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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

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Model: RFS121LW

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GPRS 850

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Date: 3/14/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Mobile Hot Spot MSL - GPRS 850

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

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.977$ S/m; $\epsilon_r = 54.597$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS

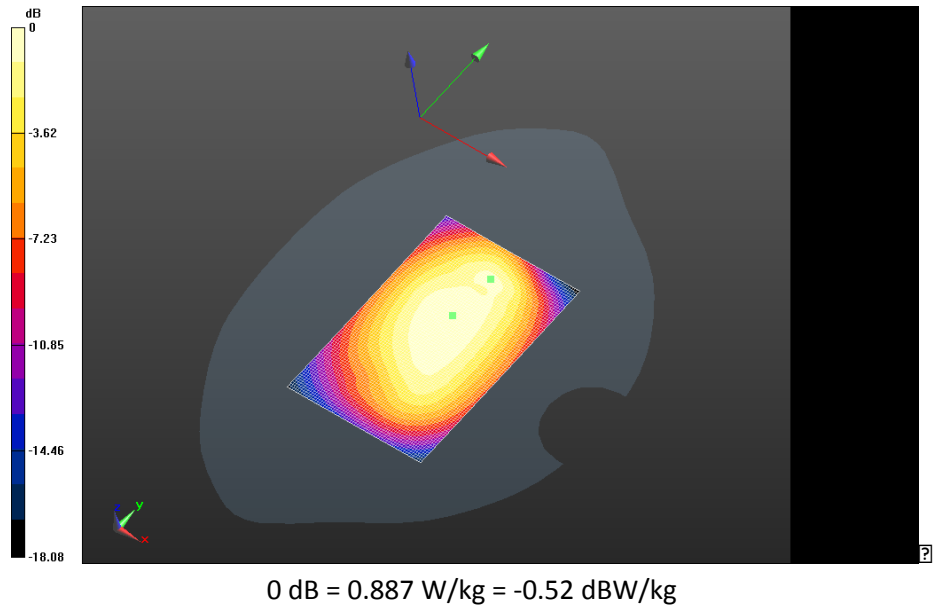
850_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 30.269 V/m; **Power Drift = 0.283 dB**

Fast SAR: SAR(1g) = 0.781 W/kg; SAR(10g) = 0.544 W/kg; Secondary SAR(1g) = 0.629 W/kg

Maximum value of SAR (interpolated) = 0.887 W/kg

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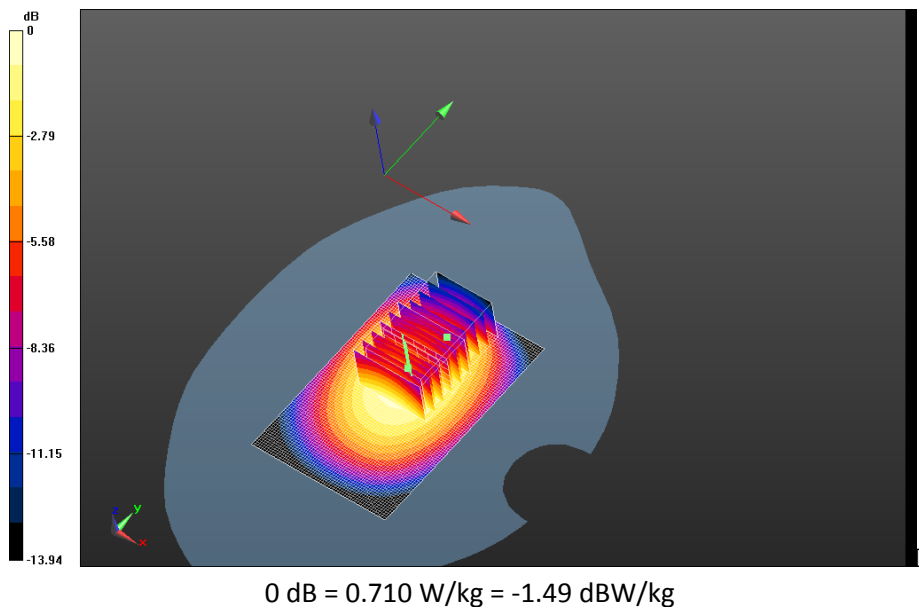
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 36.033 V/m; **Power Drift = -0.018 dB**

Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.838 W/kg
Maximum value of SAR (interpolated) = 1.49 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x41x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 36.033 V/m; **Power Drift = -0.040 dB**

Averaged SAR: SAR(1g) = 1.14 W/kg; SAR(10g) = 0.833 W/kg
Maximum value of SAR (interpolated) = 1.51 W/kg

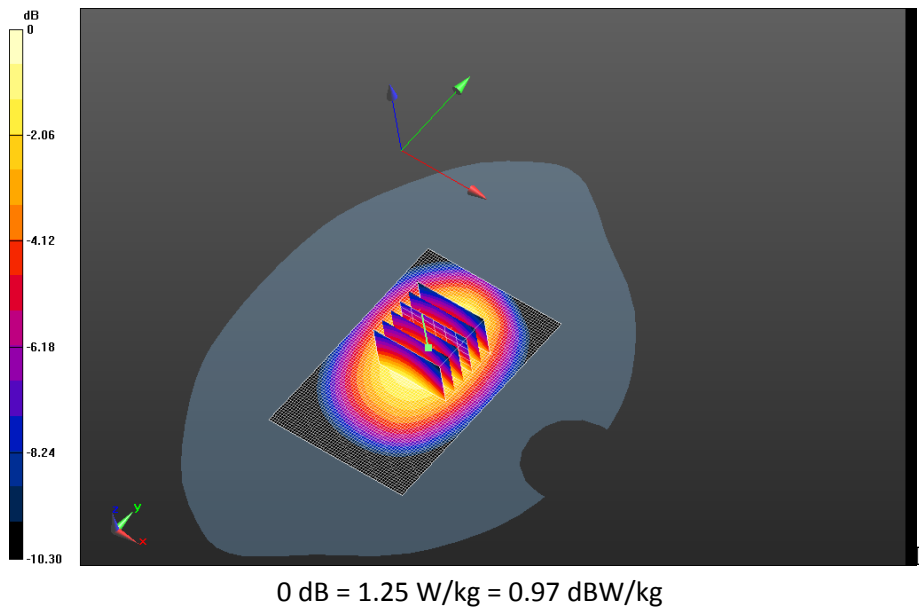


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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.6C_liq_temp_21.7C_2nd scan/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.6C_liq_temp_21.7C_2nd scan/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 36.009 V/m; **Power Drift = -0.0061 dB**

Averaged SAR: SAR(1g) = 1.15 W/kg; SAR(10g) = 0.845 W/kg
Maximum value of SAR (interpolated) = 1.52 W/kg



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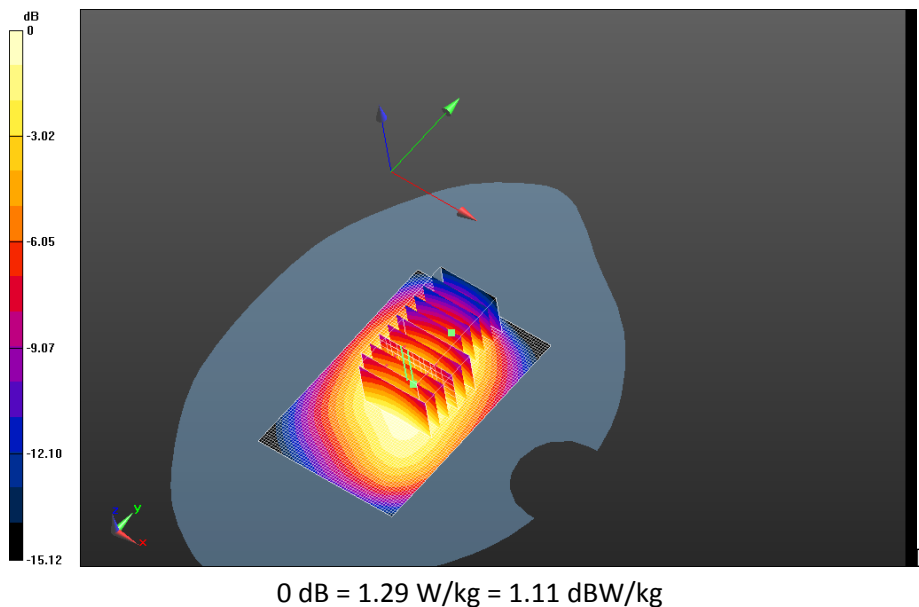
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 33.544 V/m; **Power Drift = 0.090 dB**

Averaged SAR: SAR(1g) = 0.957 W/kg; SAR(10g) = 0.706 W/kg
Maximum value of SAR (interpolated) = 1.24 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 33.544 V/m; **Power Drift = 0.00689 dB**

Averaged SAR: SAR(1g) = 0.949 W/kg; SAR(10g) = 0.700 W/kg
Maximum value of SAR (interpolated) = 1.25 W/kg



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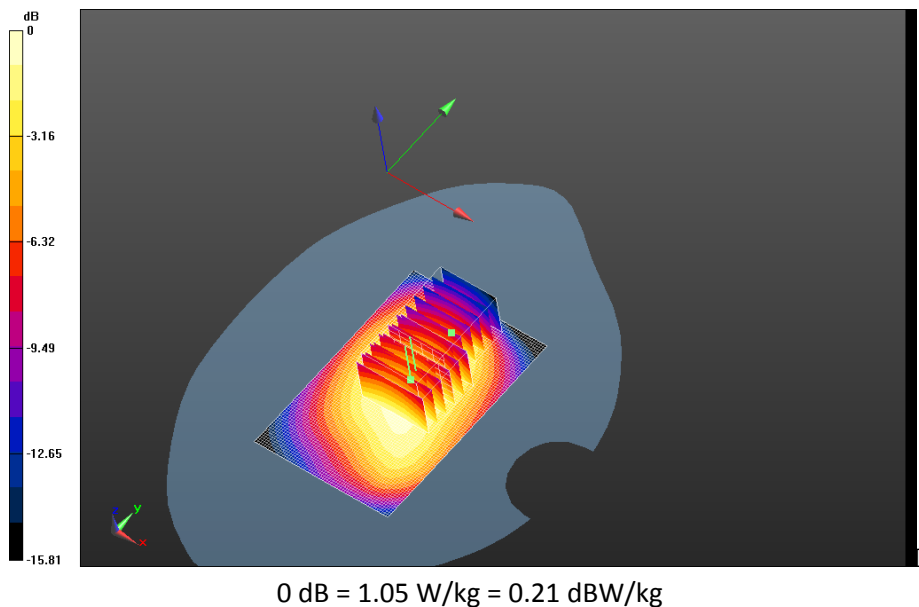
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 31.315 V/m; **Power Drift = -0.071 dB**

Averaged SAR: SAR(1g) = 0.845 W/kg; SAR(10g) = 0.619 W/kg
Maximum value of SAR (interpolated) = 1.11 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 31.315 V/m; **Power Drift = -0.043 dB**

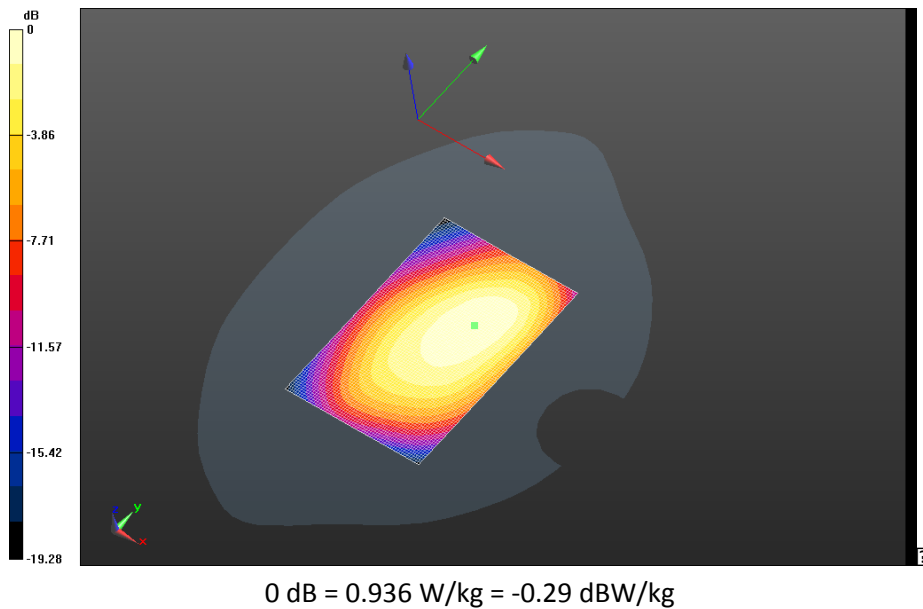
Averaged SAR: SAR(1g) = 0.846 W/kg; SAR(10g) = 0.616 W/kg
Maximum value of SAR (interpolated) = 1.11 W/kg



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**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 30.310 V/m; **Power Drift = -0.00342 dB**

Fast SAR: SAR(1g) = 0.870 W/kg; SAR(10g) = 0.601 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.990 W/kg

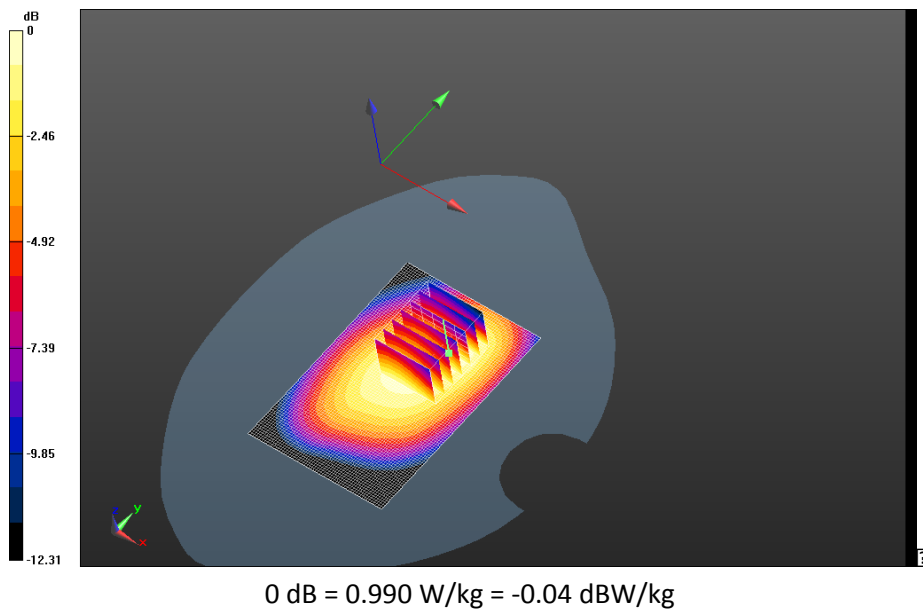


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Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.4C/Zoom Scan (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 30.635 V/m; **Power Drift = 0.083 dB**

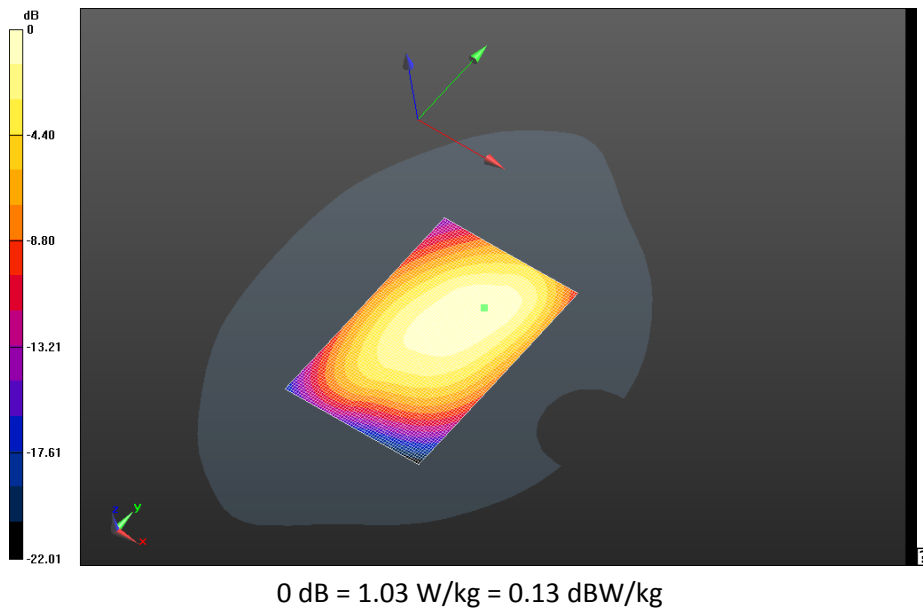
Averaged SAR: SAR(1g) = 0.921 W/kg; SAR(10g) = 0.675 W/kg
Maximum value of SAR (interpolated) = 1.27 W/kg



