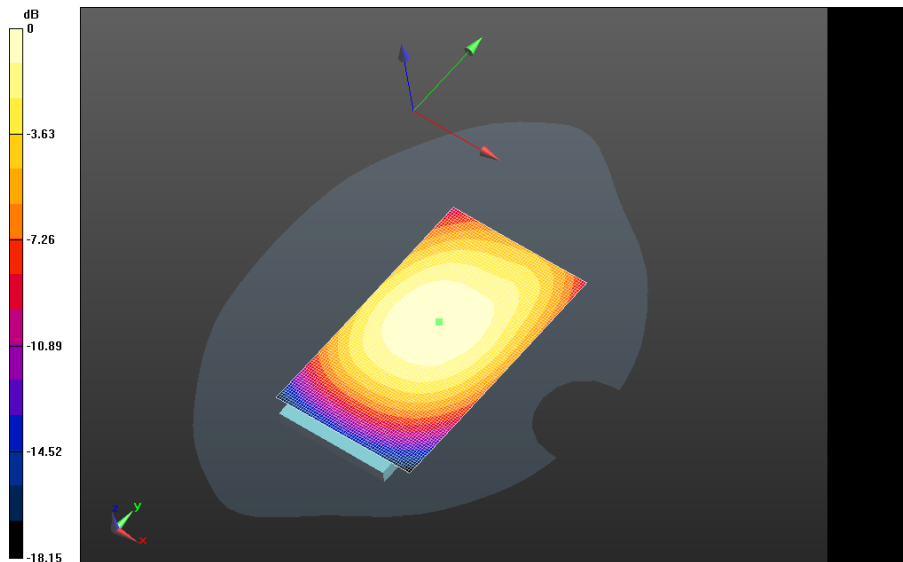


0 dB = 0.503 W/kg = -2.98 dBW/kg


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**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 = 24.088 V/m; **Power Drift = 0.062 dB**

**Fast SAR: SAR(1g) = 0.476 W/kg; SAR(10g) = 0.336 W/kg**  
 Maximum value of SAR (interpolated) = 0.537 W/kg

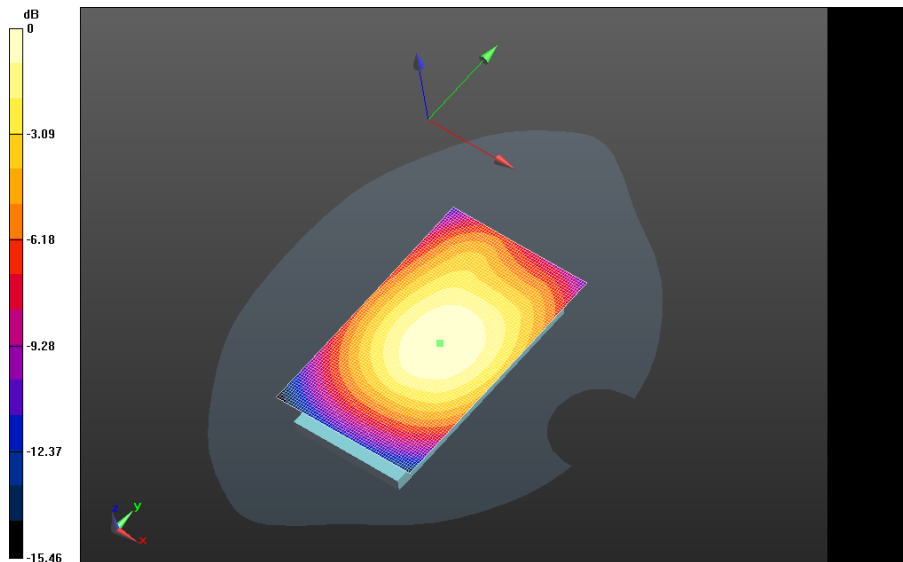


0 dB = 0.503 W/kg = -2.98 dBW/kg


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**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 = 19.523 V/m; **Power Drift = 0.073 dB**


**Fast SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.215 W/kg**  
Maximum value of SAR (interpolated) = 0.345 W/kg



0 dB = 0.537 W/kg = -2.70 dBW/kg

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# UMTS Band V

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Date: 7/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

**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;  $\sigma = 0.970$  S/m;  $\epsilon_r = 53.238$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 = 22.716 V/m; **Power Drift = 0.085 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

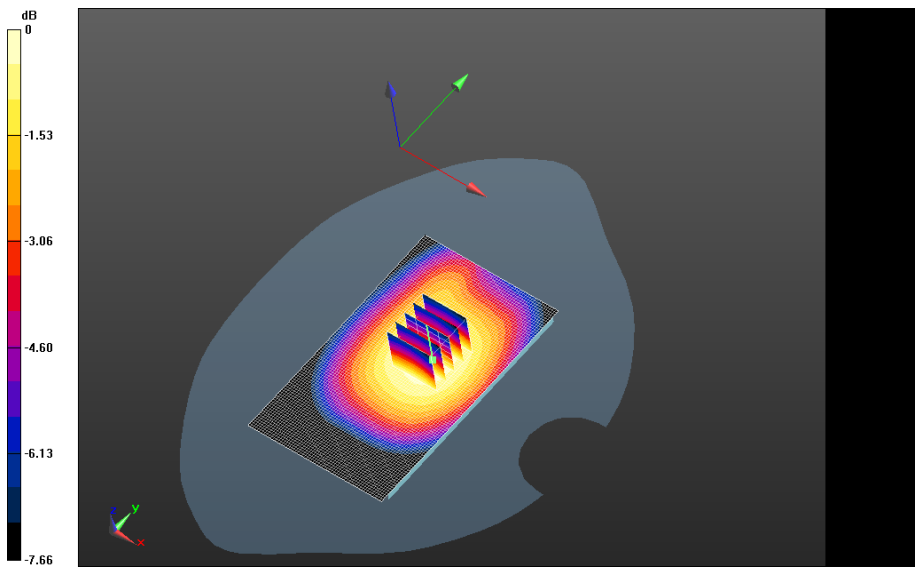
Reference Value = 22.716 V/m; **Power Drift = 0.085 dB**

**Averaged SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.336 W/kg**


Maximum value of SAR (interpolated) = 0.556 W/kg



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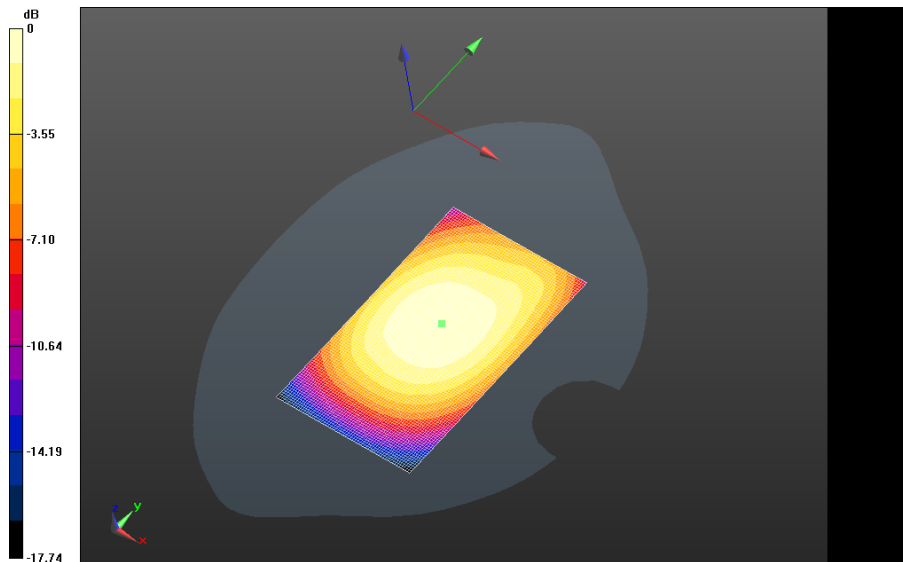


0 dB = 0.486 W/kg = -3.13 dBW/kg


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**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 = 23.027 V/m; **Power Drift = 0.084 dB**

**Fast SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.303 W/kg**  
 Maximum value of SAR (interpolated) = 0.482 W/kg

