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APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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LTE Band 17

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Date: 7/12/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Body Worn MSL - LTE Band 17

Communication System: LTE band 17; Communication System Band: LTE 17; Frequency: 709 MHz

Medium Parameters used: $f=709$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 54.583$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.27,6.27,6.27); 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 17/15mm Device Back -

LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.1C_liq_temp_22.5C/Area Scan

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

Reference Value = 20.288 V/m; **Power Drift = 0.093 dB**

Body Worn MSL - LTE Band 17/15mm Device Back -

LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.1C_liq_temp_22.5C/Zoom Scan

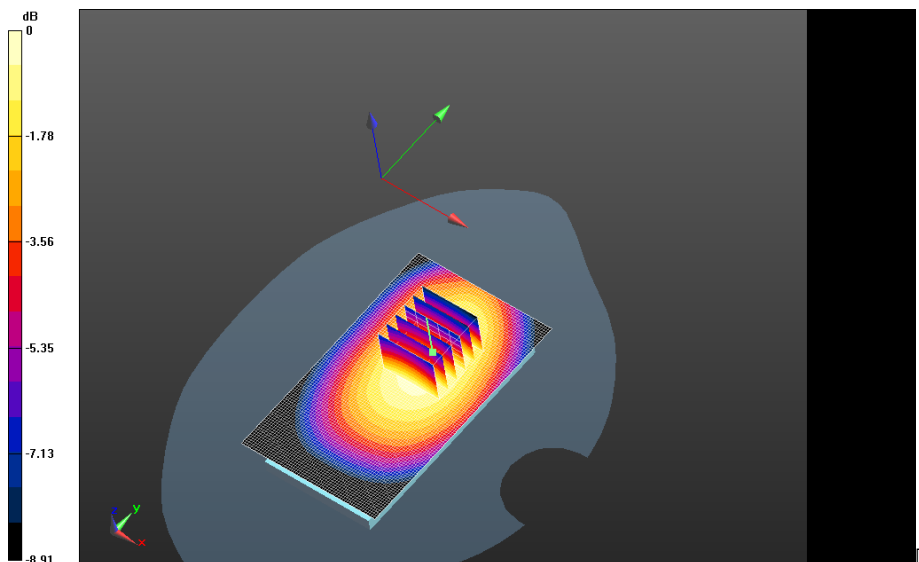
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 20.288 V/m; **Power Drift = 0.093 dB**

Averaged SAR: SAR(1g) = 0.389 W/kg; SAR(10g) = 0.296 W/kg

Maximum value of SAR (interpolated) = 0.498 W/kg

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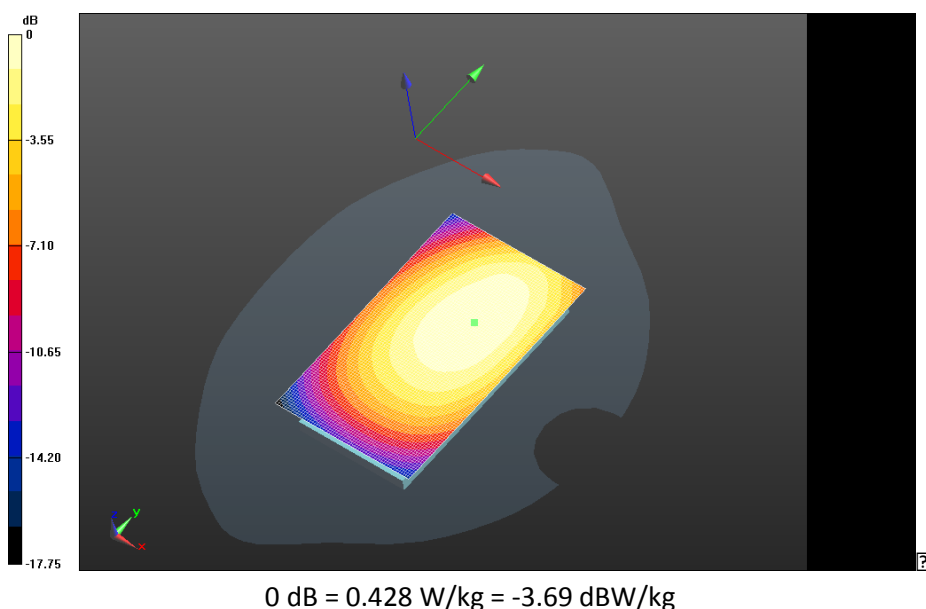


0 dB = 0.428 W/kg = -3.69 dBW/kg

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Body Worn MSL - LTE Band 17/15mm Device Front -
LTE_Band_17_chan23780_RB1_Off0_amb_temp_24.1C_liq_temp_22.5C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.825 V/m; **Power Drift = 0.041 dB**