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Mobile Hot Spot MSL - GPRS 850/10mm Device Front -GPRS 850_3-
slot_chan251_amb_temp_23.3C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 29.251 V/m; **Power Drift = 0.014 dB**

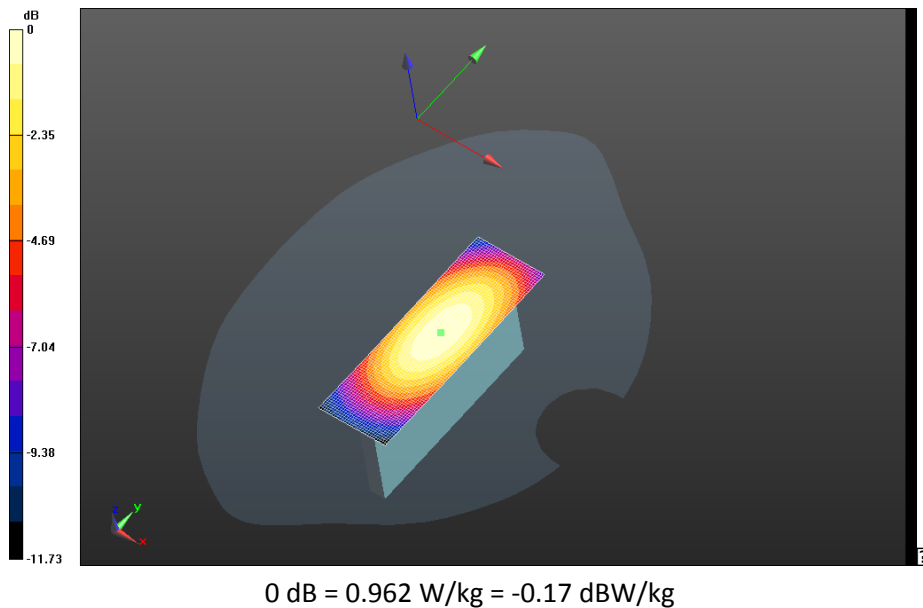
Fast SAR: SAR(1g) = 0.839 W/kg; SAR(10g) = 0.575 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.962 W/kg



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Mobile Hot Spot MSL - GPRS 850/10mm Device Left - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (31x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 26.406 V/m; **Power Drift = -0.020 dB**

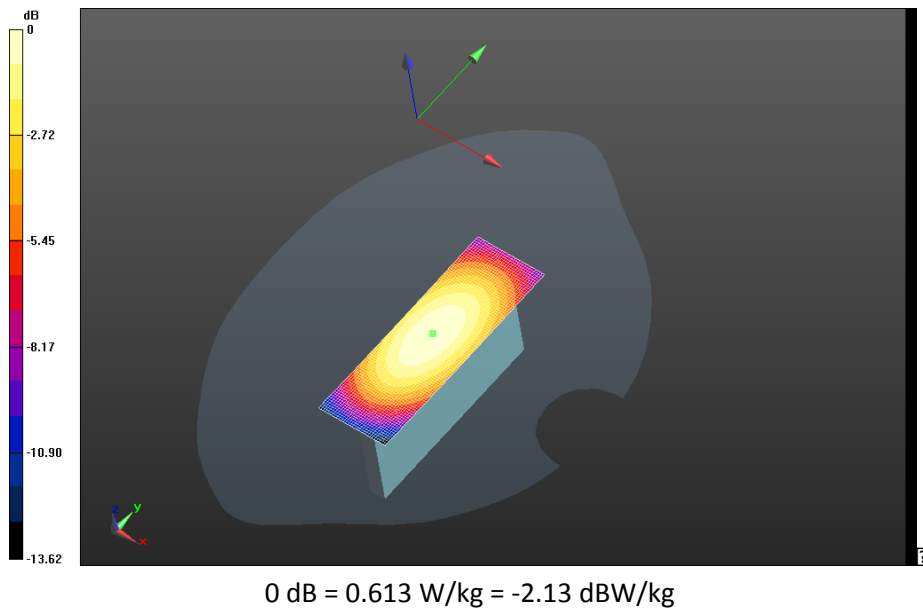
Fast SAR: SAR(1g) = 0.540 W/kg; SAR(10g) = 0.366 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.613 W/kg



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**Mobile Hot Spot MSL - GPRS 850/10mm Device Right - GPRS 850_3-
slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (31x91x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 27.173 V/m; **Power Drift = -0.00814 dB**

Fast SAR: SAR(1g) = 0.576 W/kg; SAR(10g) = 0.393 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.655 W/kg

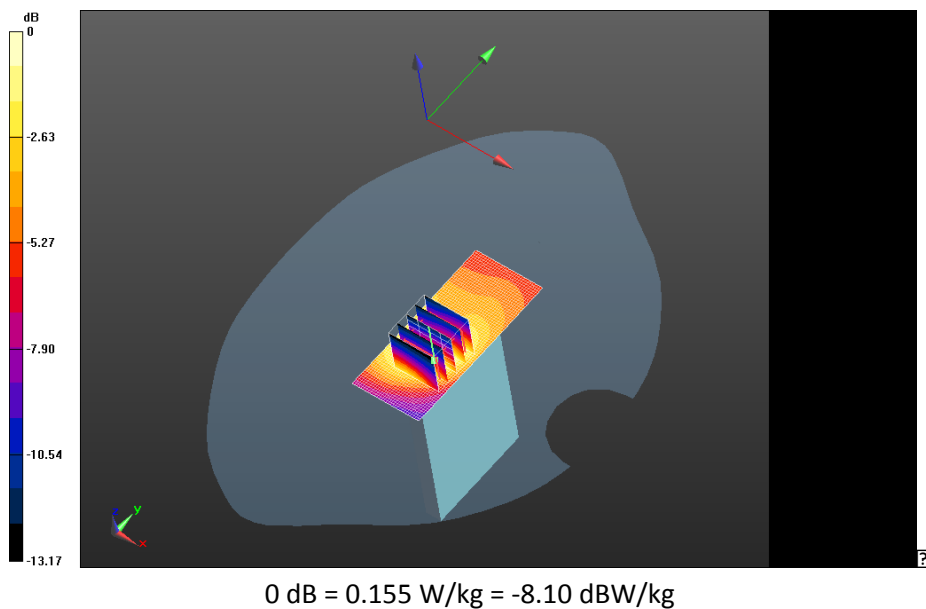


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**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850_3-
slot_chan128_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x71x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.153 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom - GPRS 850_3-
slot_chan128_amb_temp_23.4C_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 = 10.742 V/m; **Power Drift = -0.034 dB**

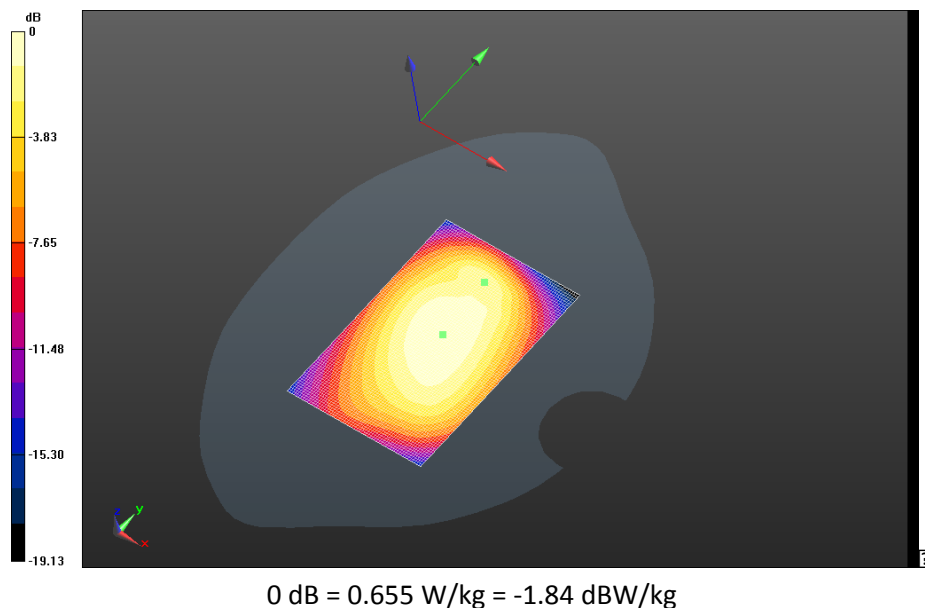
Averaged SAR: SAR(1g) = 0.123 W/kg; SAR(10g) = 0.0707 W/kg
Maximum value of SAR (interpolated) = 0.229 W/kg



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Mobile Hot Spot MSL - GPRS 850/10mm Device Back+HS - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 32.156 V/m; **Power Drift = 0.035 dB**

Fast SAR: SAR(1g) = 0.838 W/kg; SAR(10g) = 0.586 W/kg; Secondary SAR(1g) = 0.641 W/kg
Maximum value of SAR (interpolated) = 0.951 W/kg

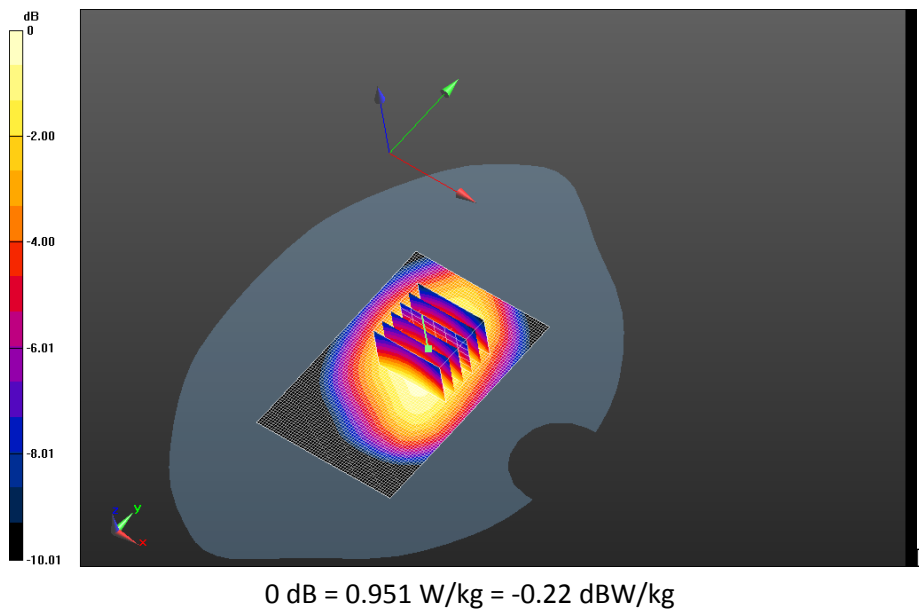


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Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_4-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 27.638 V/m; **Power Drift = -0.082 dB**

Averaged SAR: SAR(1g) = 0.698 W/kg; SAR(10g) = 0.517 W/kg
Maximum value of SAR (interpolated) = 0.910 W/kg



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UMTS Band V

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Date: 3/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A49

Configuration: Mobile Hot Spot MSL - UMTS Band V

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

Frequency: 826.4 MHz

Medium Parameters used: $f=826.4$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 53.050$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -

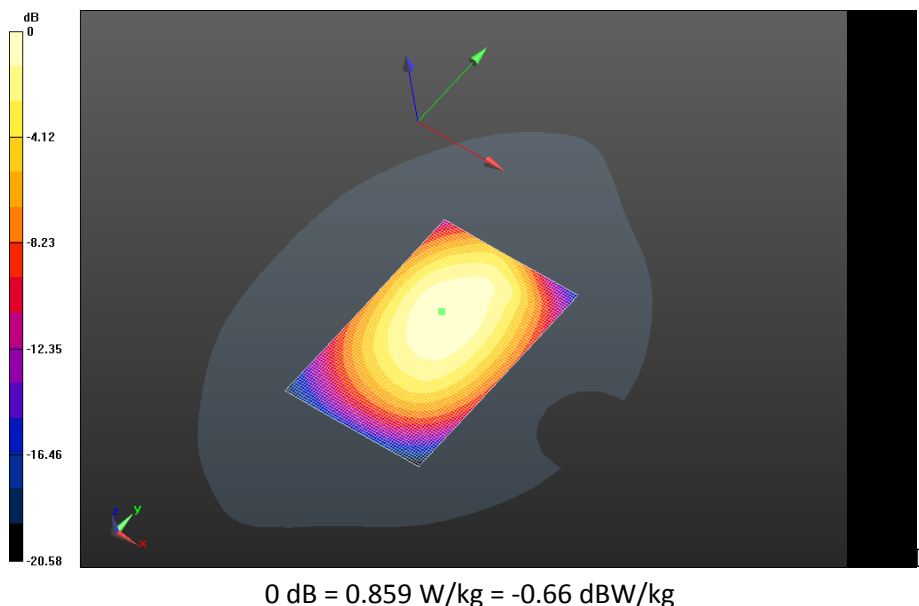
UMTS_Band_V_chan4132_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1):

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

Reference Value = 29.252 V/m; **Power Drift = -0.022 dB**

Fast SAR: SAR(1g) = 0.756 W/kg; SAR(10g) = 0.524 W/kg

Maximum value of SAR (interpolated) = 0.859 W/kg



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Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -

UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Area Scan (61x91x1):

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

Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -

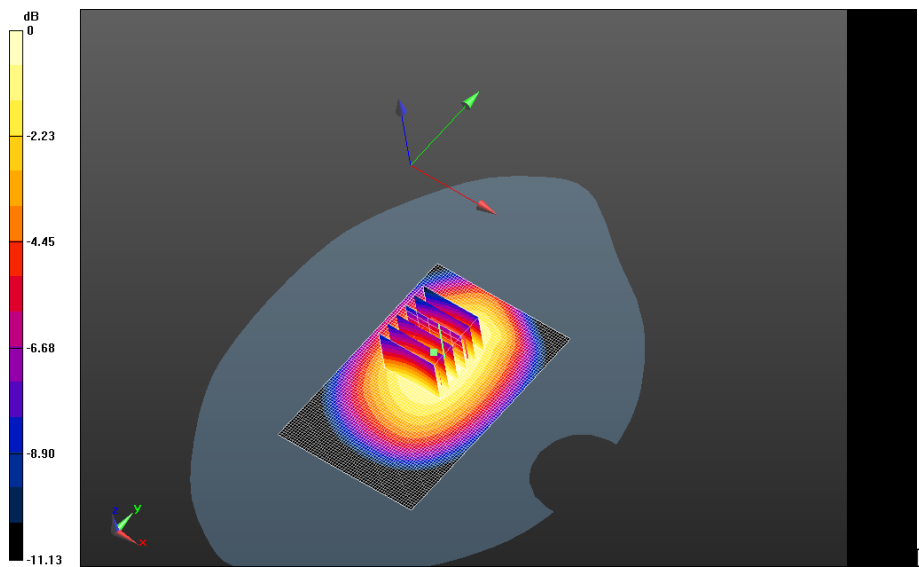
UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Zoom Scan (26x26x36)/Cube 0:

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

Reference Value = 29.386 V/m; **Power Drift = -0.022 dB**

Averaged SAR: SAR(1g) = 0.798 W/kg; SAR(10g) = 0.588 W/kg

Maximum value of SAR (interpolated) = 1.04 W/kg



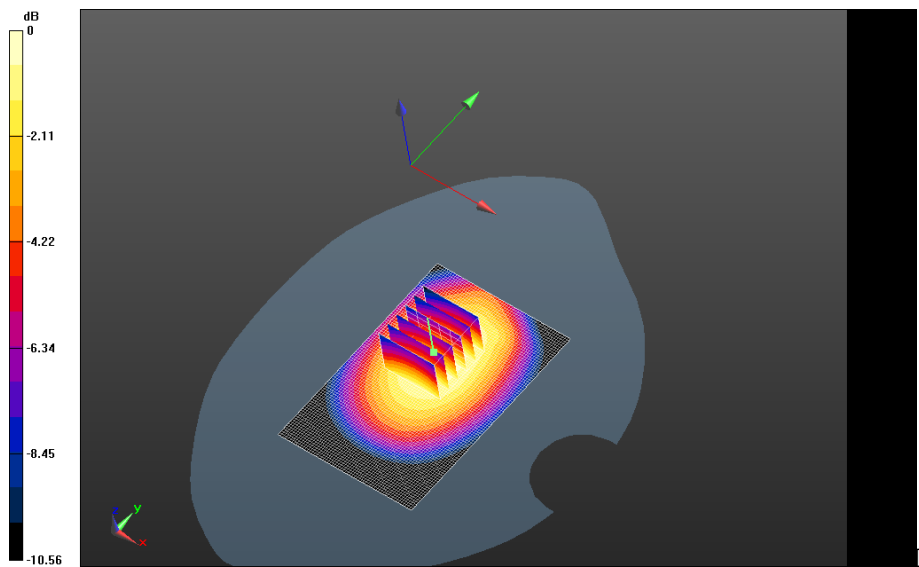
0 dB = 0.859 W/kg = -0.66 dBW/kg

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Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4182_2nd_Scan_amb_temp_23.6C_liq_temp_21.0C 2/Area Scan
(61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4182_2nd_Scan_amb_temp_23.6C_liq_temp_21.0C 2/Zoom Scan
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 29.729 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.831 W/kg; SAR(10g) = 0.615 W/kg
Maximum value of SAR (interpolated) = 1.08 W/kg