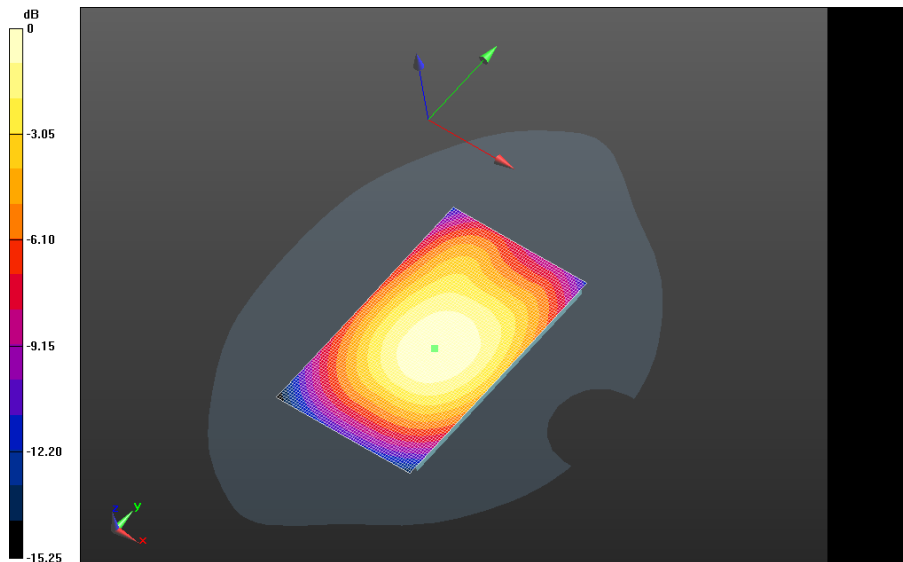


0 dB = 0.486 W/kg = -3.13 dBW/kg


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**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 = 20.699 V/m; **Power Drift = 0.166 dB**


**Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.255 W/kg**  
 Maximum value of SAR (interpolated) = 0.412 W/kg



0 dB = 0.482 W/kg = -3.17 dBW/kg

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# LTE Band 5

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Date: 7/15/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**Configuration: Body Worn MSL - LTE Band 5**

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used:  $f=829$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 53.325$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 - LTE Band 5/15mm Device Back -**

**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan**

**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.918 V/m; **Power Drift = 0.057 dB**

**Body Worn MSL - LTE Band 5/15mm Device Back -**


**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Zoom Scan**

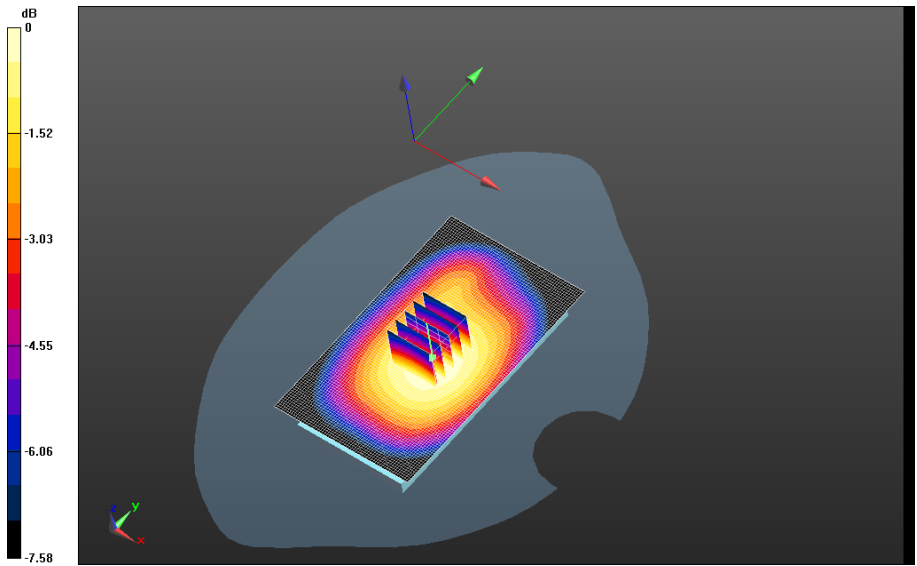
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 20.918 V/m; **Power Drift = 0.057 dB**


**Averaged SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.278 W/kg**

Maximum value of SAR (interpolated) = 0.452 W/kg

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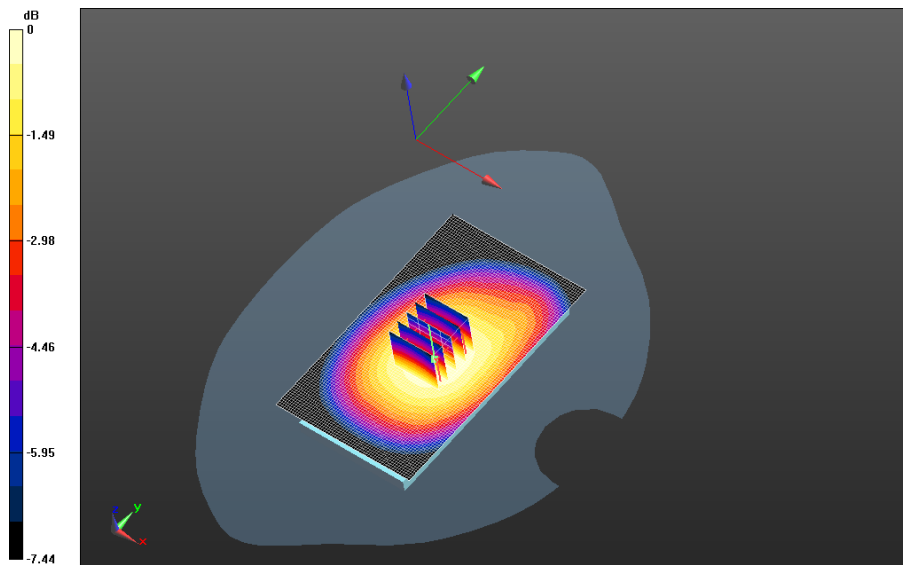
0 dB = 0.399 W/kg = -3.99 dBW/kg

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**Body Worn MSL - LTE Band 5/15mm Device Front -  
 LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.3C\_liq\_temp\_22.3C/Area Scan  
 (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 21.337 V/m; **Power Drift = 0.040 dB**

**Body Worn MSL - LTE Band 5/15mm Device Front -  
 LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.3C\_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 = 21.337 V/m; **Power Drift = 0.040 dB**

**Averaged SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.292 W/kg**  
 Maximum value of SAR (interpolated) = 0.473 W/kg

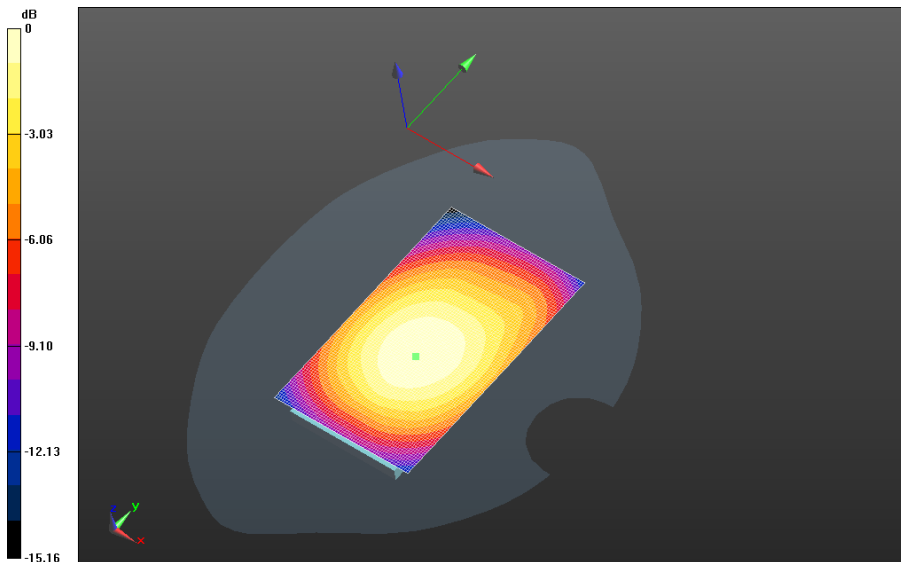


0 dB = 0.399 W/kg = -3.99 dBW/kg

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**Body Worn MSL - LTE Band 5/Holster Device Front -**  
**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.4C\_liq\_temp\_22.3C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 20.088 V/m; **Power Drift = -0.049 dB**

**Fast SAR: SAR(1g) = 0.323 W/kg; SAR(10g) = 0.226 W/kg**  
 Maximum value of SAR (interpolated) = 0.366 W/kg




0 dB = 0.417 W/kg = -3.80 dBW/kg



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# LTE Band 4

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Date: 7/11/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**Configuration: Body Worn MSL - LTE Band 4**

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1745 MHz  
Medium Parameters used:  $f=1745$  MHz;  $\sigma = 1.516$  S/m;  $\epsilon_r = 50.838$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
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 4/15mm Device Back -**


**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.4C\_liq\_temp\_22.2C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.561 W/kg