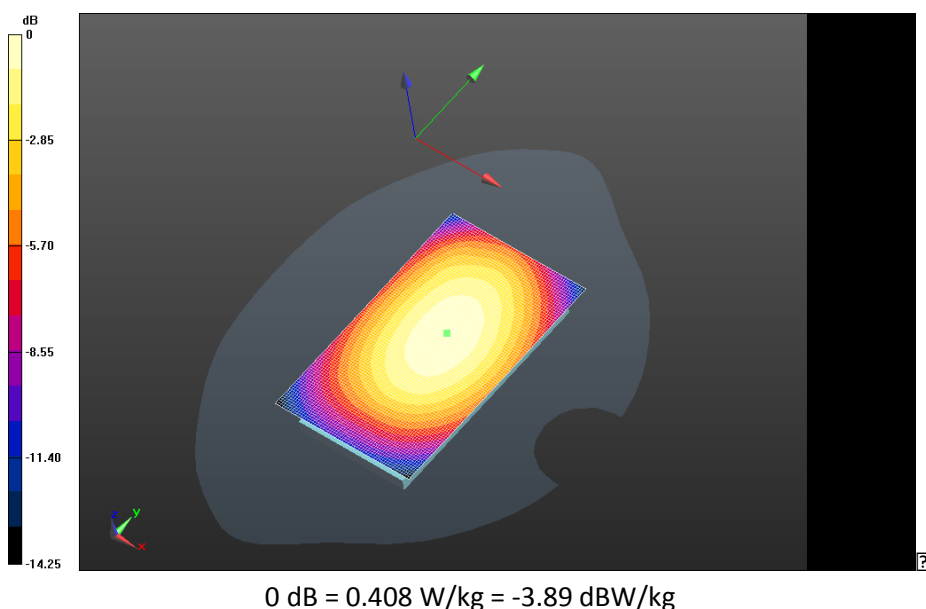
Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.259 W/kg
Maximum value of SAR (interpolated) = 0.408 W/kg



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Body Worn MSL - LTE Band 17/Holster Device Back -
LTE_Band_17_chan23780_RB1_Off0_amb_temp_23.8C_liq_temp_22.8C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.484 V/m; **Power Drift = -0.062 dB**

Fast SAR: SAR(1g) = 0.345 W/kg; SAR(10g) = 0.244 W/kg
Maximum value of SAR (interpolated) = 0.391 W/kg



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LTE 5

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Date: 7/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

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/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 52.8.6(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 = 21.424 V/m; **Power Drift = -0.020 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

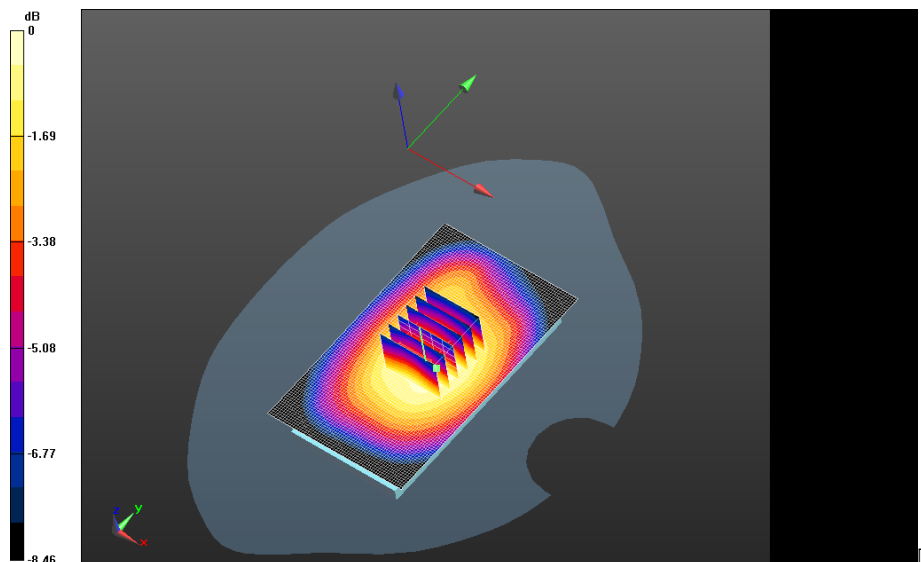
(26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 21.424 V/m; **Power Drift = -0.020 dB**

Averaged SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.287 W/kg

Maximum value of SAR (interpolated) = 0.479 W/kg

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

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Body Worn MSL - LTE Band 5/15mm Device Front -

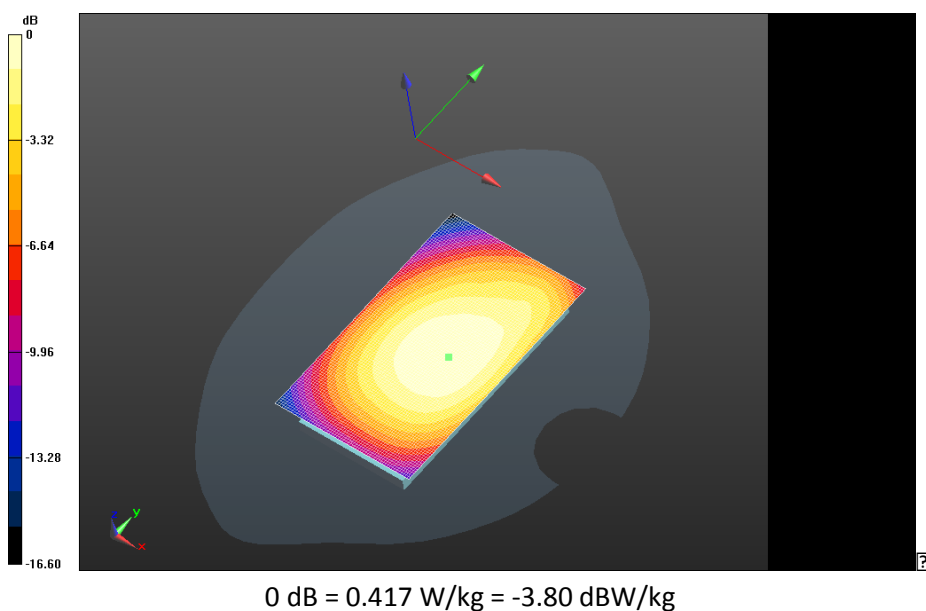
LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.3C_liq_temp_22.3C/Area Scan