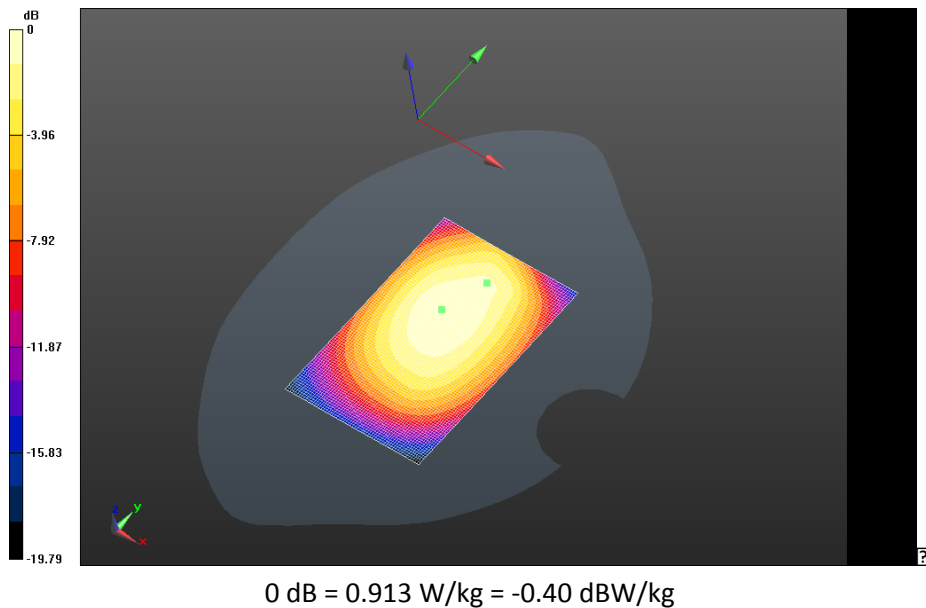


0 dB = 0.885 W/kg = -0.53 dBW/kg

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Mobile Hot Spot MSL - UMTS Band V/10mm Device Back -
UMTS_Band_V_chan4233_amb_temp_23.9C_liq_temp_21.0C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.024 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.731 W/kg; SAR(10g) = 0.505 W/kg
Maximum value of SAR (interpolated) = 0.834 W/kg



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Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -

UMTS_Band_V_chan4182_amb_temp_23.3C_liq_temp_21.0C/Area Scan (61x91x1):

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

Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Front -

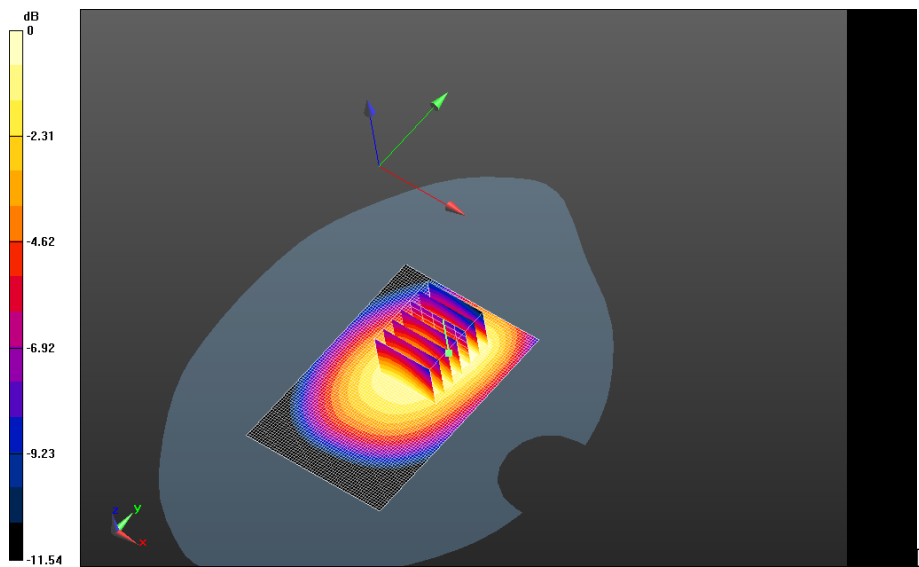
UMTS_Band_V_chan4182_amb_temp_23.3C_liq_temp_21.0C/Zoom Scan (26x31x36)/Cube 0:

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

Reference Value = 23.580 V/m; **Power Drift = 0.004 dB**

Averaged SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.409 W/kg

Maximum value of SAR (interpolated) = 0.754 W/kg



0 dB = 0.834 W/kg = -0.79 dBW/kg

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Author Data Andrew Becker	Dates of Test Mar 04 –May 13, 2013	Test Report No RTS-6036-1305-12	FCC ID: L6ARFT80UW	IC 2503A-RFT80UW

Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -

UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x91x1):

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

Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Left -

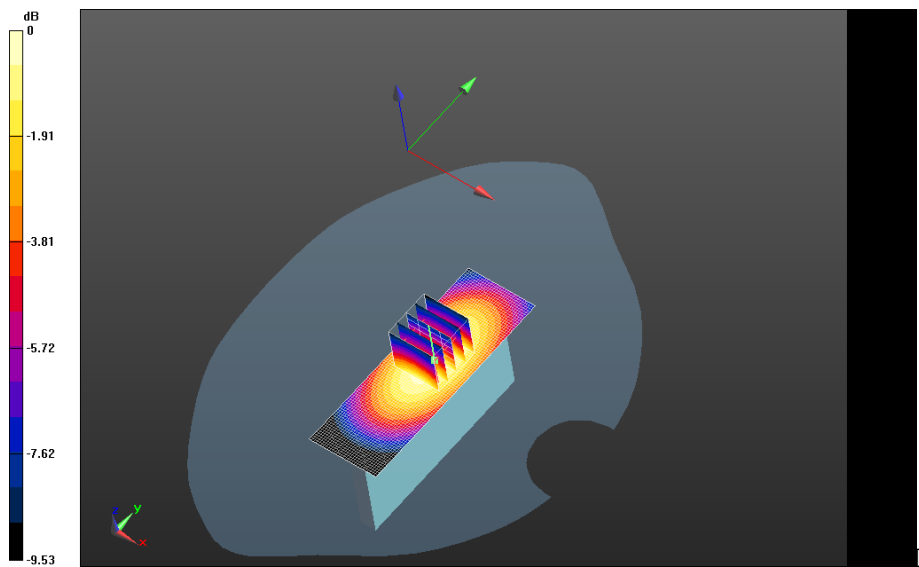
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 23.360 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.443 W/kg; SAR(10g) = 0.307 W/kg

Maximum value of SAR (interpolated) = 0.615 W/kg



0 dB = 0.625 W/kg = -2.04 dBW/kg

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Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -

UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x91x1):

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

Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Right -

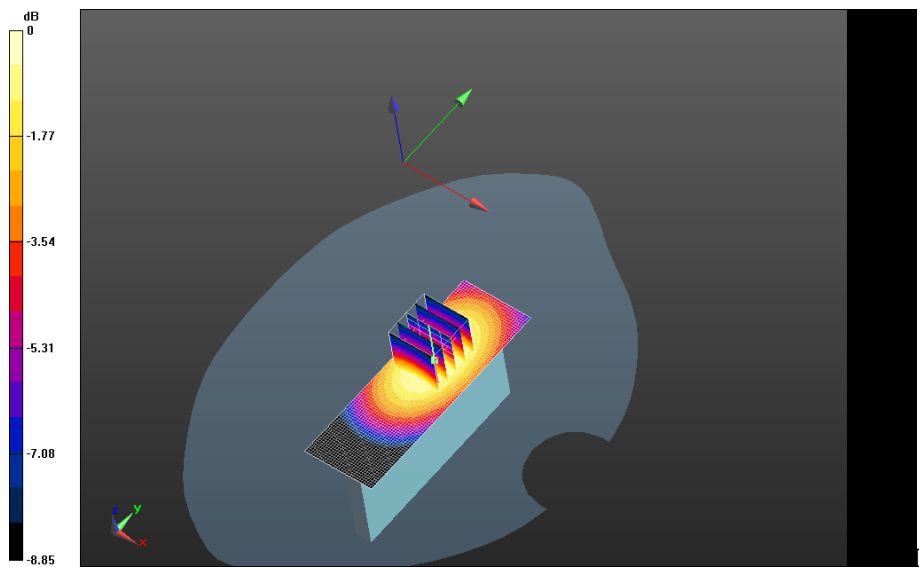
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 21.547 V/m; **Power Drift = 0.048 dB**

Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.298 W/kg

Maximum value of SAR (interpolated) = 0.572 W/kg



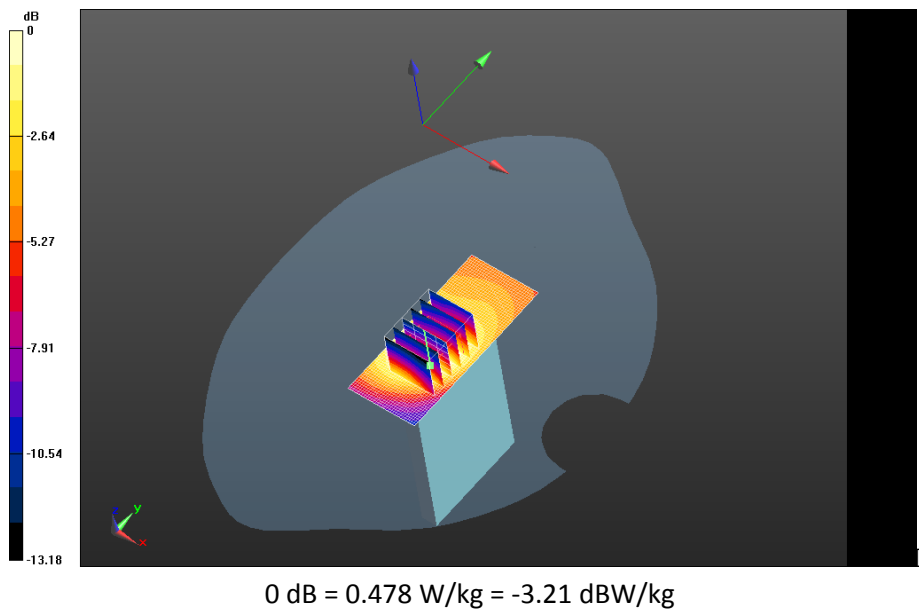
0 dB = 0.507 W/kg = -2.95 dBW/kg

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Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Area Scan (31x71x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

Mobile Hot Spot MSL - UMTS Band V/10mm Device Bottom -
UMTS_Band_V_chan4182_amb_temp_23.9C_liq_temp_21.0C/Zoom Scan (21x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.669 V/m; **Power Drift = -0.021 dB**

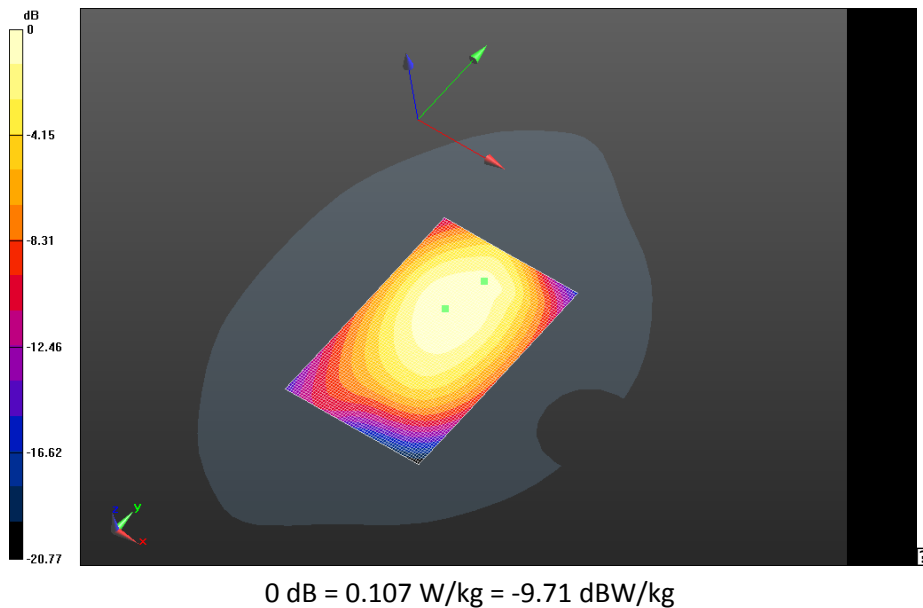
Averaged SAR: SAR(1g) = 0.0971 W/kg; SAR(10g) = 0.0561 W/kg
Maximum value of SAR (interpolated) = 0.170 W/kg



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Mobile Hot Spot MSL - UMTS Band V/10mm Device Back+HS -
UMTS_Band_V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Area Scan (61x91x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.163 V/m; **Power Drift = 0.075 dB**

Fast SAR: SAR(1g) = 0.609 W/kg; SAR(10g) = 0.420 W/kg
Maximum value of SAR (interpolated) = 0.690 W/kg



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GPRS 1900

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Date: 3/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Mobile Hot Spot MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.513$ S/m; $\epsilon_r = 50.890$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.681 V/m; **Power Drift = 0.082 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:

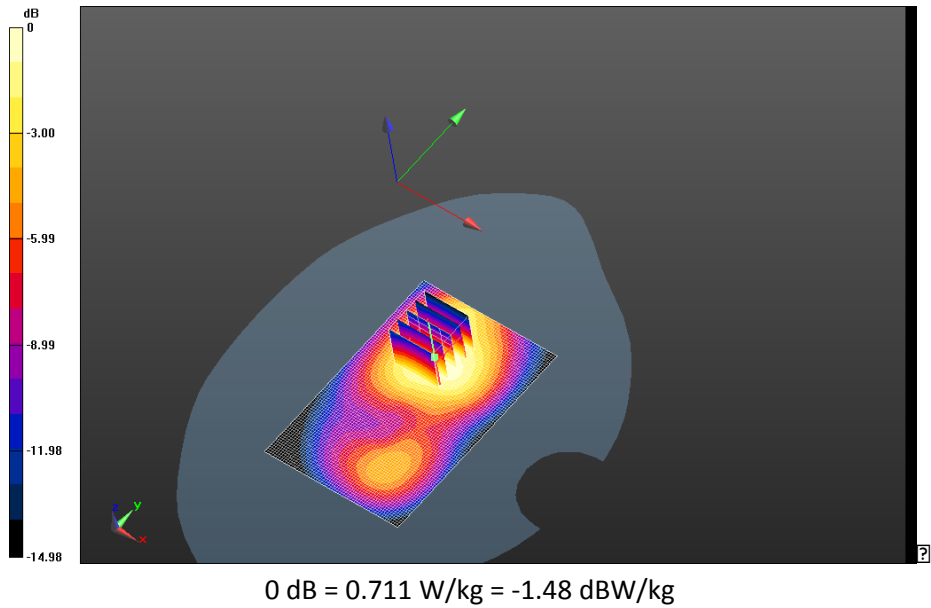
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.681 V/m; **Power Drift = 0.082 dB**

Averaged SAR: SAR(1g) = 0.606 W/kg; SAR(10g) = 0.379 W/kg

Maximum value of SAR (interpolated) = 0.935 W/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS

1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

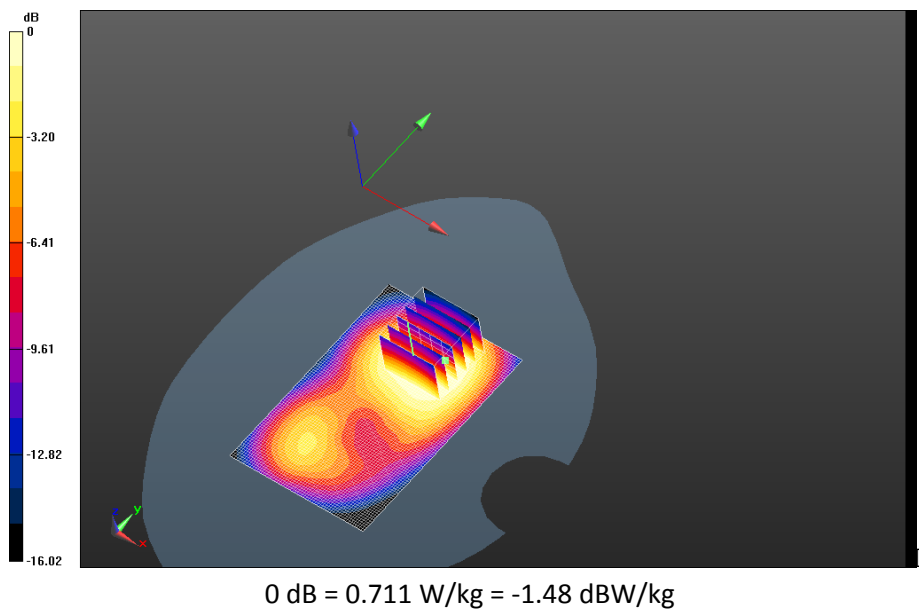
Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS

1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.258 V/m; **Power Drift = -0.119 dB**

Averaged SAR: SAR(1g) = 0.699 W/kg; SAR(10g) = 0.453 W/kg

Maximum value of SAR (interpolated) = 1.13 W/kg



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Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS

1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 8.545 V/m; **Power Drift = -0.106 dB**

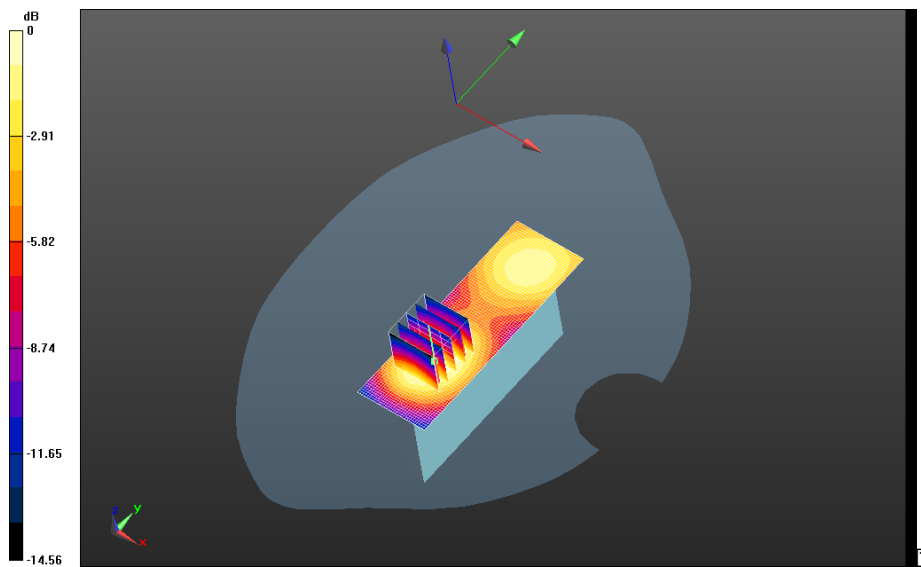
Mobile Hot Spot MSL - GPRS 1900/10mm Device Right - GPRS

1900_mid_chan_amb_temp_23.4C_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 = 13.148 V/m; **Power Drift = -0.106 dB**

Averaged SAR: SAR(1g) = 0.239 W/kg; SAR(10g) = 0.143 W/kg

Maximum value of SAR (interpolated) = 0.384 W/kg



0 dB = 0.741 W/kg = -1.30 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS

1900_mid_chan_amb_temp_23.4C_liq_temp_21.5C/Area Scan (31x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 12.190 V/m; **Power Drift = -0.084 dB**

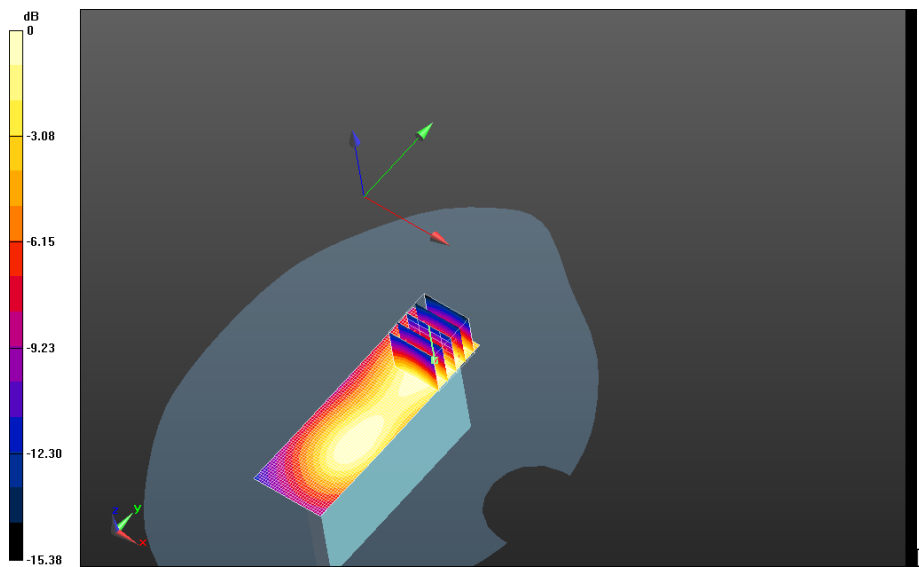
Mobile Hot Spot MSL - GPRS 1900/10mm Device Left - GPRS

1900_mid_chan_amb_temp_23.4C_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 = 12.190 V/m; **Power Drift = -0.084 dB**

Averaged SAR: SAR(1g) = 0.237 W/kg; SAR(10g) = 0.141 W/kg

Maximum value of SAR (interpolated) = 0.390 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS

1900_mid_chan_amb_temp_23.2C_liq_temp_21.4C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 12.473 V/m; **Power Drift = 0.00112 dB**

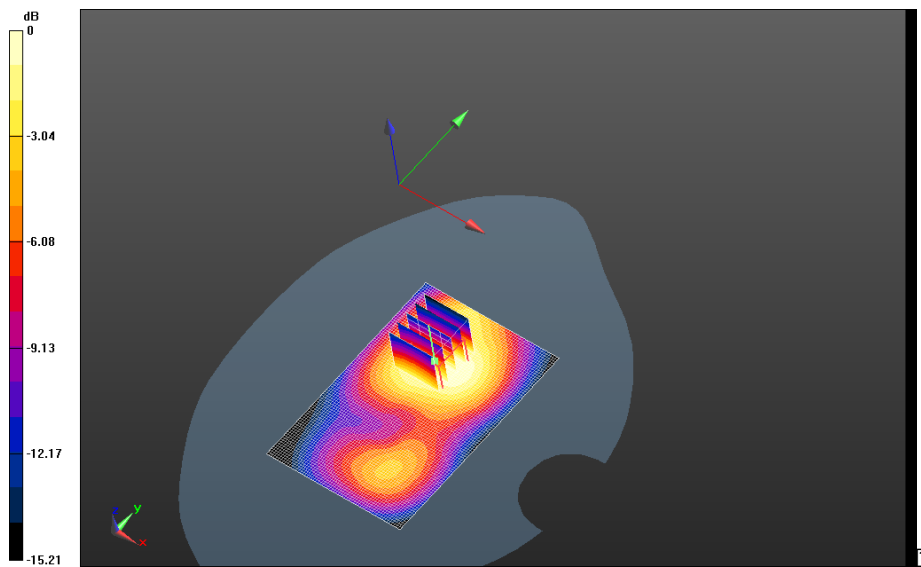
Mobile Hot Spot MSL - GPRS 1900/10mm Device Back+HS - GPRS

1900_mid_chan_amb_temp_23.2C_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 = 12.473 V/m; **Power Drift = 0.00112 dB**

Averaged SAR: SAR(1g) = 0.598 W/kg; SAR(10g) = 0.373 W/kg

Maximum value of SAR (interpolated) = 0.927 W/kg



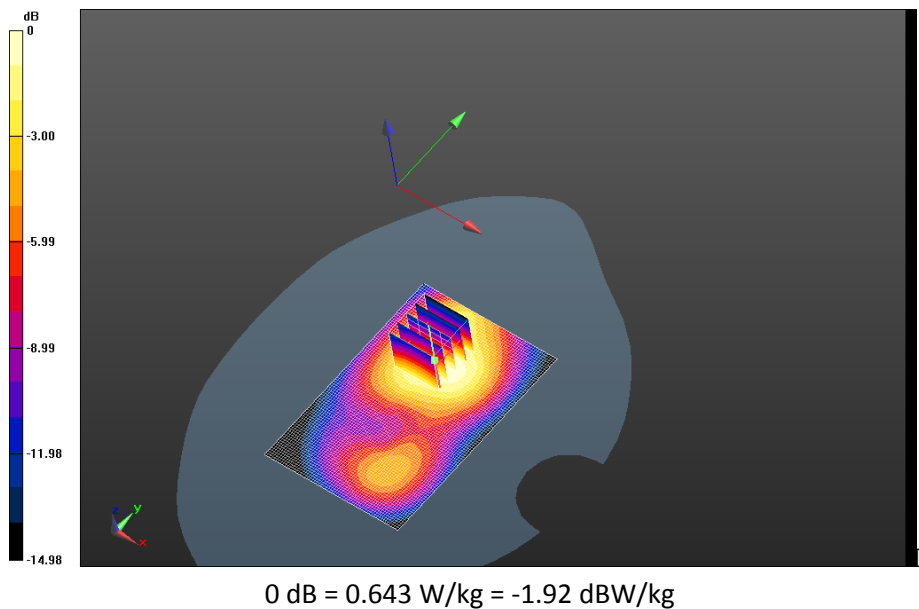
0 dB = 0.258 W/kg = -5.88 dBW/kg

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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_3-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 12.265 V/m; **Power Drift = 0.012 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_3-slot_mid_chan_amb_temp_23.3C_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 = 12.265 V/m; **Power Drift = 0.012 dB**

Averaged SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.351 W/kg
Maximum value of SAR (interpolated) = 0.870 W/kg

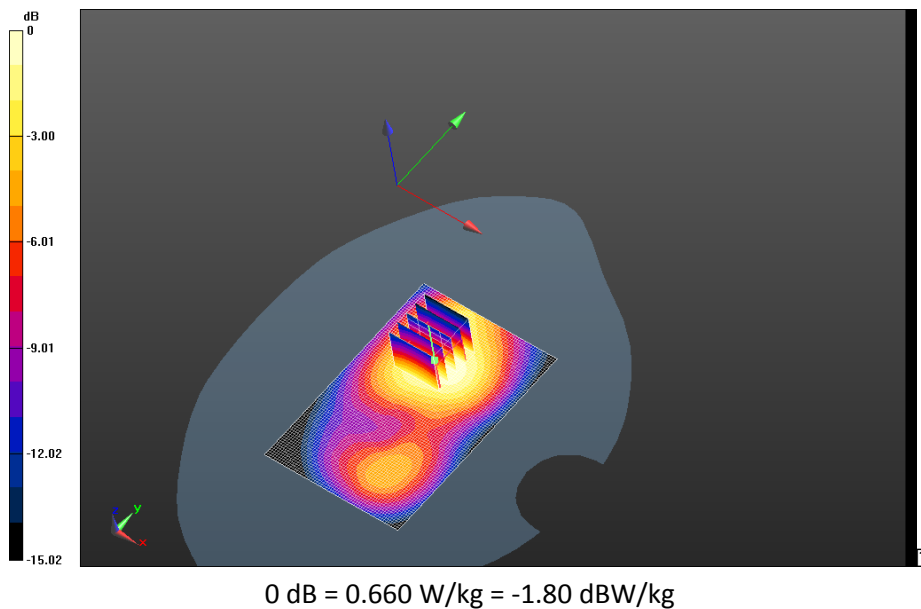


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Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_4-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 11.856 V/m; **Power Drift = 0.030 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS 1900_4-slot_mid_chan_amb_temp_23.3C_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 = 11.856 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.524 W/kg; SAR(10g) = 0.328 W/kg
Maximum value of SAR (interpolated) = 0.791 W/kg



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Author Data Andrew Becker	Dates of Test Mar 04 –May 13, 2013	Test Report No RTS-6036-1305-12	FCC ID: L6ARFT80UW	IC 2503A-RFT80UW

Date/Time: 5/13/2013 5:42:25 AM

Test Laboratory: RIM Testing Services

MHS_Bottom_EDGE1900-Rev2-01

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.517 \text{ S/m}$; $\epsilon_r = 51.026$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

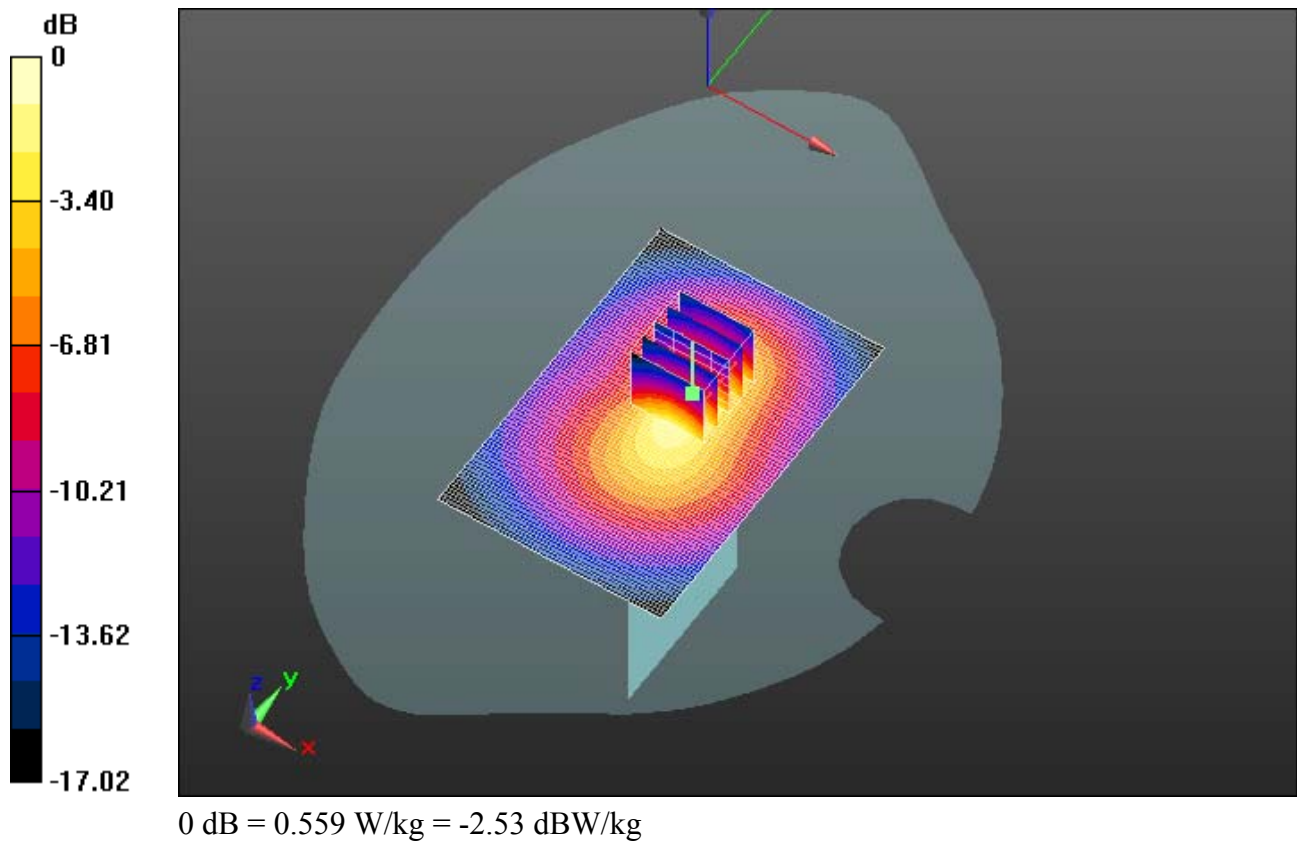
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900_2-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.528 W/kg

Mobile Hot Spot MSL - GPRS 1900 Bottom/10mm Device Bottom - GPRS 1900_2-slot_mid_chan_amb_temp_23.3C_liq_temp_21.5C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.201 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.758 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.240 W/kg
Maximum value of SAR (measured) = 0.559 W/kg

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UMTS Band II

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Date: 4/9/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.515$ S/m; $\epsilon_r = 50.915$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.621 V/m; **Power Drift = -0.081 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Back -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:

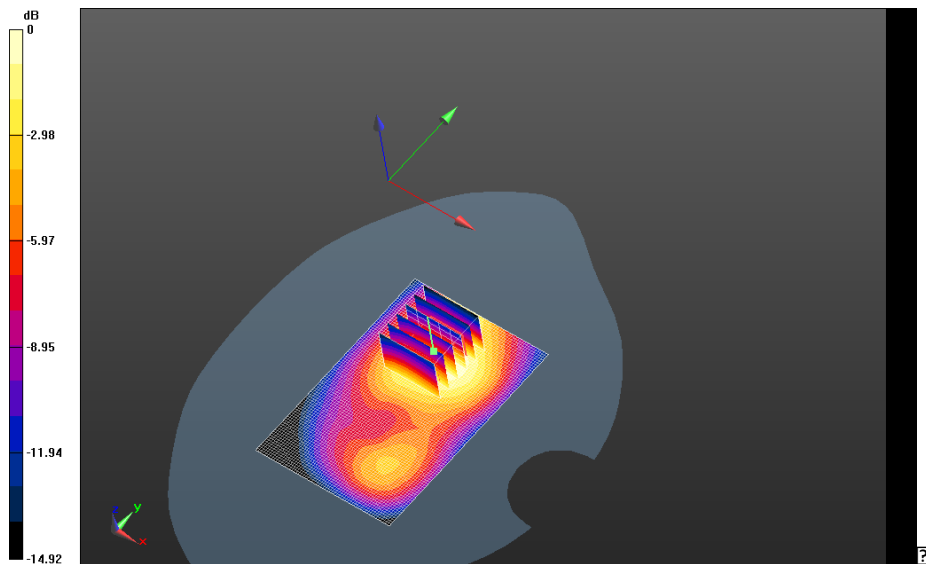
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.846 V/m; **Power Drift = -0.081 dB**