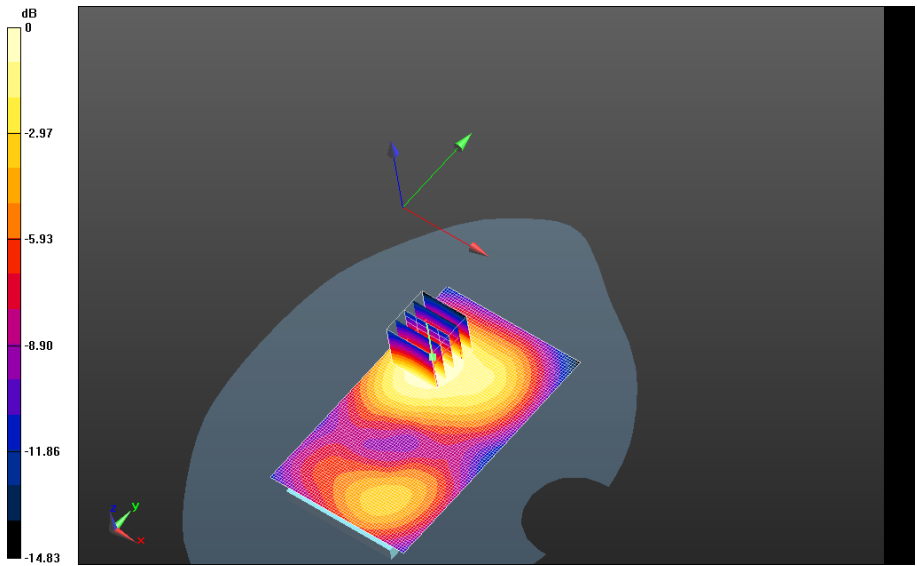
**Body Worn MSL - LTE Band 4/15mm Device Back -**

**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.4C\_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 = 9.374 V/m; **Power Drift = -0.169 dB**


**Averaged SAR: SAR(1g) = 0.477 W/kg; SAR(10g) = 0.299 W/kg**

Maximum value of SAR (interpolated) = 0.740 W/kg

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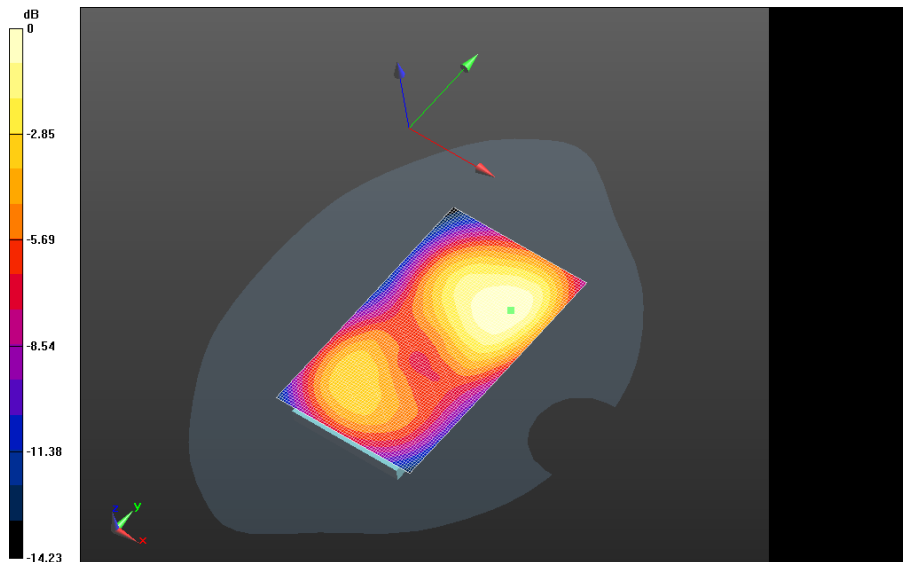


0 dB = 0.561 W/kg = -2.51 dBW/kg


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**Body Worn MSL - LTE Band 4/15mm Device Front -  
LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.8C\_liq\_temp\_22.8C/Area Scan  
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.115 V/m; Power Drift = 0.033 dB**

**Fast SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.271 W/kg  
Maximum value of SAR (interpolated) = 0.508 W/kg**

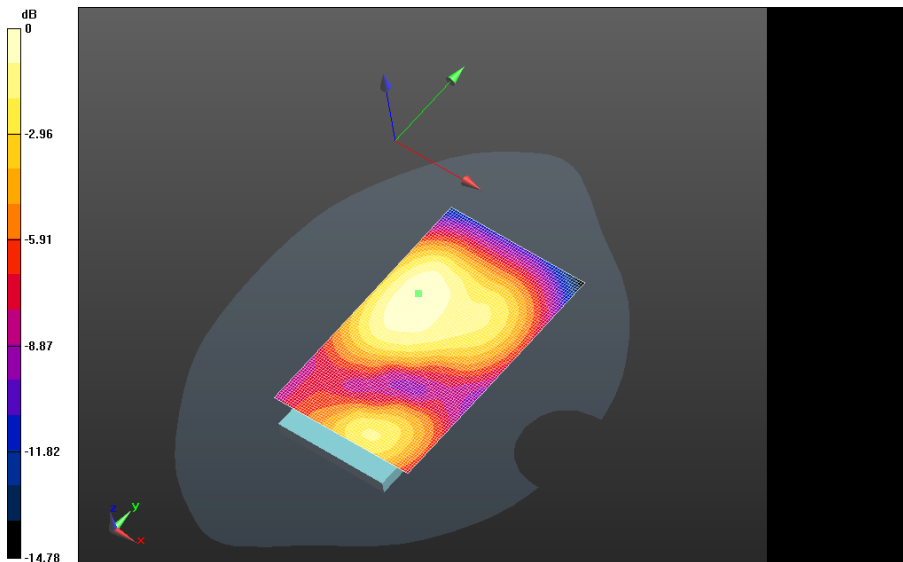


0 dB = 0.561 W/kg = -2.51 dBW/kg


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**Body Worn MSL - LTE Band 4/Holster Device Back -**  
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.8C\_liq\_temp\_22.2C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 9.551 V/m; **Power Drift = -0.038 dB**


**Fast SAR: SAR(1g) = 0.290 W/kg; SAR(10g) = 0.184 W/kg**  
 Maximum value of SAR (interpolated) = 0.343 W/kg



0 dB = 0.508 W/kg = -2.94 dBW/kg

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# UMTS Band IV

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Date: 7/11/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**Configuration: Body Worn MSL - UMTS IV**

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1732.6 MHz

Medium Parameters used:  $f=1732.6$  MHz;  $\sigma = 1.499$  S/m;  $\epsilon_r = 50.903$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 IV/15mm Device Back -**

**UMTS\_IV\_chan1413\_amb\_temp\_22.9C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.305 V/m; **Power Drift = -0.045 dB**

**Body Worn MSL - UMTS IV/15mm Device Back -**


**UMTS\_IV\_chan1413\_amb\_temp\_22.9C\_liq\_temp\_22.1C/Zoom Scan (26x26x36)/Cube 0:**

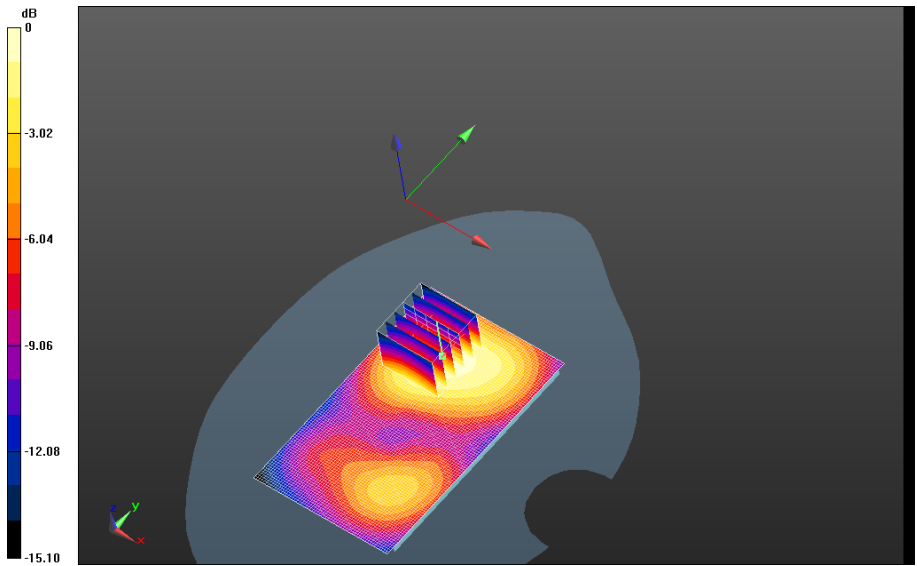
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.305 V/m; **Power Drift = -0.045 dB**