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

Reference Value = 22.082 V/m; **Power Drift = -0.028 dB**

Fast SAR: SAR(1g) = 0.397 W/kg; SAR(10g) = 0.280 W/kg

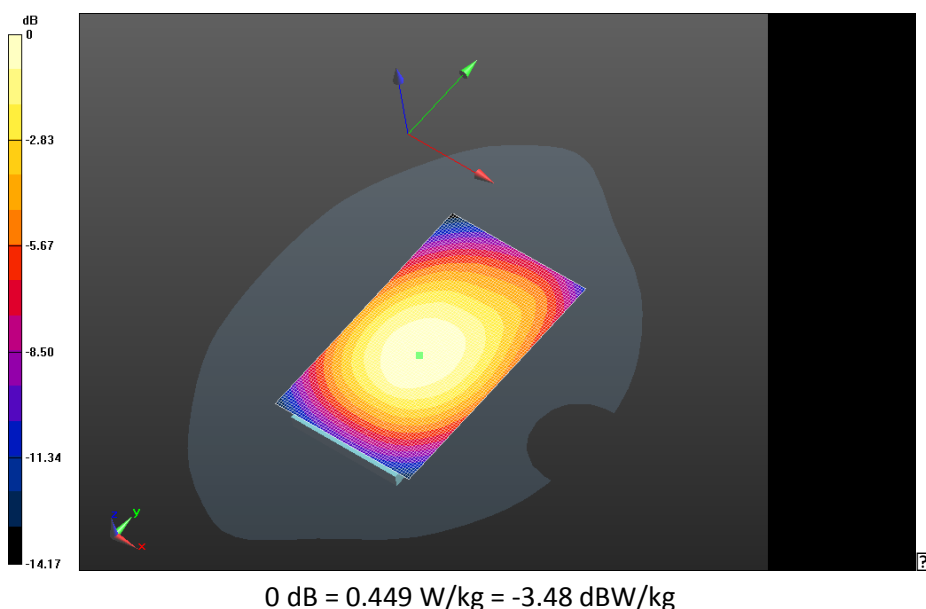
Maximum value of SAR (interpolated) = 0.449 W/kg



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Body Worn MSL - LTE Band 5/Holster Device Front -
LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.5C_liq_temp_22.3C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.475 V/m; **Power Drift = 0.271 dB**

Fast SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.213 W/kg
Maximum value of SAR (interpolated) = 0.342 W/kg



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DTM/GSM 850

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Date: 7/15/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (4 slots); Communication System Band: GPRS (4 slots);

Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.970$ S/m; $\epsilon_r = 53.234$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_4-

Slots_chan190_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 27.373 V/m; **Power Drift = -0.063 dB**

Body Worn MSL - GPRS 850/15mm Device Back - GPRS850_4-

Slots_chan190_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:

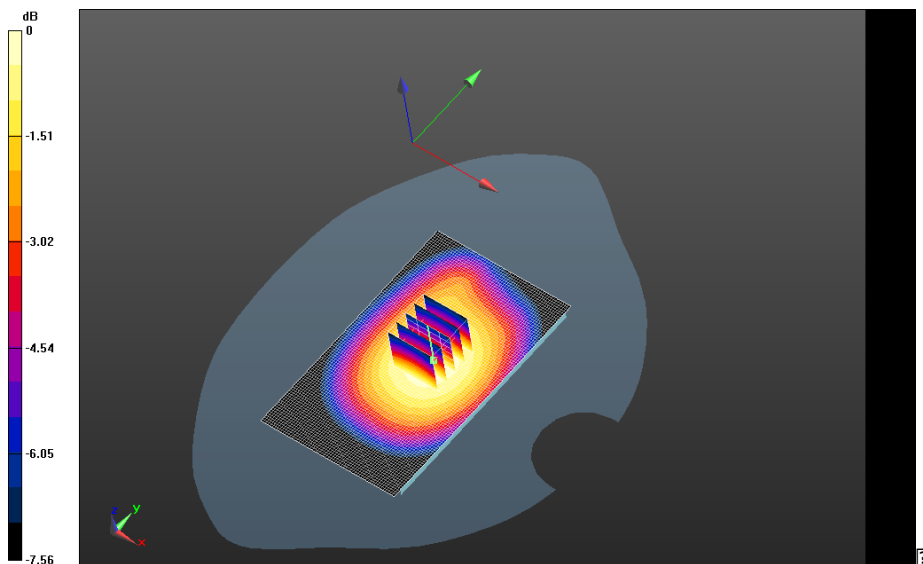
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 27.373 V/m; **Power Drift = -0.063 dB**