Averaged SAR: SAR(1g) = 0.648 W/kg; SAR(10g) = 0.412 W/kg

Maximum value of SAR (interpolated) = 0.977 W/kg

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0 dB = 0.747 W/kg = -1.27 dBW/kg

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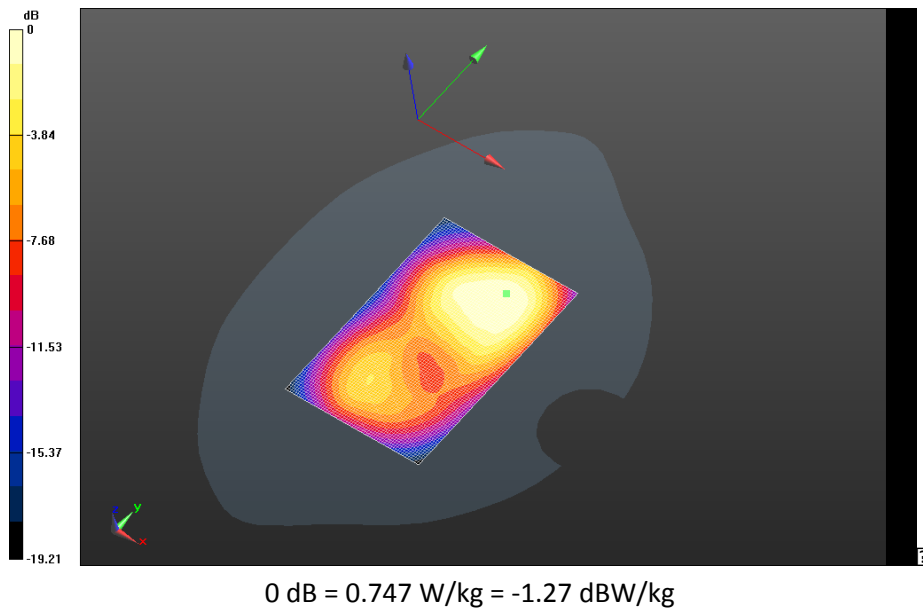
Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9262_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.386 V/m; **Power Drift = 0.00824 dB**

Fast SAR: SAR(1g) = 0.932 W/kg; SAR(10g) = 0.584 W/kg; Secondary SAR(1g) = 0.388 W/kg

Maximum value of SAR (interpolated) = 1.12 W/kg



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Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.650 V/m; **Power Drift = -0.020 dB**

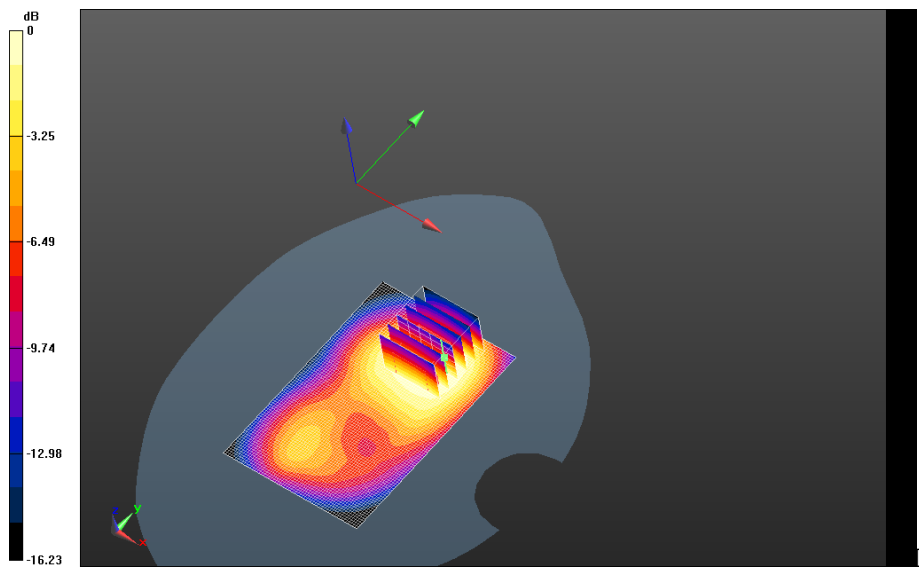
Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 27.010 V/m; **Power Drift = -0.020 dB**

Averaged SAR: SAR(1g) = 0.876 W/kg; SAR(10g) = 0.571 W/kg

Maximum value of SAR (interpolated) = 1.43 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.584 V/m; **Power Drift = 0.079 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

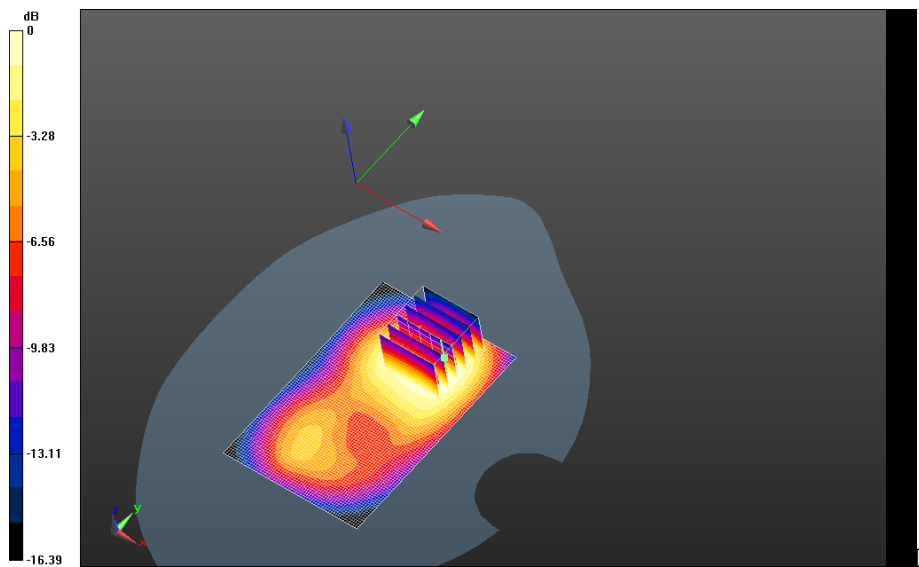
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:

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

Reference Value = 27.292 V/m; **Power Drift = 0.079 dB**

Averaged SAR: SAR(1g) = 0.933 W/kg; SAR(10g) = 0.600 W/kg

Maximum value of SAR (interpolated) = 1.56 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd_Scan/Area Scan (61x91x1):

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

Reference Value = 15.631 V/m; **Power Drift = -0.018 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

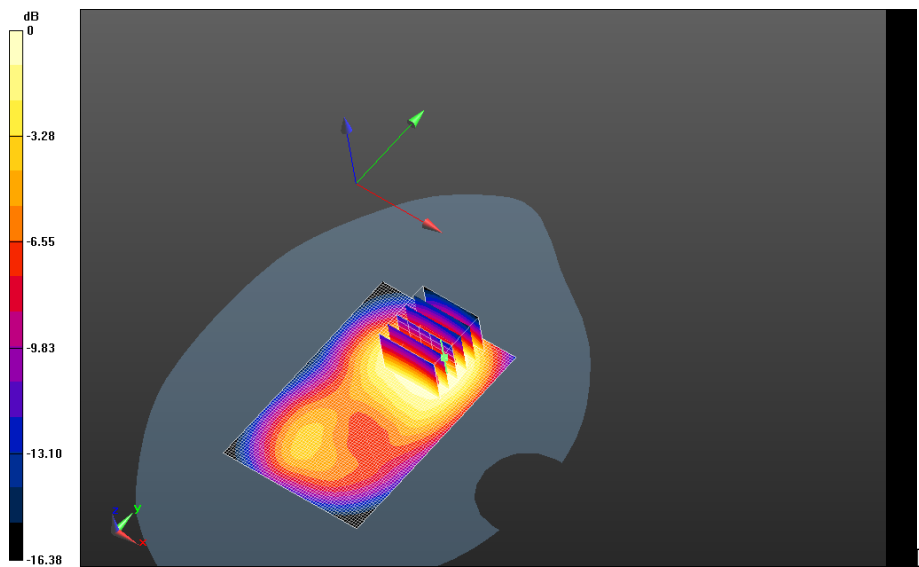
UMTS_II_chan9538_amb_temp_23.3C_liq_temp_21.2C_2nd_Scan/Zoom Scan

(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 27.535 V/m; **Power Drift = -0.018 dB**

Averaged SAR: SAR(1g) = 0.924 W/kg; SAR(10g) = 0.595 W/kg

Maximum value of SAR (interpolated) = 1.54 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Left -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.838 V/m; **Power Drift = -0.033 dB**

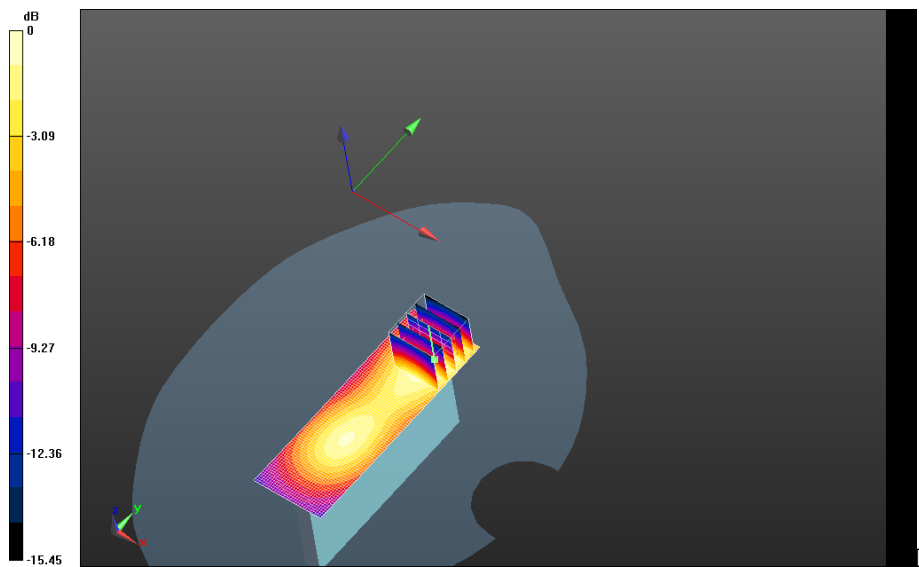
Mobile Hot Spot MSL - UMTS Band II/10mm Device Left -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 16.278 V/m; **Power Drift = -0.033 dB**

Averaged SAR: SAR(1g) = 0.314 W/kg; SAR(10g) = 0.183 W/kg

Maximum value of SAR (interpolated) = 0.525 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Right -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.237 V/m; **Power Drift = -0.097 dB**

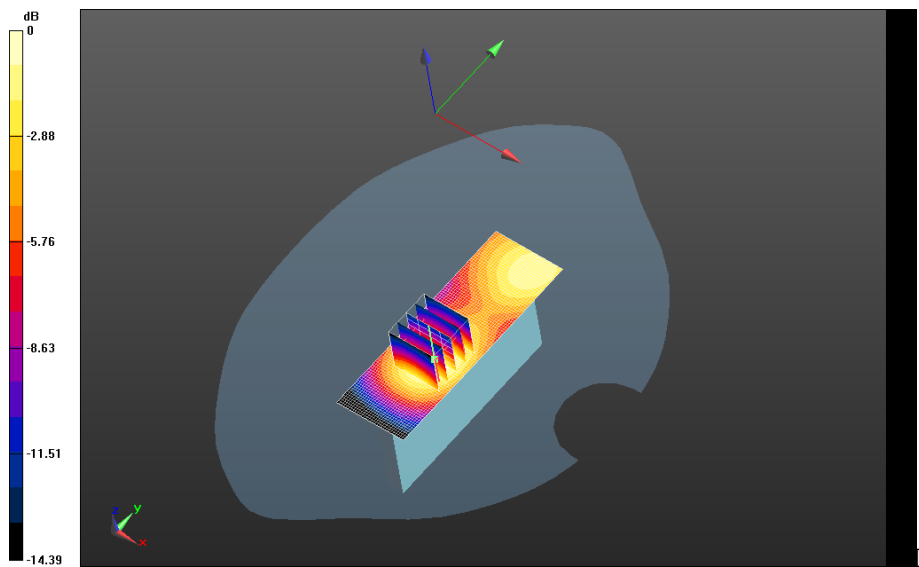
Mobile Hot Spot MSL - UMTS Band II/10mm Device Right -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.534 V/m; **Power Drift = -0.097 dB**

Averaged SAR: SAR(1g) = 0.236 W/kg; SAR(10g) = 0.141 W/kg

Maximum value of SAR (interpolated) = 0.375 W/kg



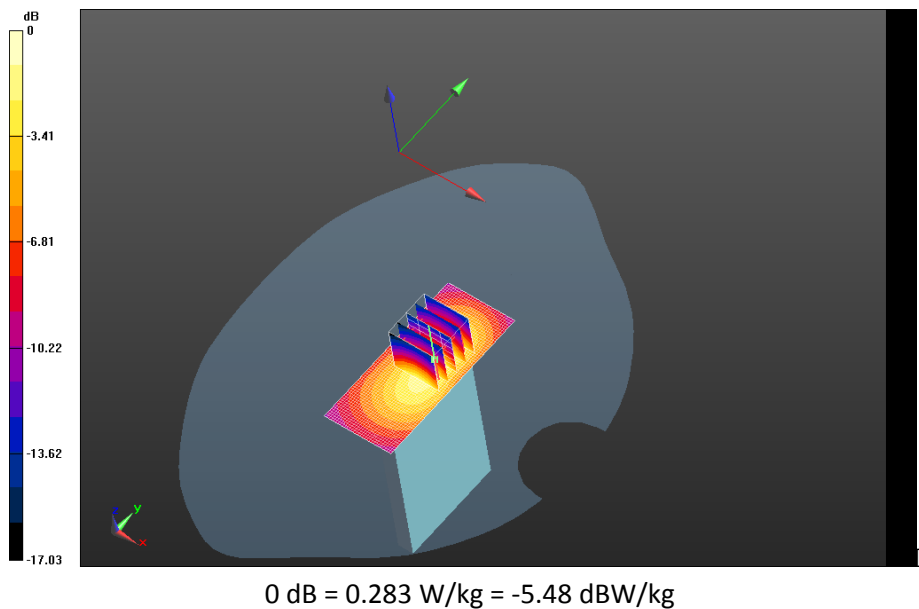
0 dB = 0.382 W/kg = -4.18 dBW/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom -
UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (31x71x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.171 V/m; **Power Drift = 0.061 dB**

Mobile Hot Spot MSL - UMTS Band II/10mm Device Bottom -
UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 18.881 V/m; **Power Drift = 0.061 dB**

Averaged SAR: SAR(1g) = 0.491 W/kg; SAR(10g) = 0.265 W/kg
Maximum value of SAR (interpolated) = 0.867 W/kg

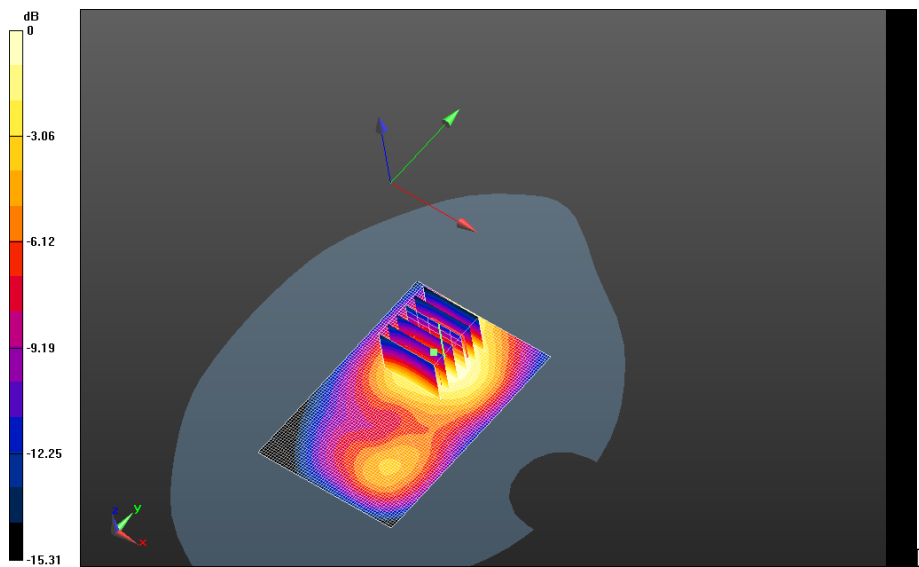


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Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back -
UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.410 V/m; **Power Drift = 0.078 dB**