**Averaged SAR: SAR(1g) = 0.560 W/kg; SAR(10g) = 0.353 W/kg**


Maximum value of SAR (interpolated) = 0.868 W/kg

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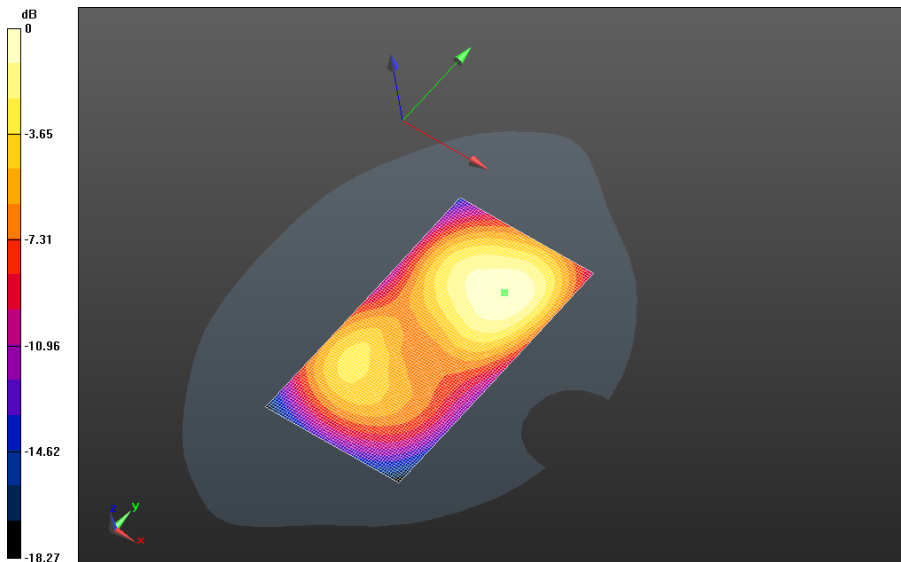
0 dB = 0.653 W/kg = -1.85 dBW/kg




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**Body Worn MSL - UMTS IV/15mm Device Front -**  
**UMTS\_IV\_chan1413\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Area Scan (61x111x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.018 V/m; **Power Drift = 0.015 dB**

**Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.353 W/kg**  
Maximum value of SAR (interpolated) = 0.671 W/kg

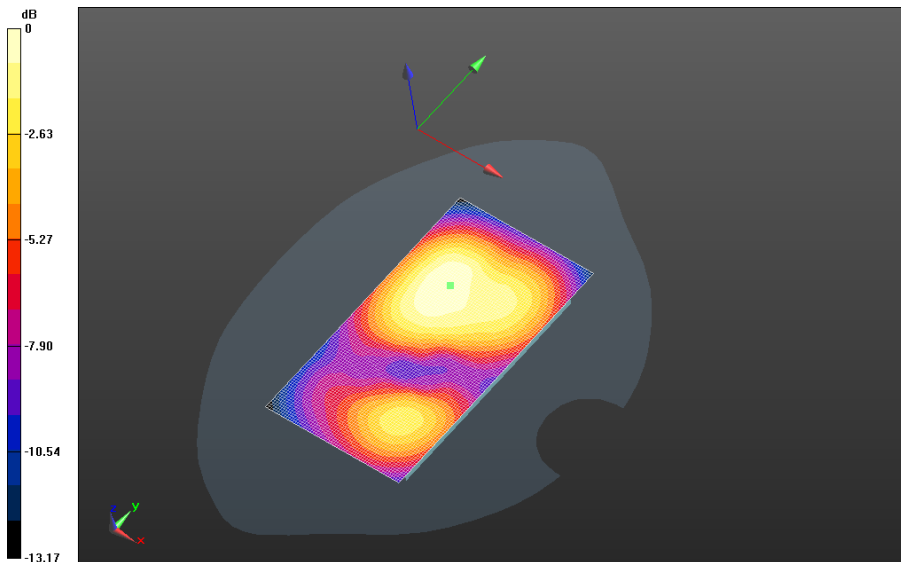


0 dB = 0.653 W/kg = -1.85 dBW/kg


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**Body Worn MSL - UMTS IV/Holster Device Back -**  
**UMTS\_IV\_chan1413\_amb\_temp\_23.1C\_liq\_temp\_22.1C/Area Scan (61x111x1):** Interpolated  
 grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 9.446 V/m; **Power Drift = 0.097 dB**


**Fast SAR: SAR(1g) = 0.328 W/kg; SAR(10g) = 0.205 W/kg**  
 Maximum value of SAR (interpolated) = 0.388 W/kg



0 dB = 0.671 W/kg = -1.73 dBW/kg

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# GSM/GPRS 1900

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Date: 7/8/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

**Configuration: Body Worn MSL - GPRS 1900**

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 -**

**GSM1900\_chan661\_amb\_temp\_24.3C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.645 V/m; **Power Drift = -0.045 dB**

**Body Worn MSL - GPRS 1900/15mm Device Back -**


**GSM1900\_chan661\_amb\_temp\_24.3C\_liq\_temp\_22.7C/Zoom Scan (26x26x36)/Cube 0:**

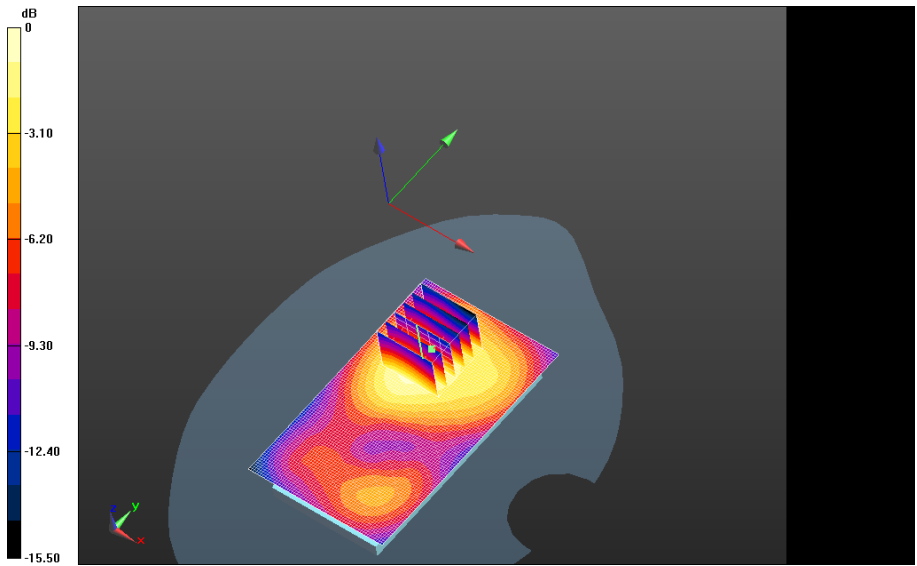
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.645 V/m; **Power Drift = -0.045 dB**


**Averaged SAR: SAR(1g) = 0.291 W/kg; SAR(10g) = 0.182 W/kg**

Maximum value of SAR (interpolated) = 0.454 W/kg

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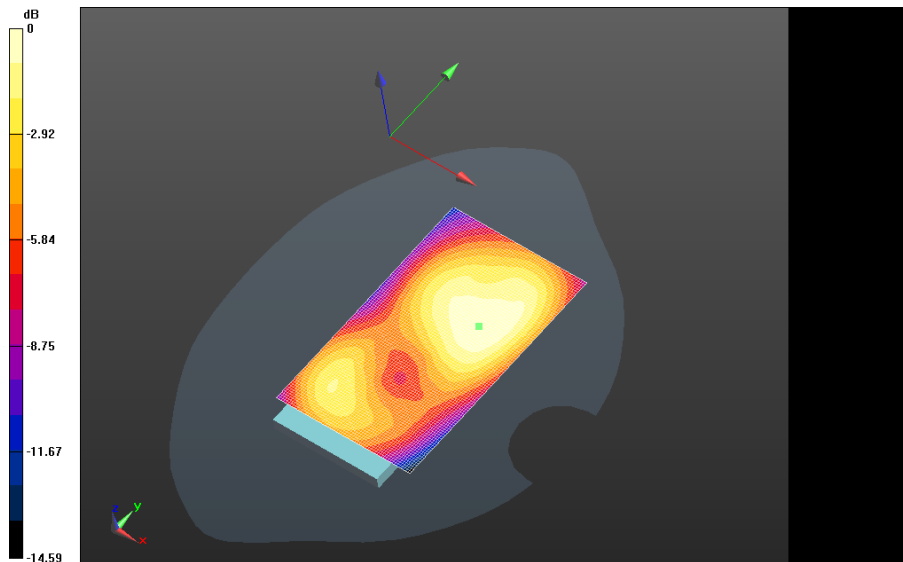


0 dB = 0.342 W/kg = -4.66 dBW/kg


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**Body Worn MSL - GPRS 1900/15mm Device Front - GSM1900\_chan661\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 6.175 V/m; **Power Drift = 0.040 dB**