Averaged SAR: SAR(1g) = 0.614 W/kg; SAR(10g) = 0.468 W/kg

Maximum value of SAR (interpolated) = 0.776 W/kg

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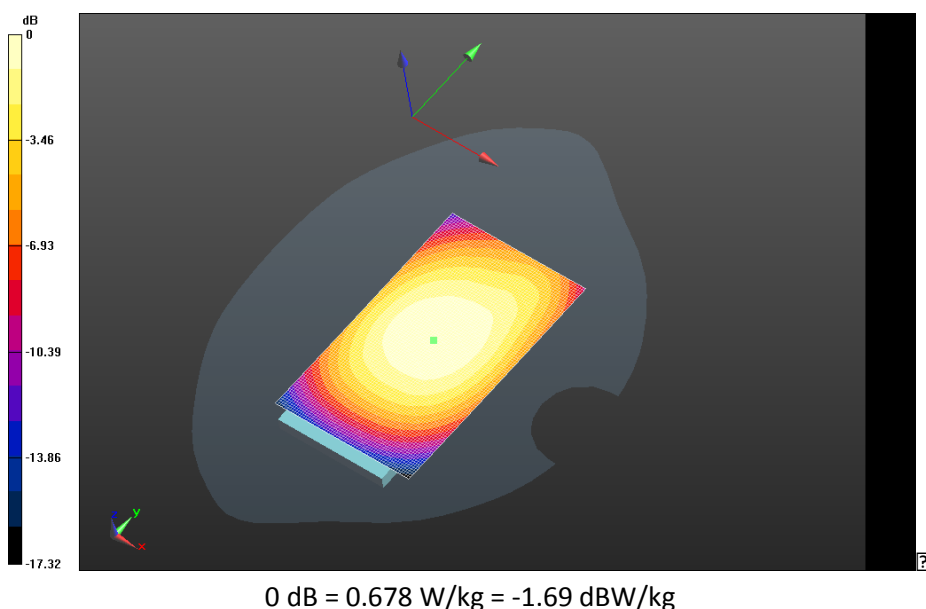


0 dB = 0.678 W/kg = -1.69 dBW/kg

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Body Worn MSL - GPRS 850/15mm Device Front - GPRS850_4-
Slots_chan190_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 27.223 V/m; **Power Drift = -0.000469 dB**

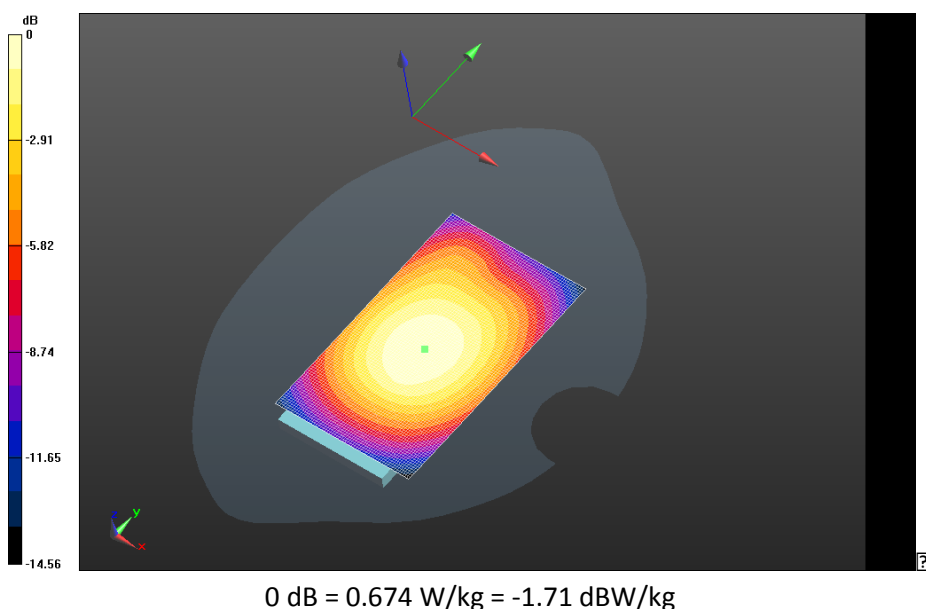
Fast SAR: SAR(1g) = 0.598 W/kg; SAR(10g) = 0.423 W/kg
Maximum value of SAR (interpolated) = 0.674 W/kg



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Body Worn MSL - GPRS 850/Holster Device Back - GPRS850_4-
Slots_chan190_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 24.120 V/m; **Power Drift = -0.130 dB**

Fast SAR: SAR(1g) = 0.472 W/kg; SAR(10g) = 0.331 W/kg
Maximum value of SAR (interpolated) = 0.535 W/kg



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Date: 8/16/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Body Worn MSL - GPRS 850 Extra

Communication System: GPRS 850 (4 slots); Communication System Band: GPRS (4 slots);