Mobile Hot Spot MSL - UMTS Band II/Headset 10mm Device Back -
UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 22.671 V/m; **Power Drift = 0.078 dB**

Averaged SAR: SAR(1g) = 0.640 W/kg; SAR(10g) = 0.407 W/kg
Maximum value of SAR (interpolated) = 0.973 W/kg



0 dB = 0.621 W/kg = -2.07 dBW/kg

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802.11b

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Date: 3/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB04D29

Configuration: Flat-Section MSL_MHS_Body_SAR – 802.11b

Communication System: 802.11 b (2450); Communication System Band: 802.11 b;

Frequency: 2437 MHz

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.957$ S/m; $\epsilon_r = 50.407$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_802.11b_Mid_Chan_Amb_Temp_23.5C_Liquid_Temp_21.6C/Area

Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.337 W/kg

Flat-Section MSL_MHS_Body_SAR/Device Back_10mm_802.11b_Mid_Chan_Amb_Temp_23.5C_Liquid_Temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

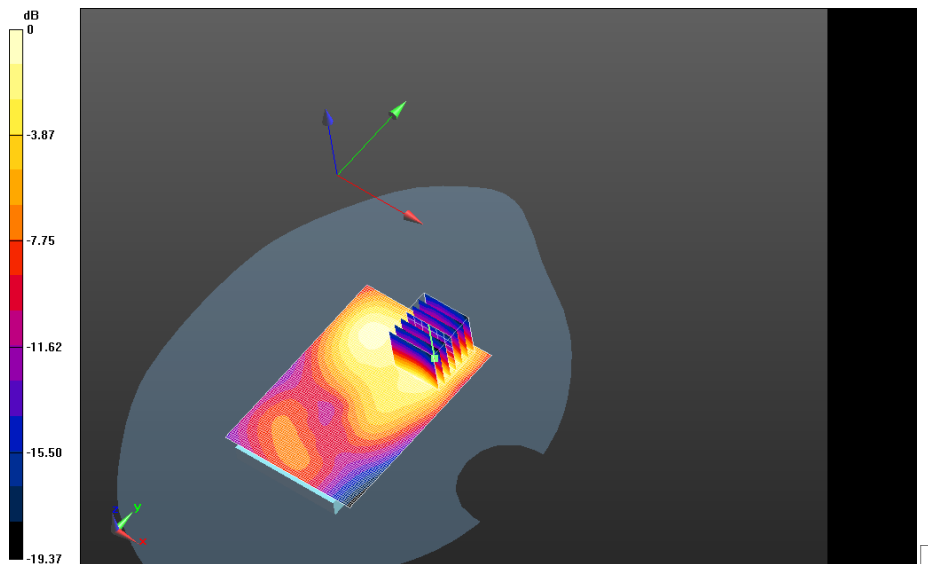
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 12.211 V/m; **Power Drift = 0.071 dB**

Averaged SAR: SAR(1g) = 0.267 W/kg; SAR(10g) = 0.144 W/kg

Maximum value of SAR (interpolated) = 0.521 W/kg

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0 dB = 0.328 W/kg = -4.84 dBW/kg

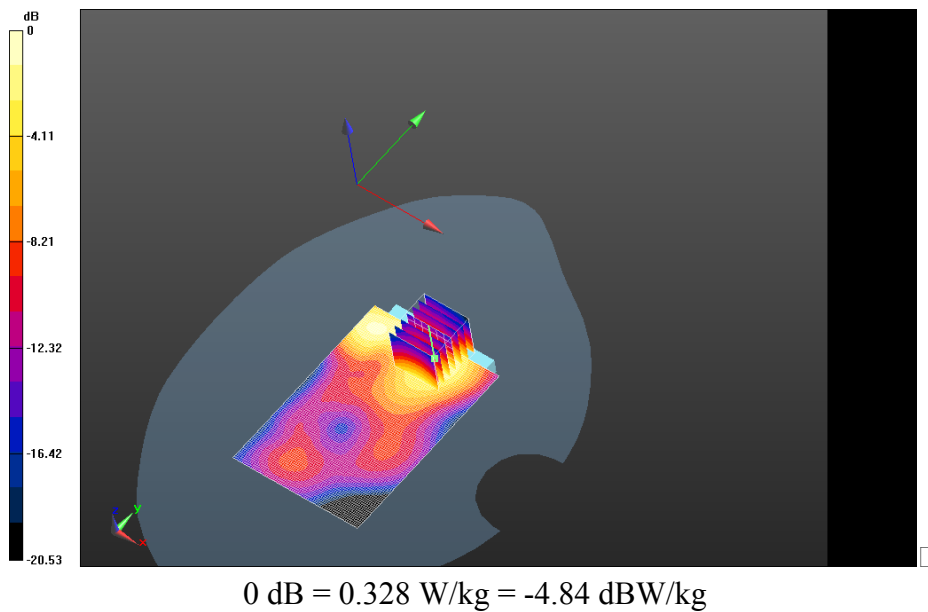
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**Flat-Section MSL_MHS_Body_SAR/Device Front_10mm_802.11b_Mid_Chan
_Amb_Temp_23.7C_Liquid_Temp_22.1C/Area Scan (71x101x1):** Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.218 W/kg

**Flat-Section MSL_MHS_Body_SAR/Device Front_10mm_802.11b_Mid_Chan
_Amb_Temp_23.7C_Liquid_Temp_22.1C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.181 V/m; **Power Drift = 0.103 dB**

Averaged SAR: SAR(1g) = 0.202 W/kg; SAR(10g) = 0.112 W/kg
Maximum value of SAR (interpolated) = 0.370 W/kg



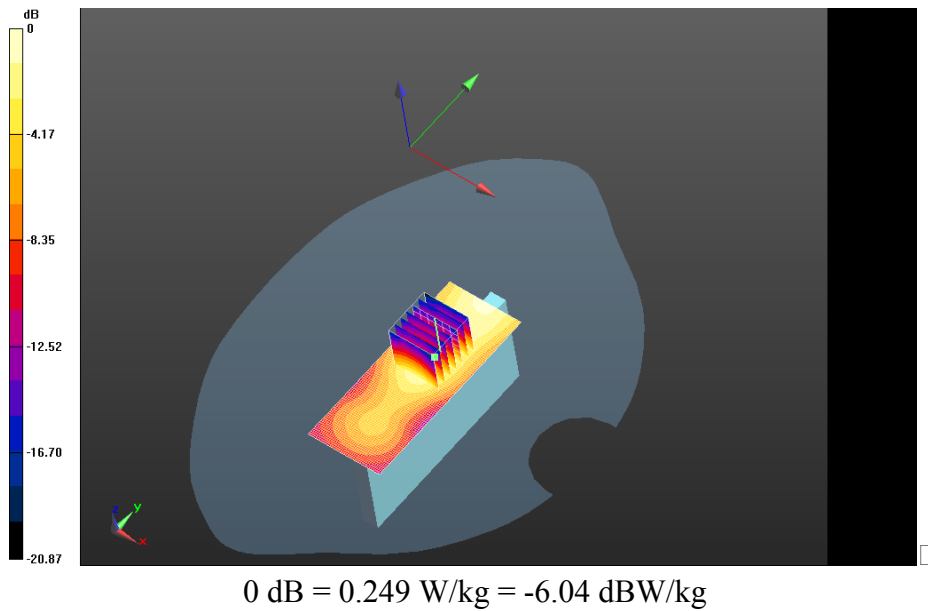
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**Flat-Section MSL_MHS_Body_SAR/Device Right_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1):** Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.139 W/kg

**Flat-Section MSL_MHS_Body_SAR/Device Right_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 8.402 V/m; **Power Drift = 0.075 dB**

Averaged SAR: SAR(1g) = 0.129 W/kg; SAR(10g) = 0.0711 W/kg
Maximum value of SAR (interpolated) = 0.244 W/kg



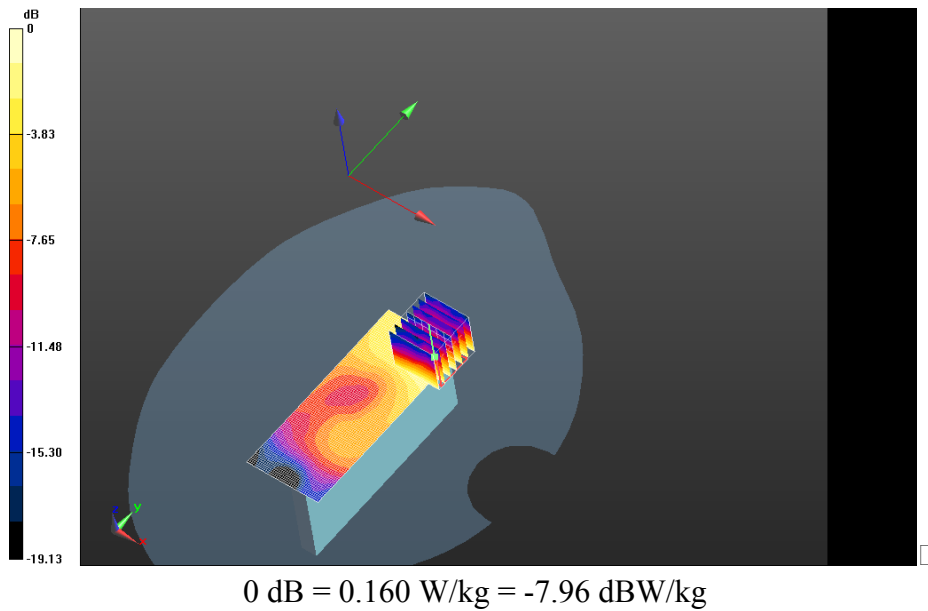
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**Flat-Section MSL_MHS_Body_SAR/Device Left_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1):** Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0529 W/kg

**Flat-Section MSL_MHS_Body_SAR/Device Left_10mm_802.11b_Mid_Chan
_Amb_Temp_23.3C_Liquid_Temp_21.4C/Zoom Scan (31x31x36)/Cube 0:**
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 5.199 V/m; **Power Drift = 0.129 dB**

Averaged SAR: SAR(1g) = 0.0494 W/kg; SAR(10g) = 0.0289 W/kg
Maximum value of SAR (interpolated) = 0.0895 W/kg



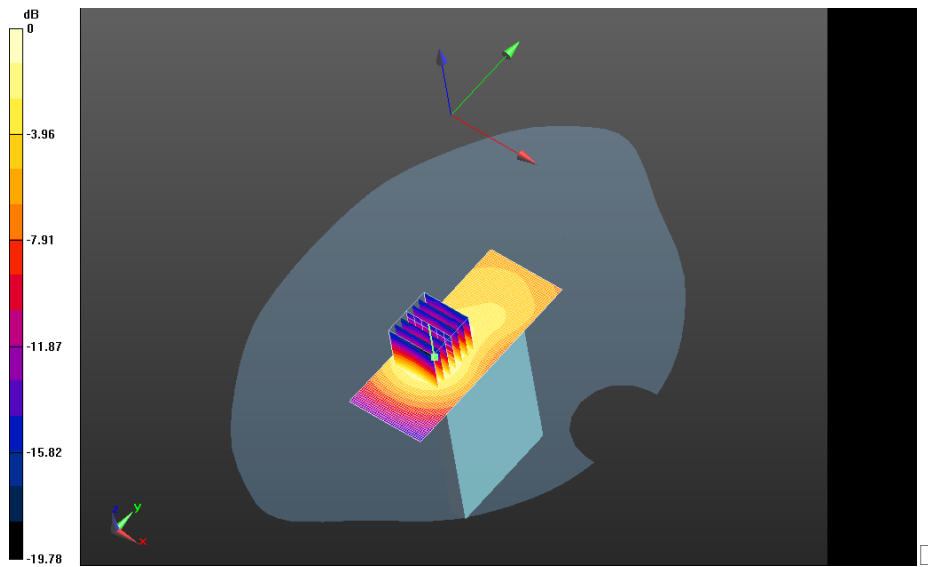
	Document Appendix C2 for the BlackBerry® Smartphone Model RFT81UW SAR Report			Page 56(84)
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Flat-Section MSL_MHS_Body_SAR/Device Bottom_10mm_802.11b_Mid_Chan_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan (41x101x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.112 W/kg

Flat-Section MSL_MHS_Body_SAR/Device Bottom_10mm_802.11b_Mid_Chan_Amb_Temp_23.3C_Liquid_Temp_21.4C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 7.411 V/m; **Power Drift = -0.00647 dB**

Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0573 W/kg
Maximum value of SAR (interpolated) = 0.194 W/kg



0 dB = 0.0599 W/kg = -12.23 dBW/kg

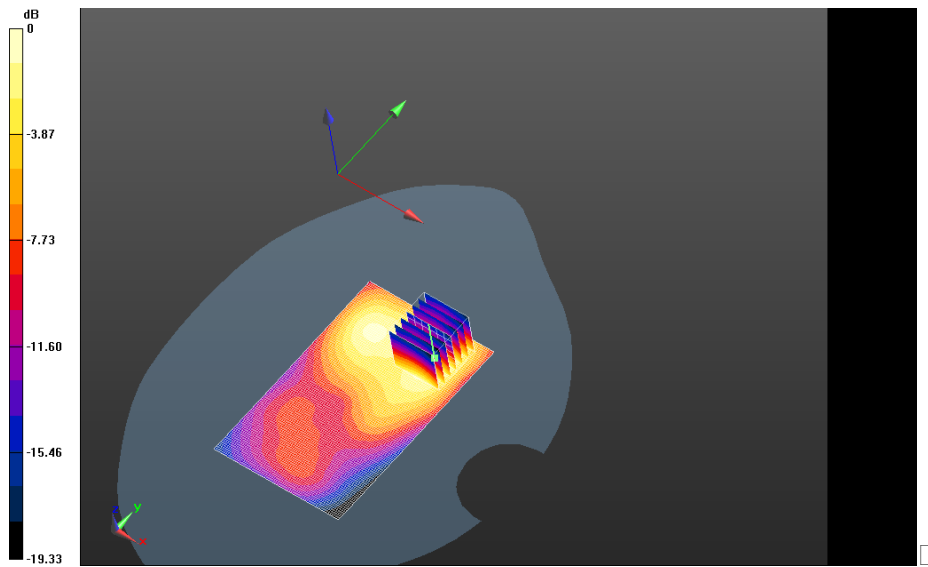
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Flat-Section MSL_MHS_Body_SAR/Device Back+HS_10mm_802.11b_Mid_Chann_Amb_Temp_23.6C_Liquid_Temp_21.5C/Area Scan (71x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.340 W/kg

Flat-Section MSL_MHS_Body_SAR/Device Back+HS_10mm_802.11b_Mid_Chann_Amb_Temp_23.6C_Liquid_Temp_21.5C/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 12.455 V/m; **Power Drift = 0.015 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.149 W/kg
Maximum value of SAR (interpolated) = 0.540 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

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Bluetooth

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Date: 3/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02A54

Configuration: Mobile Hot Spot 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; $\sigma = 1.961$ S/m; $\epsilon_r = 50.399$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.6C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0340 W/kg

Mobile Hot Spot MSL - Bluetooth/10mm Device Back -

Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

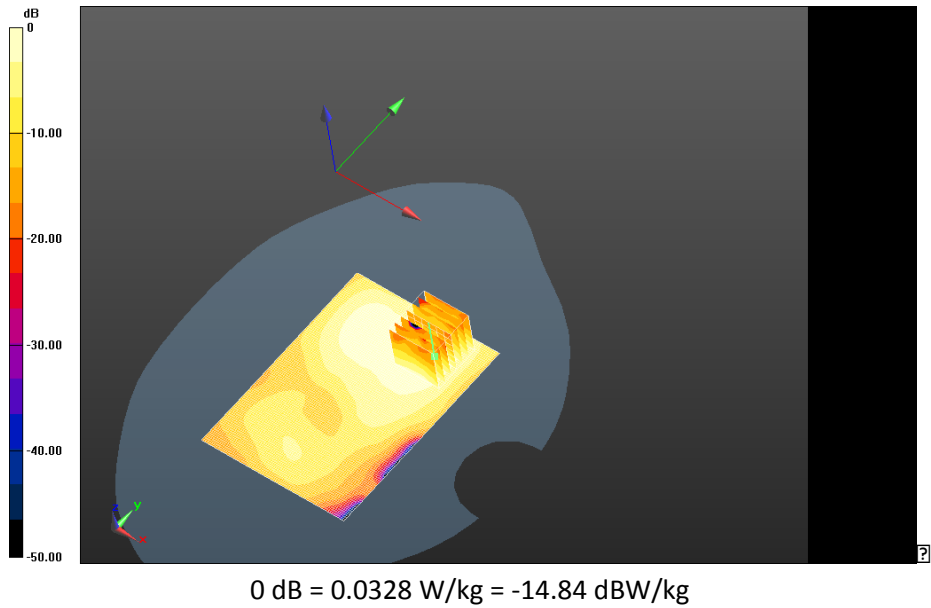
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 3.899 V/m; **Power Drift = 0.049 dB**