**Fast SAR: SAR(1g) = 0.183 W/kg; SAR(10g) = 0.115 W/kg**  
 Maximum value of SAR (interpolated) = 0.216 W/kg

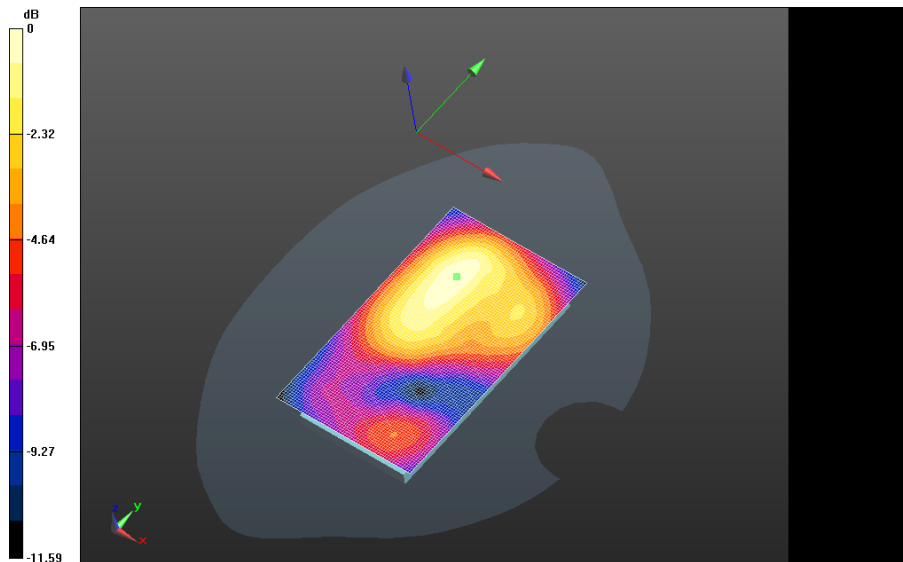


0 dB = 0.342 W/kg = -4.66 dBW/kg


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**Body Worn MSL - GPRS 1900/Holster Device Back - GSM1900\_chan661\_amb\_temp\_24.2C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 7.868 V/m; **Power Drift = 0.035 dB**

**Fast SAR: SAR(1g) = 0.170 W/kg; SAR(10g) = 0.102 W/kg**  
 Maximum value of SAR (interpolated) = 0.207 W/kg




0 dB = 0.216 W/kg = -6.66 dBW/kg

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# UMTS Band II



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Date: 7/8/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461**

**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;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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\_22.9C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.537 V/m; **Power Drift = -0.00944 dB**

**Body Worn MSL - UMTS II/15mm Device Back -**


**UMTS\_II\_chan9400\_amb\_temp\_22.9C\_liq\_temp\_22.5C/Zoom Scan (26x26x36)/Cube 0:**

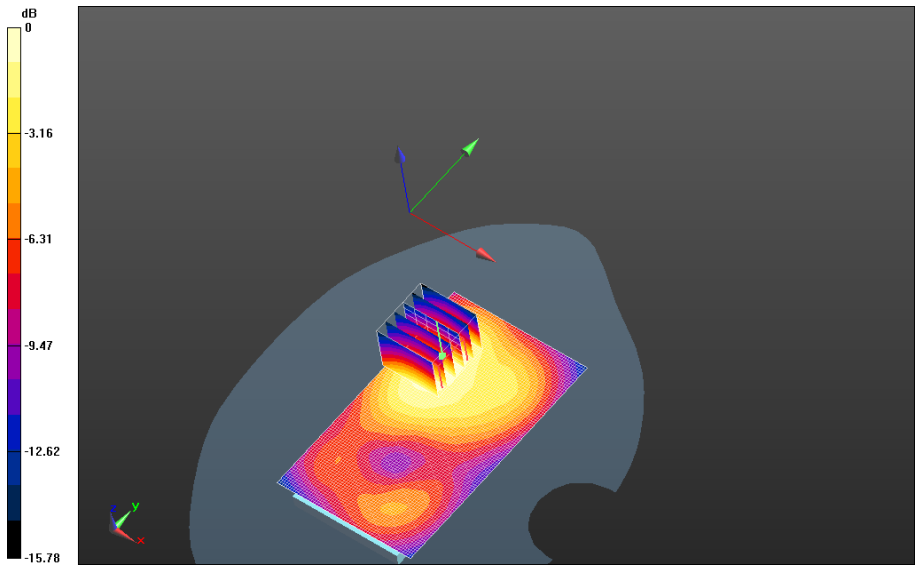
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.537 V/m; **Power Drift = -0.00944 dB**


**Averaged SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.263 W/kg**

Maximum value of SAR (interpolated) = 0.670 W/kg

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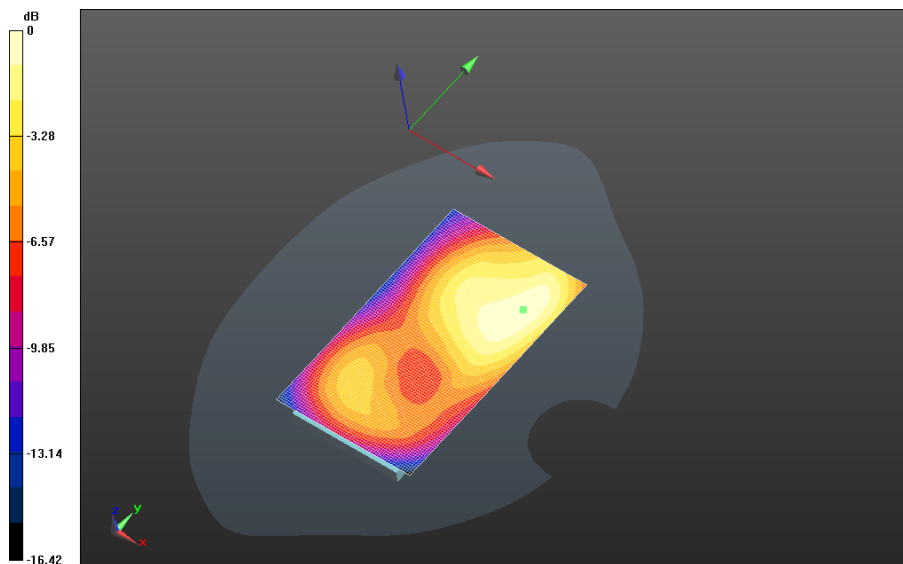


0 dB = 0.497 W/kg = -3.04 dBW/kg


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**Body Worn MSL - UMTS II/15mm Device Front - UMTS\_II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.731 V/m; **Power Drift = 0.040 dB**

**Fast SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.230 W/kg**  
Maximum value of SAR (interpolated) = 0.462 W/kg

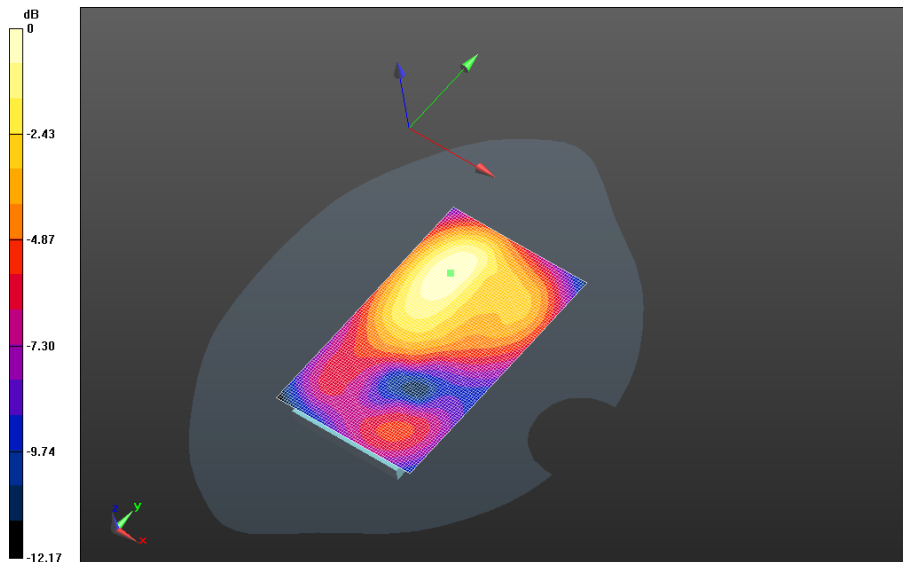


0 dB = 0.497 W/kg = -3.04 dBW/kg


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**Body Worn MSL - UMTS II/Holster Device Back - UMTS\_II\_chan9400\_amb\_temp\_24.0C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.084 V/m; **Power Drift = -0.107 dB**


**Fast SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.174 W/kg**  
Maximum value of SAR (interpolated) = 0.345 W/kg



0 dB = 0.462 W/kg = -3.35 dBW/kg

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# 802.11b

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Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**Configuration: Body Worn MSL - 802.11b**

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 1.991$  S/m;  $\epsilon_r = 50.790$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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 - 802.11b/15mm Device Back -**

**802.11b\_chan6\_amb\_temp\_23.2C\_liq\_temp\_21.5C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 9.303 V/m; **Power Drift = -0.00631 dB**

**Body Worn MSL - 802.11b/15mm Device Back -**

**802.11b\_chan6\_amb\_temp\_23.2C\_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 = 9.303 V/m; **Power Drift = -0.00631 dB**