Frequency: 824.2 MHz

Medium Parameters used: $f=825$ MHz; $\sigma = 0.954$ S/m; $\epsilon_r = 54.167$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - GPRS 850 Extra/15mm Device Back - GPRS850_4-

Slots_chan128_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 25.465 V/m; **Power Drift = 0.00982 dB**

Body Worn MSL - GPRS 850 Extra/15mm Device Back - GPRS850_4-

Slots_chan128_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:

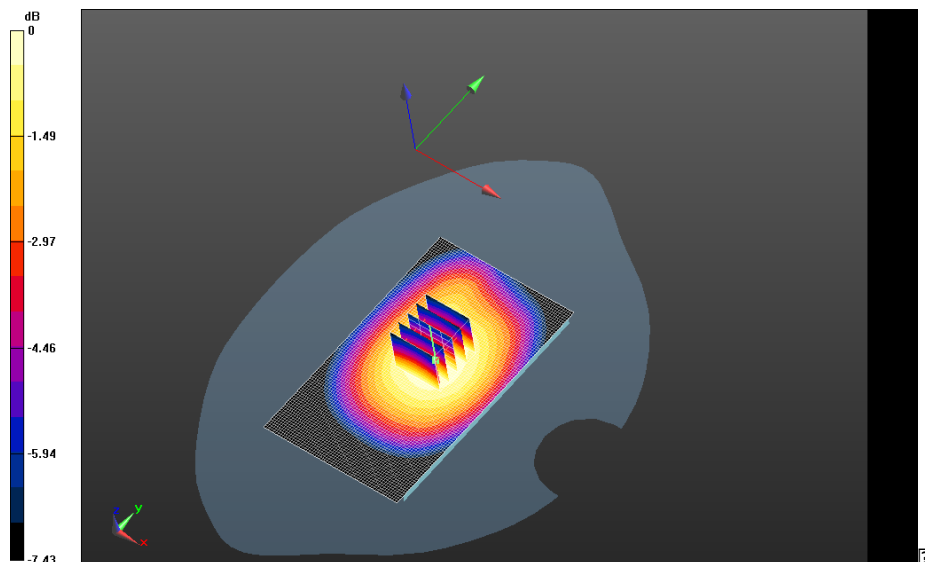
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 25.465 V/m; **Power Drift = 0.00982 dB**

Averaged SAR: SAR(1g) = 0.538 W/kg; SAR(10g) = 0.412 W/kg

Maximum value of SAR (interpolated) = 0.667 W/kg

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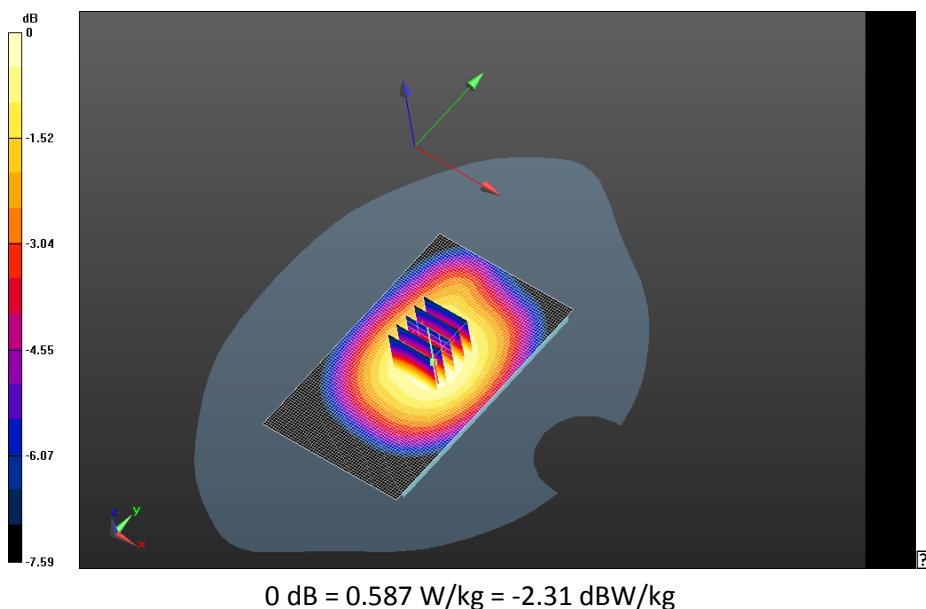
0 dB = 0.587 W/kg = -2.31 dBW/kg

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Body Worn MSL - GPRS 850 Extra/15mm Device Back - GPRS850_4-Slots_chan251_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 23.692 V/m; **Power Drift = -0.161 dB**

Body Worn MSL - GPRS 850 Extra/15mm Device Back - GPRS850_4-Slots_chan251_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 = 23.692 V/m; **Power Drift = -0.161 dB**

Averaged SAR: SAR(1g) = 0.454 W/kg; SAR(10g) = 0.345 W/kg
Maximum value of SAR (interpolated) = 0.563 W/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: 2FFFE9A7

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/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 52.8.6(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 = 20.832 V/m; **Power Drift = -0.029 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