Averaged SAR: SAR(1g) = 0.0262 W/kg; SAR(10g) = 0.0142 W/kg

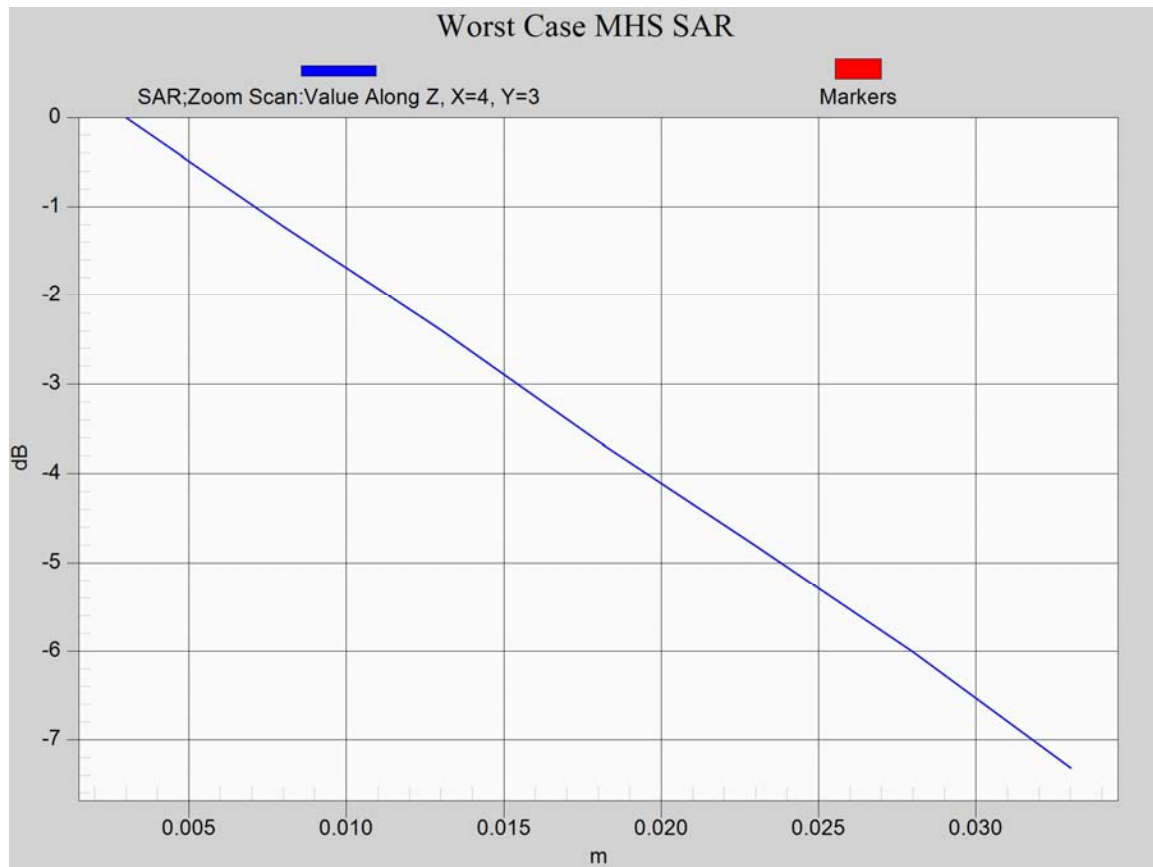
Maximum value of SAR (interpolated) = 0.0495 W/kg

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Z axis plot for the worst case MHS configuration



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Model: RFT81UW

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GPRS 850

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Date: 3/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Mobile Hot Spot MSL - GPRS 850

Communication System: GPRS 850; Communication System Band: GPRS 850; Frequency: 824.2 MHz

Medium Parameters used: $f=825$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.709$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-

slot_chan128_amb_temp_24.5C_liq_temp_22.5C/Area Scan (61x91x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

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

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-

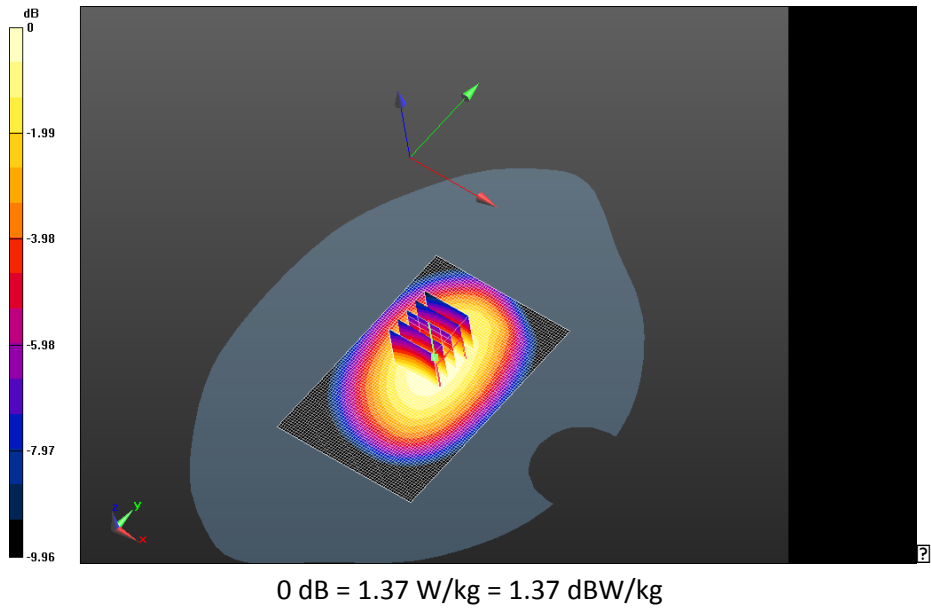
slot_chan128_amb_temp_24.5C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 38.588 V/m; **Power Drift = 0.023 dB**

Averaged SAR: SAR(1g) = 1.24 W/kg; SAR(10g) = 0.919 W/kg

Maximum value of SAR (interpolated) = 1.59 W/kg

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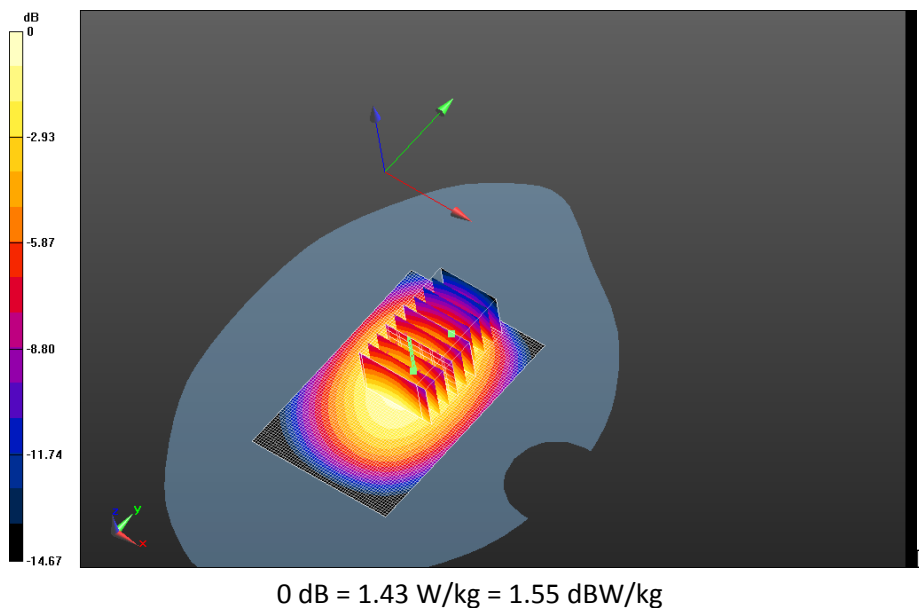
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C_2nd scan/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 37.606 V/m; **Power Drift = -0.031 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C_2nd scan/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 37.606 V/m; **Power Drift = -0.031 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.898 W/kg
Maximum value of SAR (interpolated) = 1.62 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan128_amb_temp_23.4C_liq_temp_21.5C_2nd scan/Zoom Scan 2 (26x46x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 37.606 V/m; **Power Drift = -0.151 dB**

Averaged SAR: SAR(1g) = 1.21 W/kg; SAR(10g) = 0.892 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



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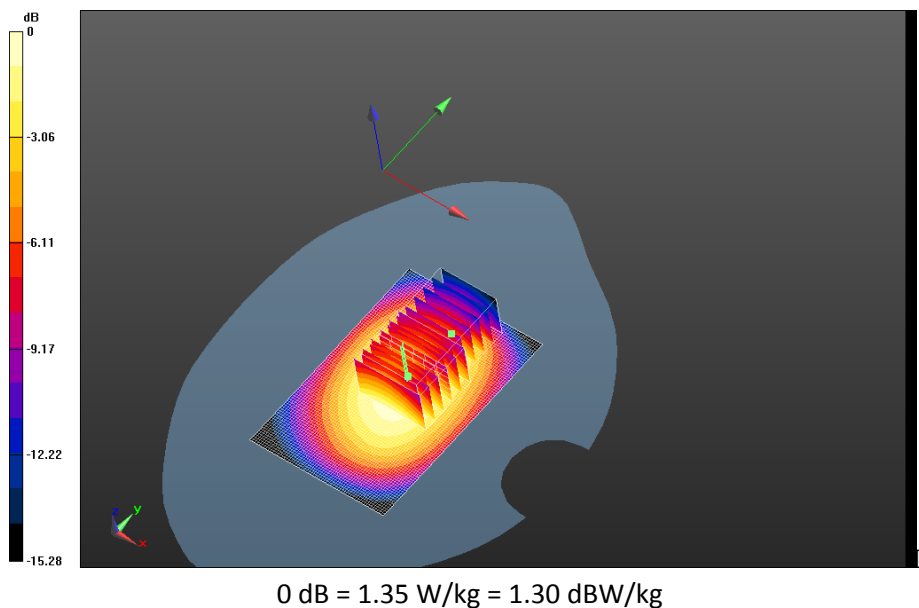
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 38.709 V/m; **Power Drift = -0.269 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 38.709 V/m; **Power Drift = -0.069 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.901 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan190_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 38.709 V/m; **Power Drift = -0.163 dB**

Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.895 W/kg
Maximum value of SAR (interpolated) = 1.64 W/kg



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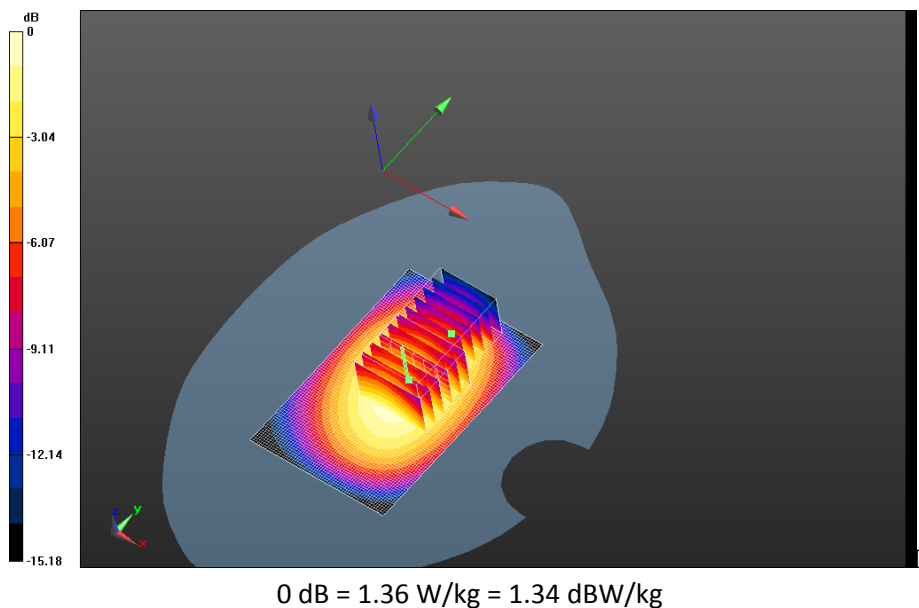
Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Area Scan (61x91x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 35.451 V/m; **Power Drift = -0.211 dB**

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan (31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 35.451 V/m; **Power Drift = -0.211 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.775 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS 850_3-slot_chan251_amb_temp_23.4C_liq_temp_21.5C/Zoom Scan 2 (26x46x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 35.451 V/m; **Power Drift = -0.132 dB**

Averaged SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.775 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



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UMTS Band V

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Date: 3/18/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: MHS UMTS V

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

Frequency: 826.4 MHz

Medium Parameters used: $f=826.4$ MHz; $\sigma = 0.962$ S/m; $\epsilon_r = 53.076$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

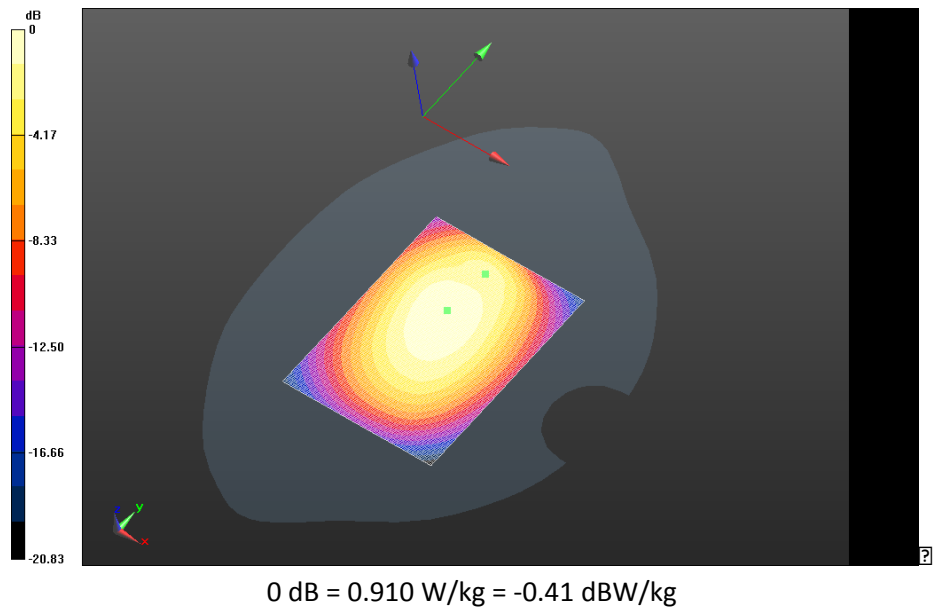
MHS UMTS V/10mm_Back_UMTS_V_chan4132_amb_temp_23.6C_liq_temp_21.7C/Area Scan (101x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 30.635 V/m; **Power Drift = 0.036 dB**

Fast SAR: SAR(1g) = 0.800 W/kg; SAR(10g) = 0.556 W/kg

Maximum value of SAR (interpolated) = 0.910 W/kg

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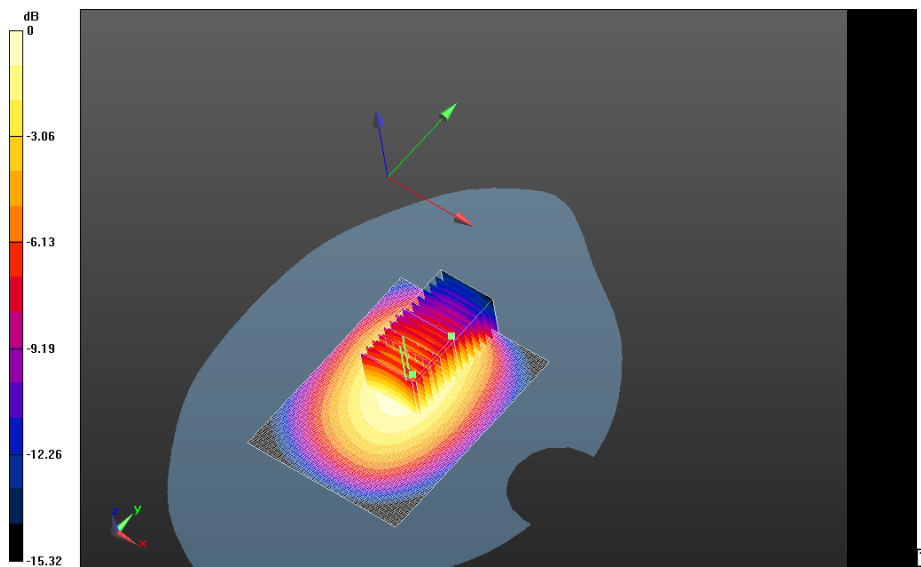
MHS UMTS V/10mm_Back_UMTS_V_chan4182_amb_temp_23.6C_liq_temp_21.7C/Area Scan (101x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 30.830 V/m; **Power Drift = 0.00484 dB**