**Averaged SAR: SAR(1g) = 0.230 W/kg; SAR(10g) = 0.126 W/kg**

Maximum value of SAR (interpolated) = 0.454 W/kg

**Body Worn MSL - 802.11b/15mm Device Back -**


**802.11b\_chan6\_amb\_temp\_23.2C\_liq\_temp\_21.5C/Zoom Scan 2 (31x36x36)/Cube 0:**

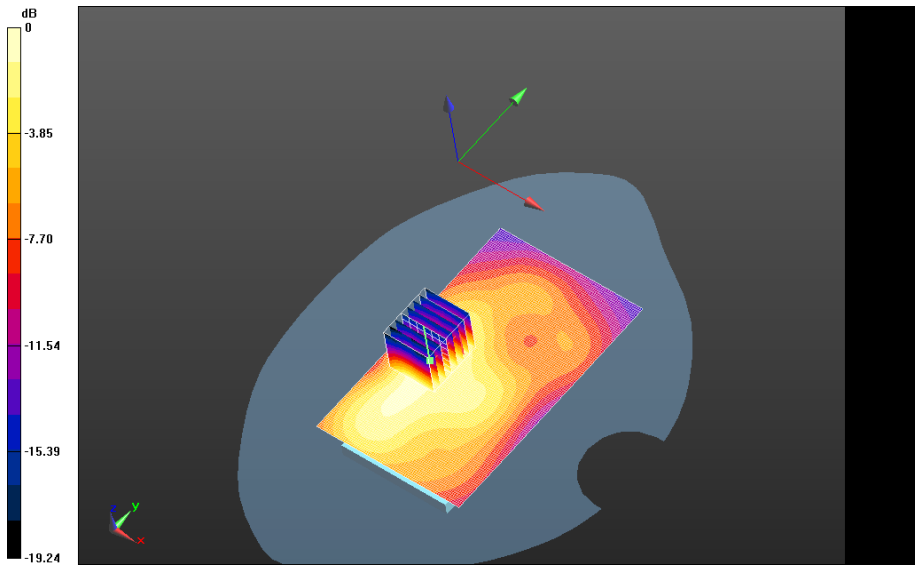
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 9.303 V/m; **Power Drift = 0.045 dB**


**Averaged SAR: SAR(1g) = 0.233 W/kg; SAR(10g) = 0.128 W/kg**

Maximum value of SAR (interpolated) = 0.457 W/kg

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

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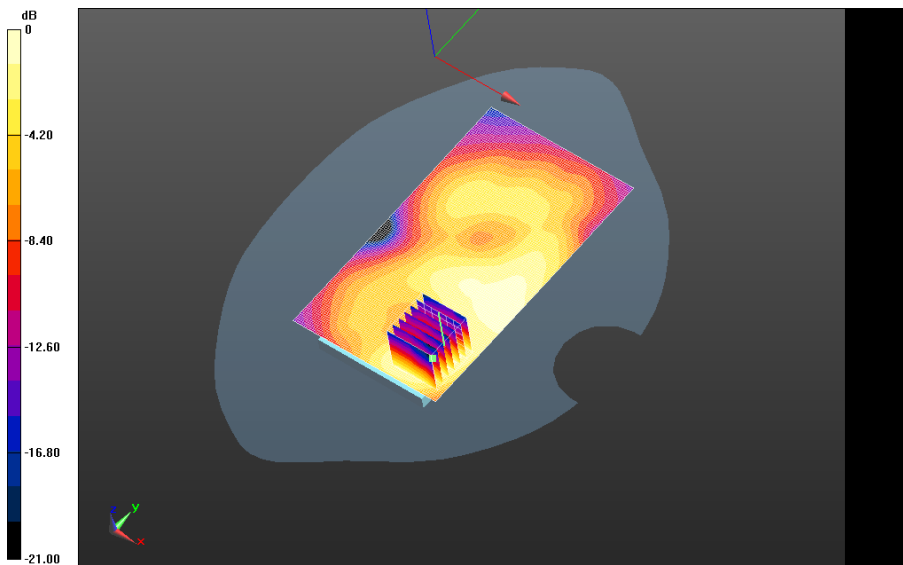
**Body Worn MSL - 802.11b/15mm Device Front -**

**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Area Scan (81x141x1):** Interpolated grid:  
 dx=1.200 mm, dy=1.200 mm  
 Reference Value = 6.860 V/m; **Power Drift = 0.404 dB**

**Body Worn MSL - 802.11b/15mm Device Front -**


**802.11b\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Zoom Scan (31x31x36)/Cube 0:**  
 Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 6.860 V/m; **Power Drift = 0.404 dB**

**Averaged SAR: SAR(1g) = 0.113 W/kg; SAR(10g) = 0.0651 W/kg**  
 Maximum value of SAR (interpolated) = 0.205 W/kg



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



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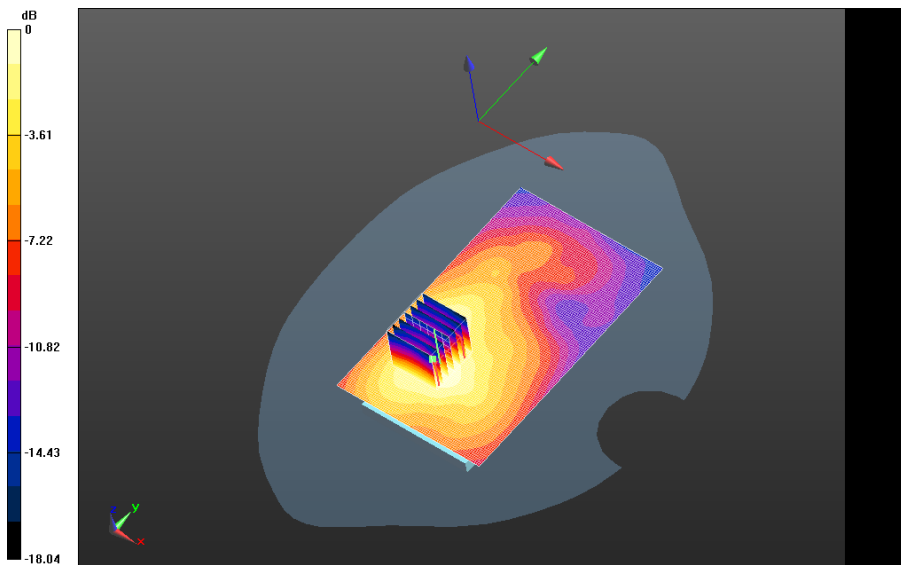
**Body Worn MSL - 802.11b/Holster Device Back -**

**802.11b\_chan6\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid:  
 dx=1.200 mm, dy=1.200 mm  
 Reference Value = 6.906 V/m; **Power Drift = -0.038 dB**


**Body Worn MSL - 802.11b/Holster Device Back -**

**802.11b\_chan6\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Zoom Scan (31x31x36)/Cube 0:**  
 Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
 Reference Value = 6.906 V/m; **Power Drift = -0.038 dB**


**Averaged SAR: SAR(1g) = 0.193 W/kg; SAR(10g) = 0.112 W/kg**  
 Maximum value of SAR (interpolated) = 0.351 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

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# Bluetooth

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Date: 7/19/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

### **Configuration: Body Worn MSL - Bluetooth**

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.998$  S/m;  $\epsilon_r = 50.773$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00707 W/kg

#### **Body Worn MSL - Bluetooth/15mm Device Back -**

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (31x31x36)/Cube 0:**

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.937 V/m; **Power Drift = -0.151 dB**

**Averaged SAR: SAR(1g) = 0.00543 W/kg; SAR(10g) = 0.00249 W/kg**

Maximum value of SAR (interpolated) = 0.0106 W/kg

#### **Body Worn MSL - Bluetooth/15mm Device Back -**


**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan 2 (31x46x36)/Cube 0:**

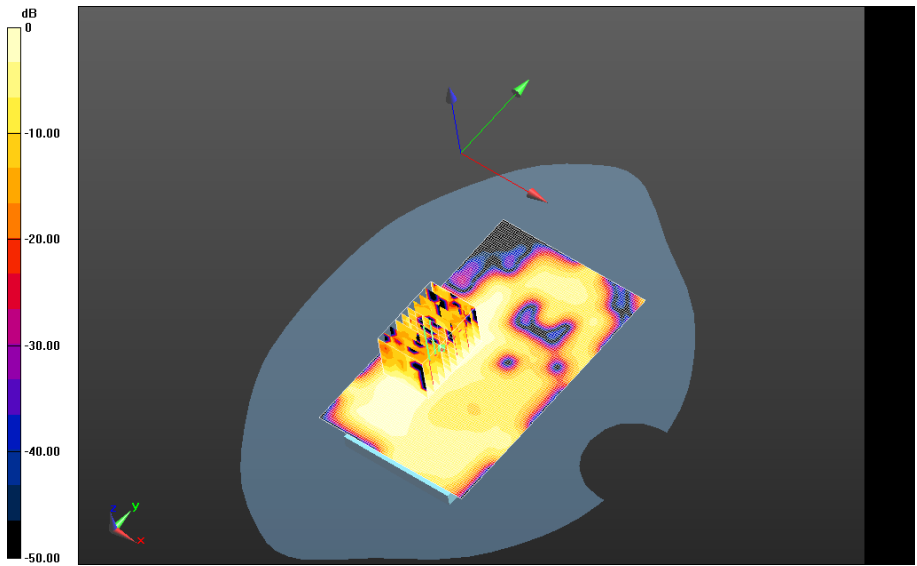
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.937 V/m; **Power Drift = 0.012 dB**