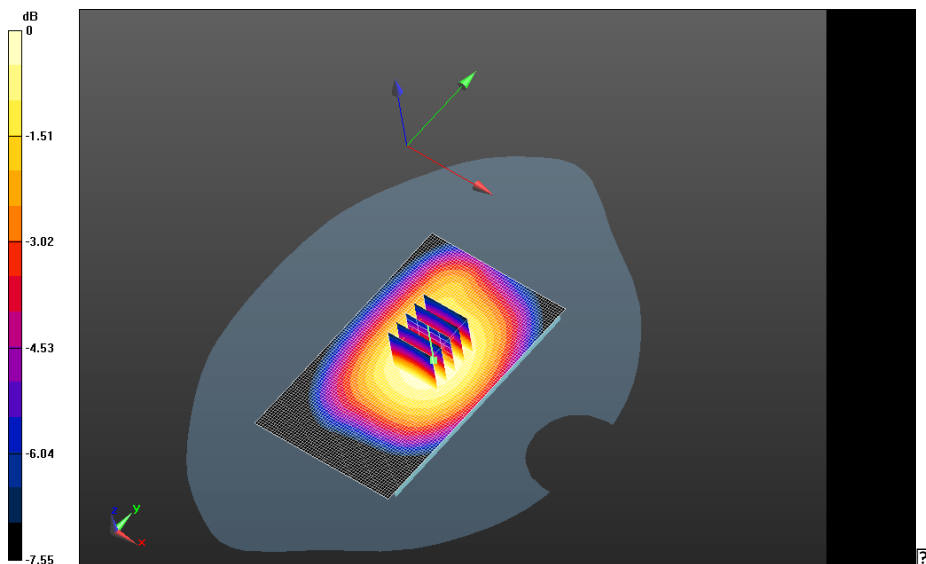
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 20.832 V/m; **Power Drift = -0.029 dB**

Averaged SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.274 W/kg

Maximum value of SAR (interpolated) = 0.446 W/kg

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0 dB = 0.392 W/kg = -4.07 dBW/kg

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Body Worn MSL - UMTS band V/15mm Device Front - UMTS_band

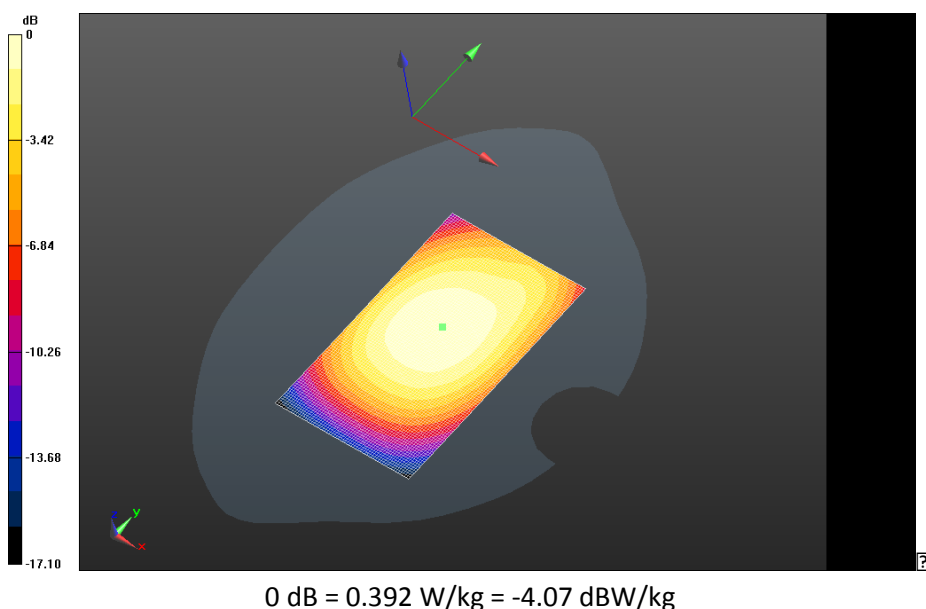
V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 21.430 V/m; **Power Drift = 0.00403 dB**

Fast SAR: SAR(1g) = 0.372 W/kg; SAR(10g) = 0.263 W/kg

Maximum value of SAR (interpolated) = 0.420 W/kg



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Body Worn MSL - UMTS band V/Holster Device Front - UMTS_band

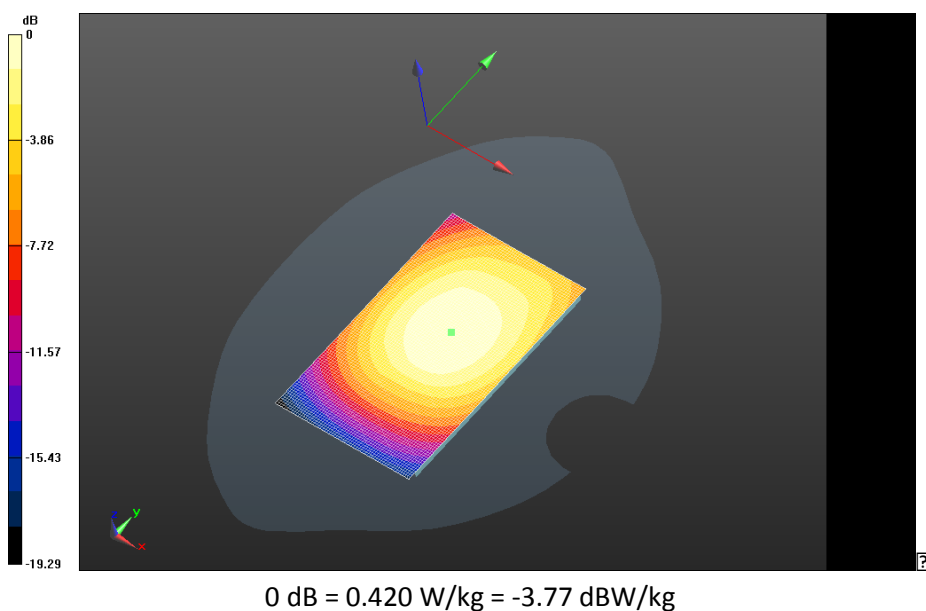
V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 18.813 V/m; **Power Drift = 0.081 dB**