MHS UMTS V/10mm_Back_UMTS_V_chan4182_amb_temp_23.6C_liq_temp_21.7C/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 30.830 V/m; **Power Drift = 0.00484 dB**

Averaged SAR: SAR(1g) = 0.850 W/kg; SAR(10g) = 0.628 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg

MHS UMTS V/10mm_Back_UMTS_V_chan4182_amb_temp_23.6C_liq_temp_21.7C/Zoom Scan 2 (36x66x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 30.830 V/m; **Power Drift = 0.014 dB**

Averaged SAR: SAR(1g) = 0.842 W/kg; SAR(10g) = 0.624 W/kg
Maximum value of SAR (interpolated) = 1.10 W/kg



0 dB = 0.910 W/kg = -0.41 dBW/kg

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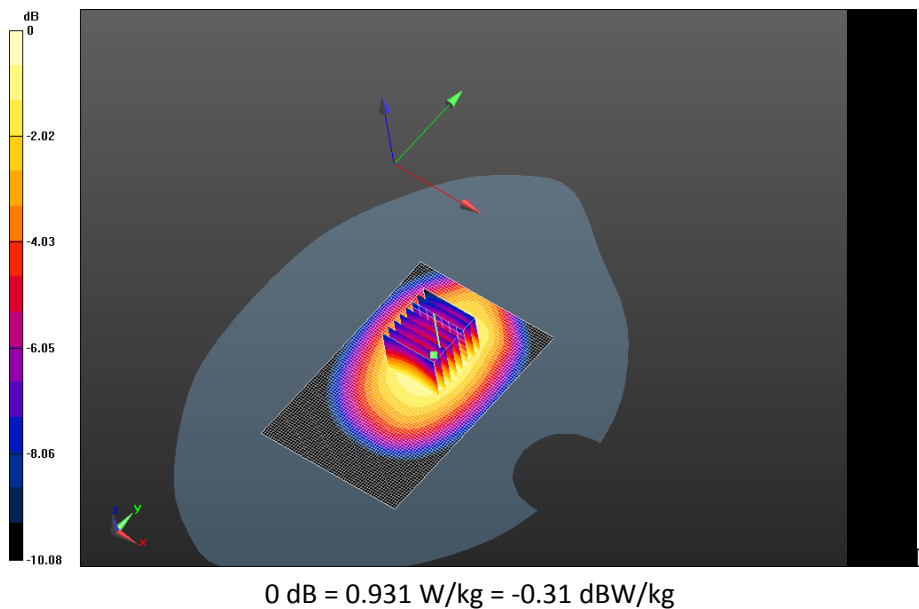
MHS UMTS

V/10mm_Back_UMTS_V_chan4182_amb_temp_23.6C_liq_temp_21.7C_2nd_scan/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 29.636 V/m; **Power Drift = -0.037 dB**

MHS UMTS

V/10mm_Back_UMTS_V_chan4182_amb_temp_23.6C_liq_temp_21.7C_2nd_scan/Zoom Scan (36x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 29.636 V/m; **Power Drift = -0.037 dB**

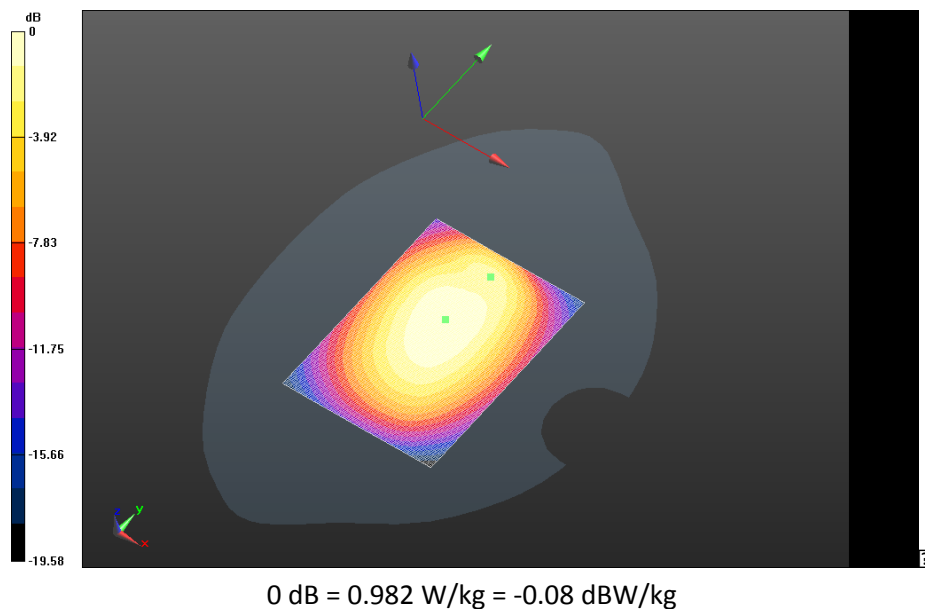
Averaged SAR: SAR(1g) = 0.883 W/kg; SAR(10g) = 0.653 W/kg
Maximum value of SAR (interpolated) = 1.16 W/kg



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MHS UMTS V/10mm_Back_UMTS_V_chan4233_amb_temp_23.6C_liq_temp_21.7C/Area Scan (101x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 29.982 V/m; **Power Drift = 0.177 dB**

Fast SAR: SAR(1g) = 0.779 W/kg; SAR(10g) = 0.544 W/kg
Maximum value of SAR (interpolated) = 0.884 W/kg



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GPRS 1900

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Date: 3/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2AB02B80

Configuration: Mobile Hot Spot MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.513$ S/m; $\epsilon_r = 50.890$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 15.521 V/m; **Power Drift = -0.181 dB**

Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS

1900_mid_chan_amb_temp_23.7C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:

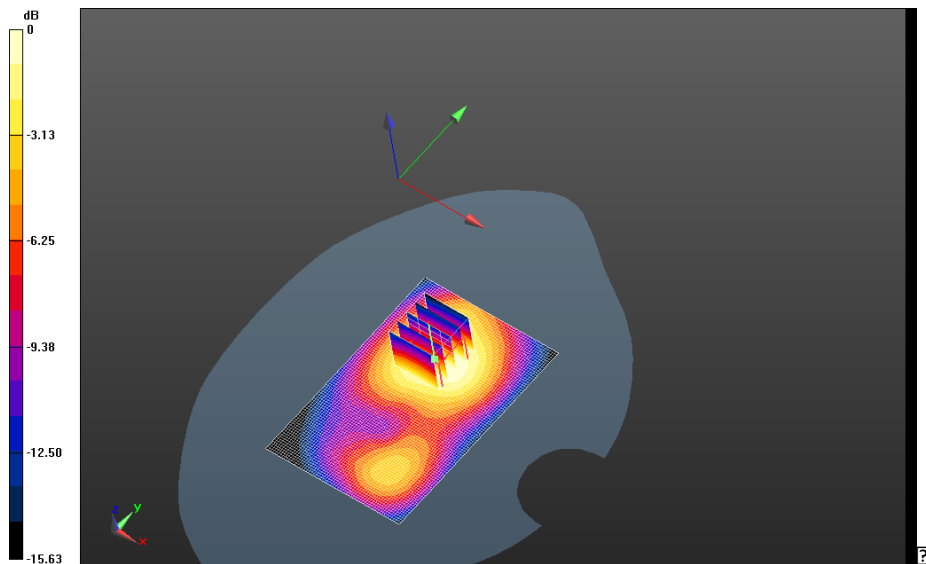
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 15.521 V/m; **Power Drift = -0.181 dB**

Averaged SAR: SAR(1g) = 0.746 W/kg; SAR(10g) = 0.464 W/kg

Maximum value of SAR (interpolated) = 1.17 W/kg

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0 dB = 0.873 W/kg = -0.59 dBW/kg

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Date/Time: 4/14/2013 11:42:41 PM

Test Laboratory: RIM Testing Services

10mm_Front_MHS_GPRS1900-Rev1-01

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB02B80

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ S/m}$; $\epsilon_r = 50.98$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.04, 5.04, 5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS 1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Area Scan (61x91x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.942 W/kg

Mobile Hot Spot MSL - GPRS 1900/10mm Device Front - GPRS 1900_mid_chan_amb_temp_23.0C_liq_temp_21.1C/Zoom Scan

(6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

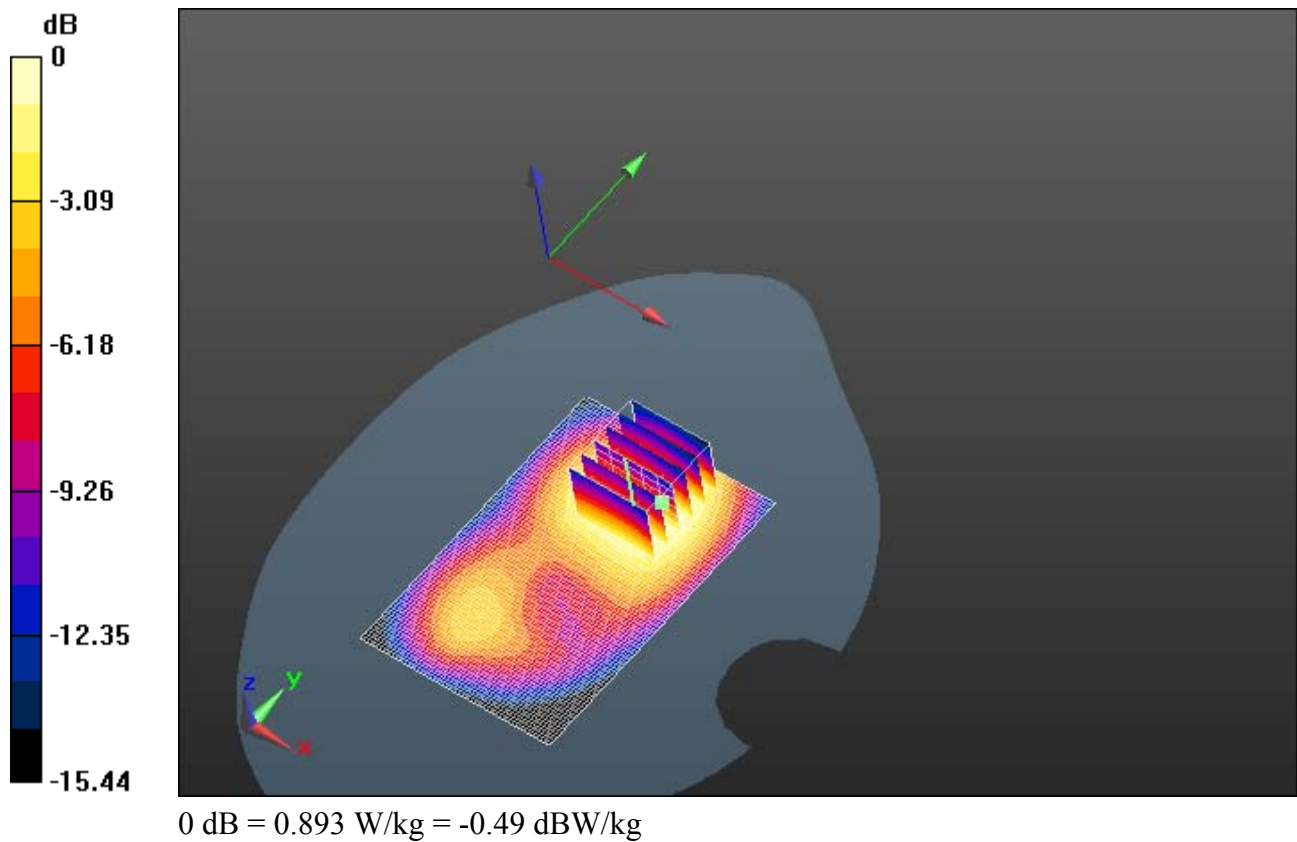
Reference Value = 25.076 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.773 W/kg ; SAR(10 g) = 0.499 W/kg

Maximum value of SAR (measured) = 0.893 W/kg

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UMTS Band II

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Date: 4/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2FFF9A4D

Configuration: Mobile Hot Spot MSL - UMTS Band II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1907.6 MHz

Medium Parameters used: $f=1907.6$ MHz; $\sigma = 1.544$ S/m; $\epsilon_r = 50.734$; $\rho = 1.000$ g/cm³

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 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9538_amb_temp_23.9C_liq_temp_22.4/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9538_amb_temp_23.9C_liq_temp_22.4/Zoom Scan (26x26x36)/Cube 0:

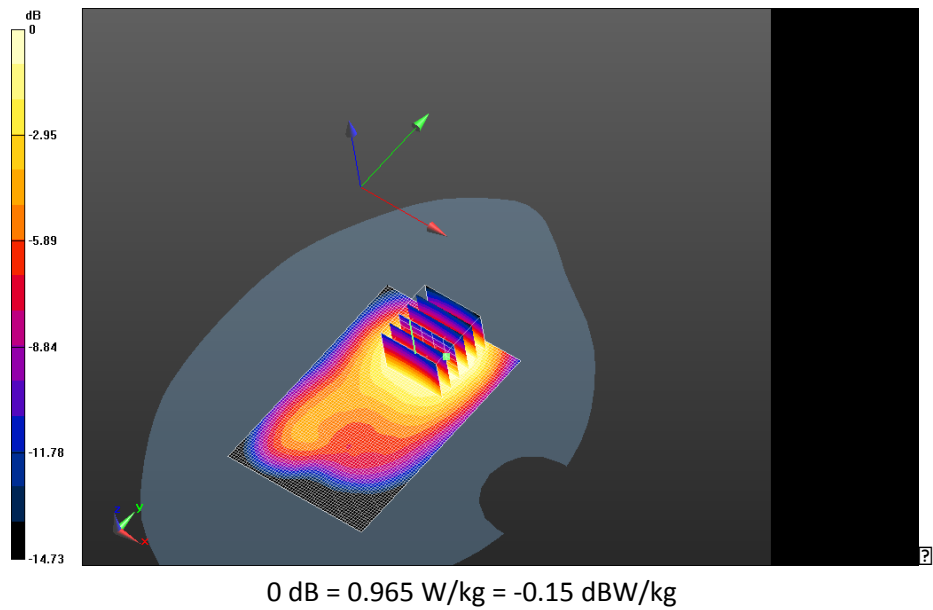
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 15.806 V/m; **Power Drift = -0.173 dB**

Averaged SAR: SAR(1g) = 0.833 W/kg; SAR(10g) = 0.534 W/kg

Maximum value of SAR (interpolated) = 1.36 W/kg

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Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

UMTS_II_chan9538_amb_temp_23.9C_liq_temp_22.4_2nd/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

Mobile Hot Spot MSL - UMTS Band II/10mm Device Front -

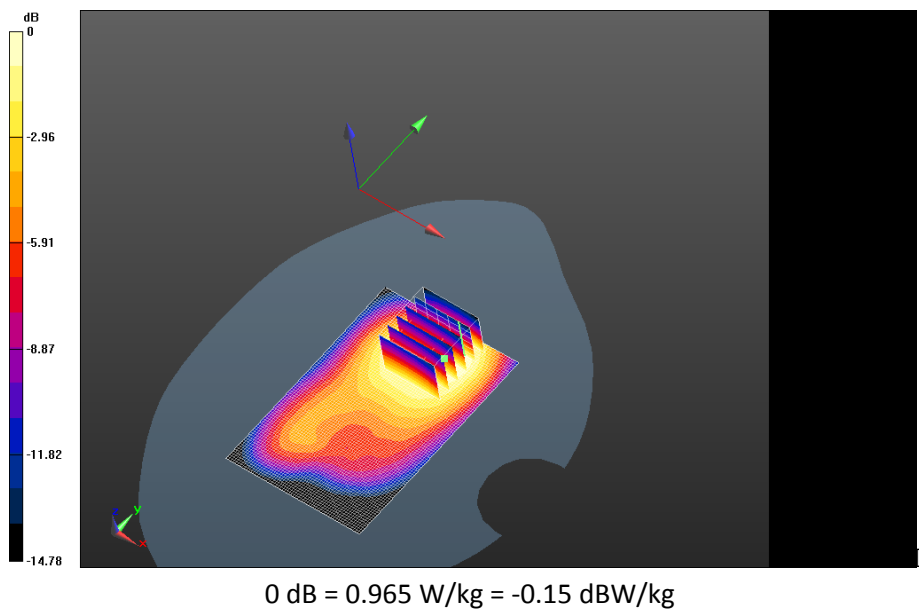
UMTS_II_chan9538_amb_temp_23.9C_liq_temp_22.4_2nd/Zoom Scan (26x26x36)/Cube 0:

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

Reference Value = 15.413 V/m; **Power Drift = 0.00297 dB**

Averaged SAR: SAR(1g) = 0.807 W/kg; SAR(10g) = 0.522 W/kg

Maximum value of SAR (interpolated) = 1.36 W/kg



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Z axis plot for the worst case MHS configuration