**Averaged SAR: SAR(1g) = 0.00540 W/kg; SAR(10g) = 0.00243 W/kg**

Maximum value of SAR (interpolated) = 0.0121 W/kg


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0 dB = 0.00734 W/kg = -21.34 dBW/kg

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# 802.11a (RFY111LW)

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Date: 7/23/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461/2FFFE4E2**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5180$  MHz;  $\sigma = 5.434$  S/m;  $\epsilon_r = 49.846$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
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) = 0.756 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**

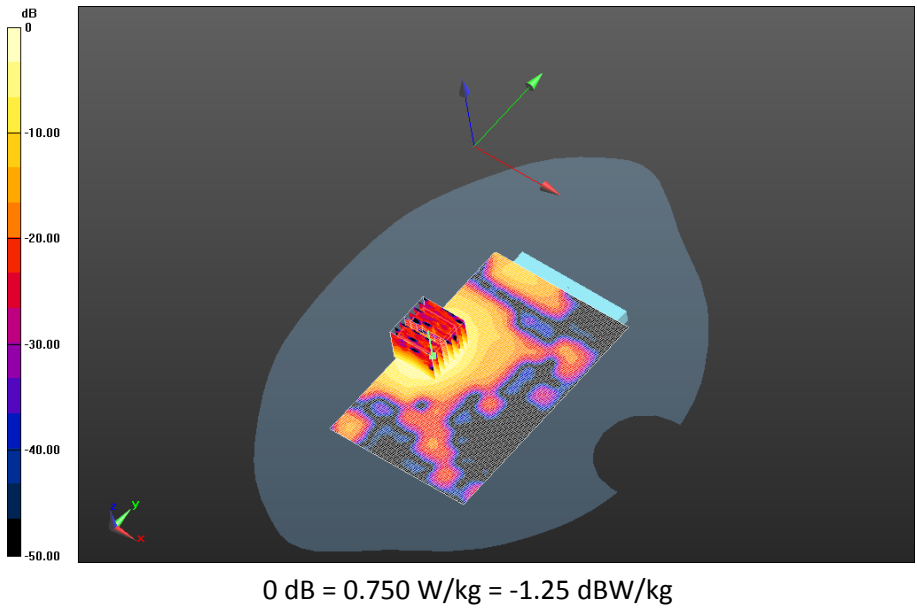
**(36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm


Reference Value = 12.273 V/m; Power Drift = 0.019 dB

**Averaged SAR: SAR(1g) = 0.417 W/kg; SAR(10g) = 0.147 W/kg**

Maximum value of SAR (interpolated) = 1.39 W/kg

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Date: 8/14/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5260 MHz

Medium Parameters used:  $f=5260$  MHz;  $\sigma = 5.473$  S/m;  $\epsilon_r = 48.635$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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\_chan52\_low\_band\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Area Scan (81x141x1):**

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.952 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 (31x31x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

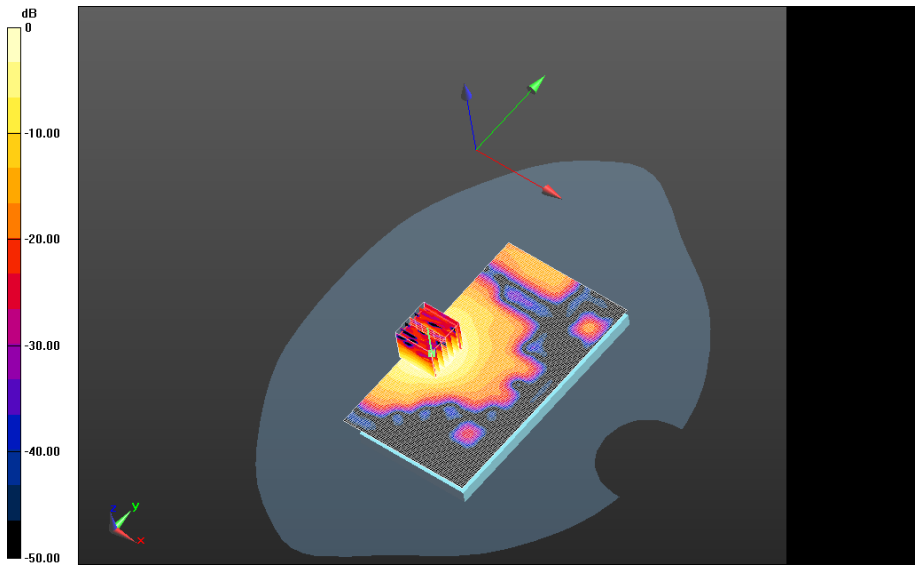
Reference Value = 14.401 V/m; **Power Drift = -0.025 dB**

**Averaged SAR: SAR(1g) = 0.508 W/kg; SAR(10g) = 0.185 W/kg**


Maximum value of SAR (interpolated) = 1.75 W/kg



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0 dB = 0.942 W/kg = -0.26 dBW/kg

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Date: 8/14/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**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;  $\sigma = 5.804$  S/m;  $\epsilon_r = 47.629$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section


**DASY Configuration:**

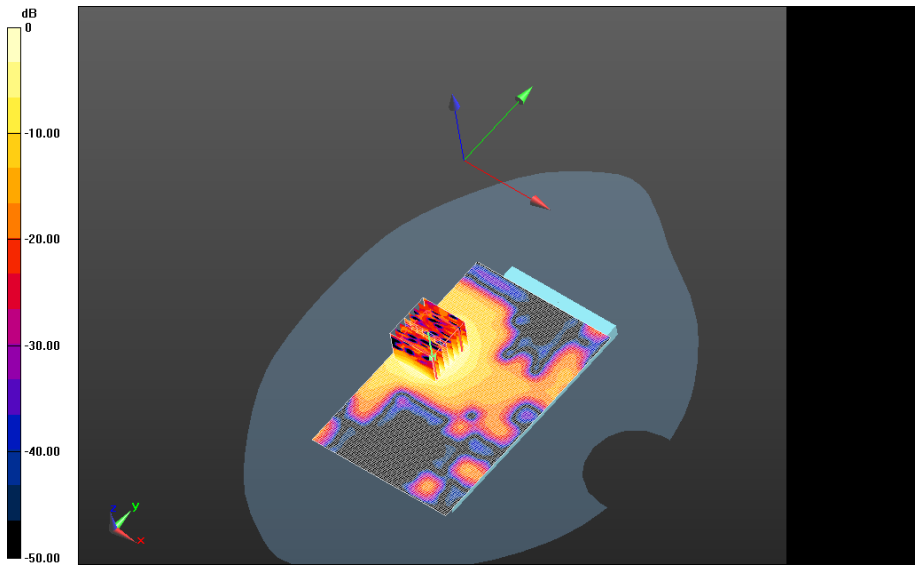
- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan104\_upper\_band1\_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) = 0.512 W/kg


**Body Worn MSL - 802.11a 5500 MHz/15mm Device Back - 802.11a\_chan104\_upper\_band1\_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 = 10.442 V/m; **Power Drift = -0.138 dB**

**Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.0963 W/kg**  
Maximum value of SAR (interpolated) = 0.969 W/kg

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0 dB = 0.513 W/kg = -2.90 dBW/kg

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Date: 7/23/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461/2FFFE4E2**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5520$  MHz;  $\sigma = 5.880$  S/m;  $\epsilon_r = 48.757$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Flat Section


**DASY Configuration:**

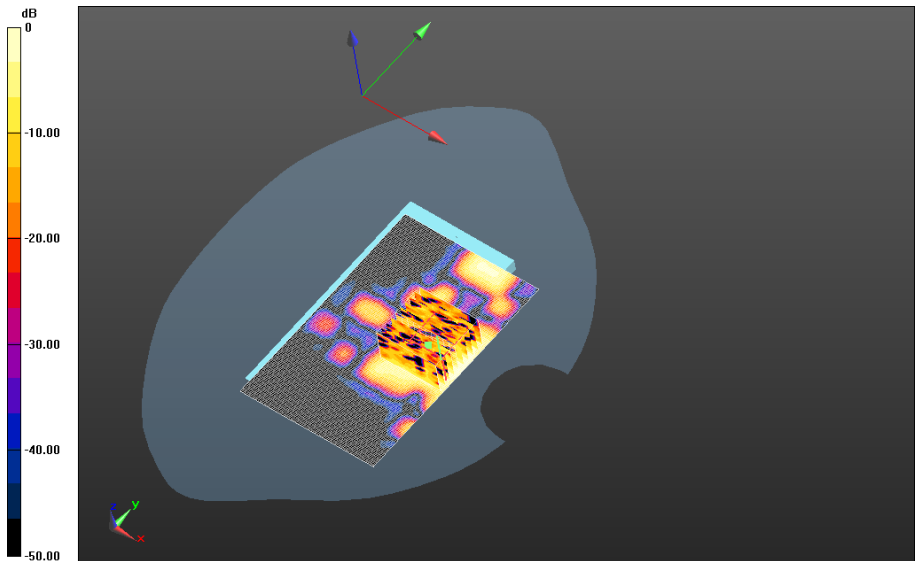
- Probe: EX3DV4 - SN3548; ConvF: (4.15,4.15,4.15); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5500 MHz/15mm Device Front - 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) = 0.0913 W/kg


**Body Worn MSL - 802.11a 5500 MHz/15mm Device Front - 802.11a\_chan104\_upper\_bandI\_Amb\_Temp\_23.4C\_Liquid\_Temp\_21.7C/Zoom Scan (51x46x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 4.161 V/m; Power Drift = -0.093 dB

**Averaged SAR: SAR(1g) = 0.0401 W/kg; SAR(10g) = 0.0147 W/kg**  
Maximum value of SAR (interpolated) = 0.357 W/kg

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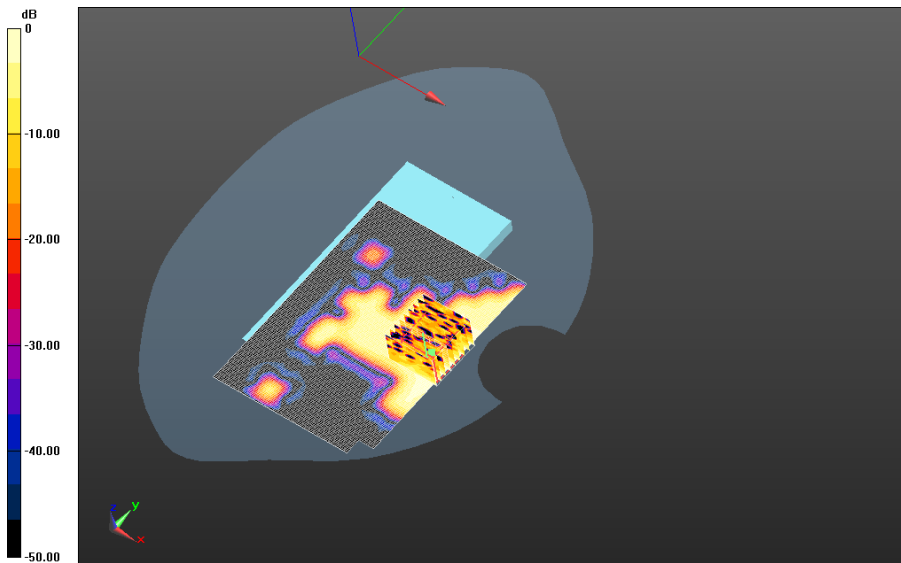
0 dB = 1.30 W/kg = 1.14 dBW/kg

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**Body Worn MSL - 802.11a 5500 MHz/Holster Device Front - 802.11a\_chan104\_upper\_band1\_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) = 0.0627 W/kg

**Body Worn MSL - 802.11a 5500 MHz/Holster Device Front - 802.11a\_chan104\_upper\_band1\_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 = 4.023 V/m; Power Drift = 0.045 dB

**Averaged SAR: SAR(1g) = 0.0340 W/kg; SAR(10g) = 0.0129 W/kg**  
 Maximum value of SAR (interpolated) = 0.124 W/kg



0 dB = 0.438 W/kg = -3.59 dBW/kg

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Date: 8/14/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2**

**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;  $\sigma = 5.910$  S/m;  $\epsilon_r = 45.919$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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) = 0.248 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 (36x36x61)/Cube 0:**

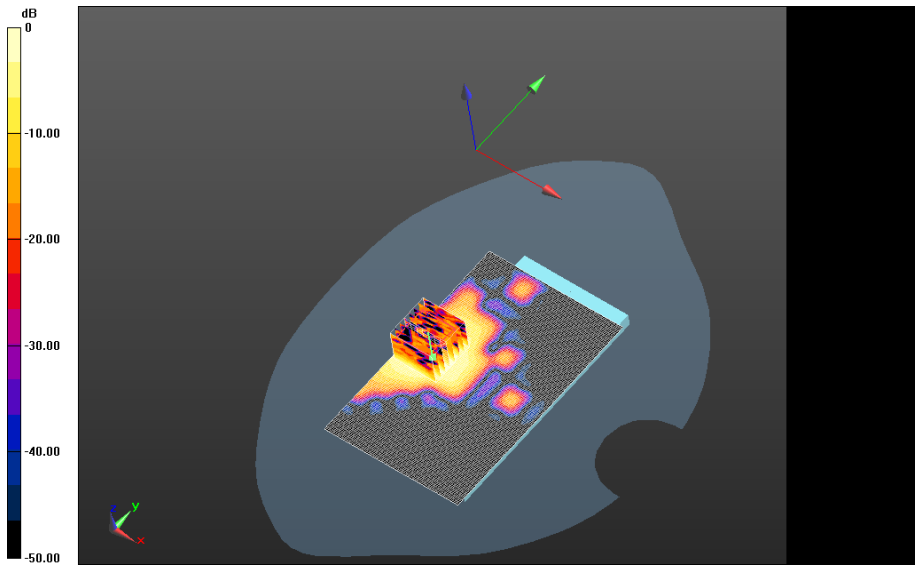
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.638 V/m; **Power Drift = -0.076 dB**

**Averaged SAR: SAR(1g) = 0.127 W/kg; SAR(10g) = 0.0440 W/kg**


Maximum value of SAR (interpolated) = 0.461 W/kg

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0 dB = 0.240 W/kg = -6.20 dBW/kg



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Date: 7/23/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461/2FFFE4E2**

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

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1  
Medium Parameters used:  $f=5745$  MHz;  $\sigma = 6.256$  S/m;  $\epsilon_r = 48.409$ ;  $\rho = 1.000$  g/cm<sup>3</sup>  
Phantom section: Flat Section


**DASY Configuration:**

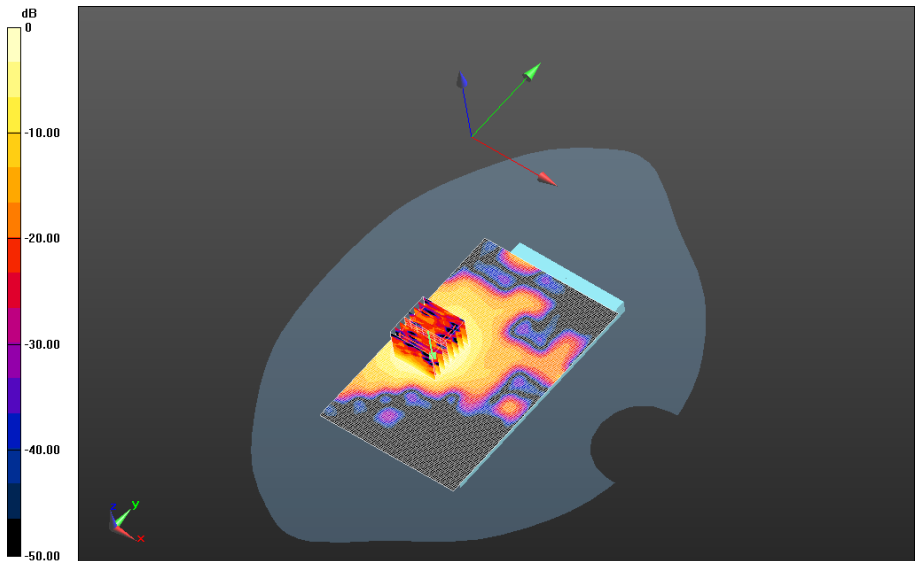
- Probe: EX3DV4 - SN3548; ConvF: (4.19,4.19,4.19); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a\_chan153\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_22.0C/Area Scan (91x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.551 W/kg

**Body Worn MSL - 802.11a 5800 MHz/15mm Device Back - 802.11a\_chan153\_upper\_bandII\_Amb\_Temp\_23.0C\_Liquid\_Temp\_22.0C/Zoom Scan (36x36x61)/Cube 0:** Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm  
Reference Value = 9.812 V/m; Power Drift = 0.034 dB

**Averaged SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.101 W/kg**  
Maximum value of SAR (interpolated) = 1.02 W/kg

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0 dB = 0.486 W/kg = -3.13 dBW/kg