Fast SAR: SAR(1g) = 0.291 W/kg; SAR(10g) = 0.205 W/kg

Maximum value of SAR (interpolated) = 0.330 W/kg



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LTE 4

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Date: 7/12/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Body Worn MSL - LTE Band 4

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used: $f=1720$ MHz; $\sigma = 1.489$ S/m; $\epsilon_r = 50.876$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.2C_liq_temp_22.2C/Area Scan

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

Reference Value = 9.327 V/m; **Power Drift = 0.073 dB**

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

LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan

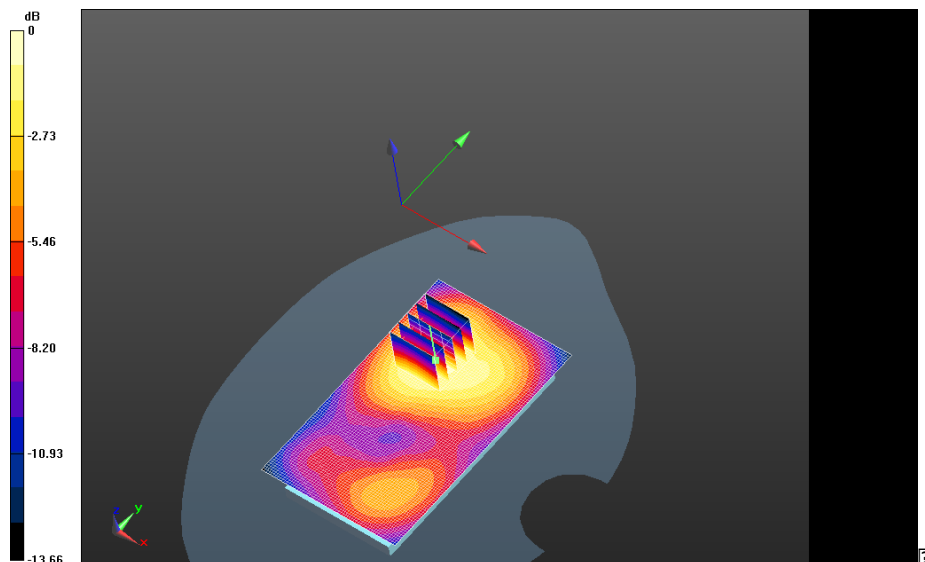
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.327 V/m; **Power Drift = 0.073 dB**

Averaged SAR: SAR(1g) = 0.511 W/kg; SAR(10g) = 0.319 W/kg

Maximum value of SAR (interpolated) = 0.803 W/kg

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

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Body Worn MSL - LTE Band 4/15mm Device Front -

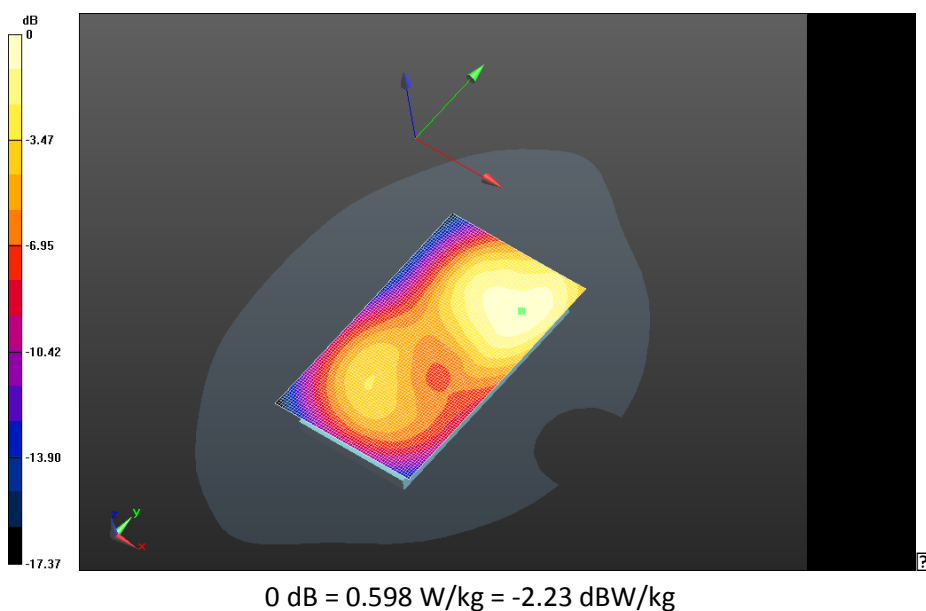
LTE_Band_4_chan20050_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan

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

Reference Value = 9.060 V/m; **Power Drift = 0.064 dB**

Fast SAR: SAR(1g) = 0.463 W/kg; SAR(10g) = 0.288 W/kg

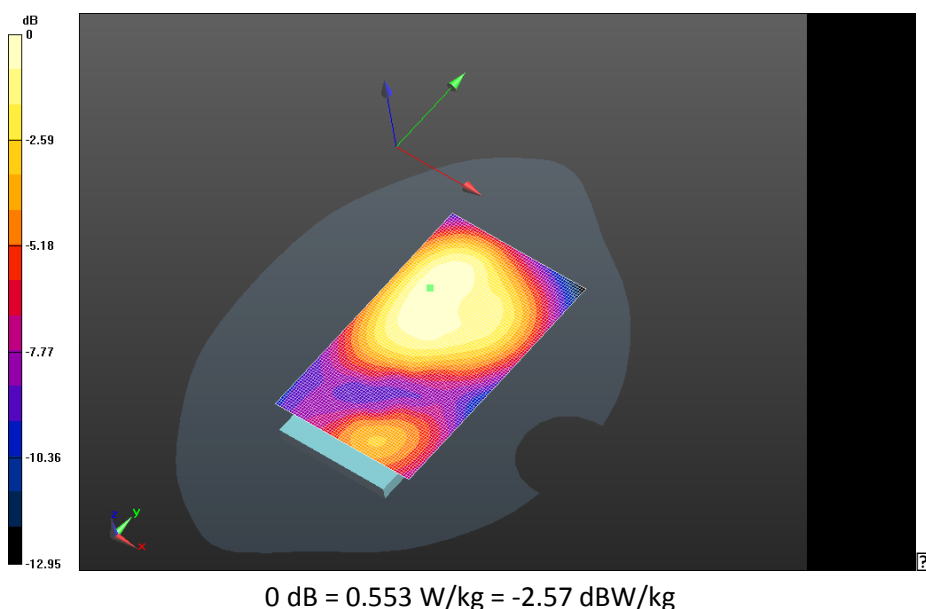
Maximum value of SAR (interpolated) = 0.553 W/kg



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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Body Worn MSL - LTE Band 4/Holster Device Back -
LTE_Band_4_chan20050_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 = 9.611 V/m; **Power Drift = -0.102 dB**

Fast SAR: SAR(1g) = 0.272 W/kg; SAR(10g) = 0.175 W/kg
Maximum value of SAR (interpolated) = 0.319 W/kg



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UMTS Band IV

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Date: 7/10/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

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/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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

UMTS_IV_chan1413_amb_temp_23.1C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.100 V/m; **Power Drift = -0.053 dB**

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

UMTS_IV_chan1413_amb_temp_23.1C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0:

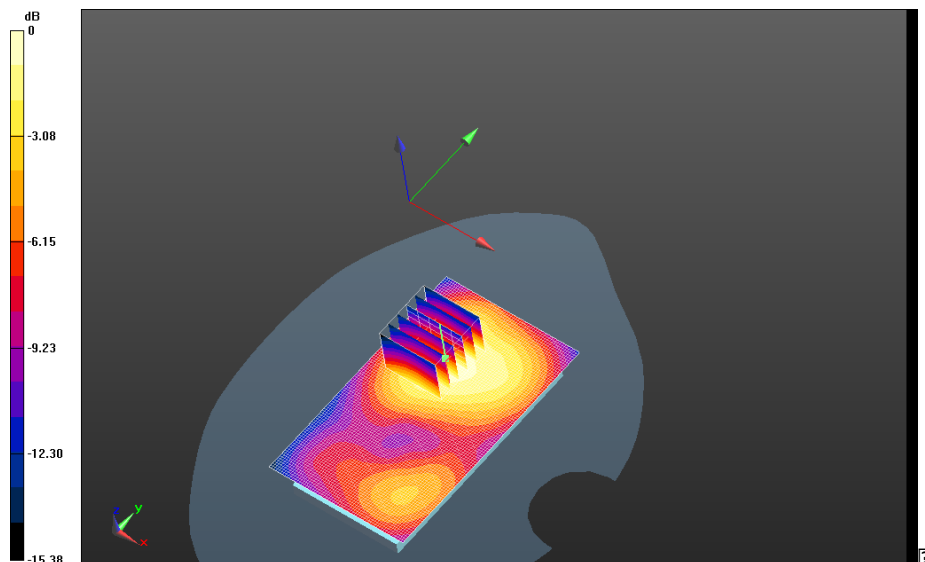
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.100 V/m; **Power Drift = -0.053 dB**

Averaged SAR: SAR(1g) = 0.547 W/kg; SAR(10g) = 0.346 W/kg

Maximum value of SAR (interpolated) = 0.848 W/kg

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0 dB = 0.637 W/kg = -1.96 dBW/kg

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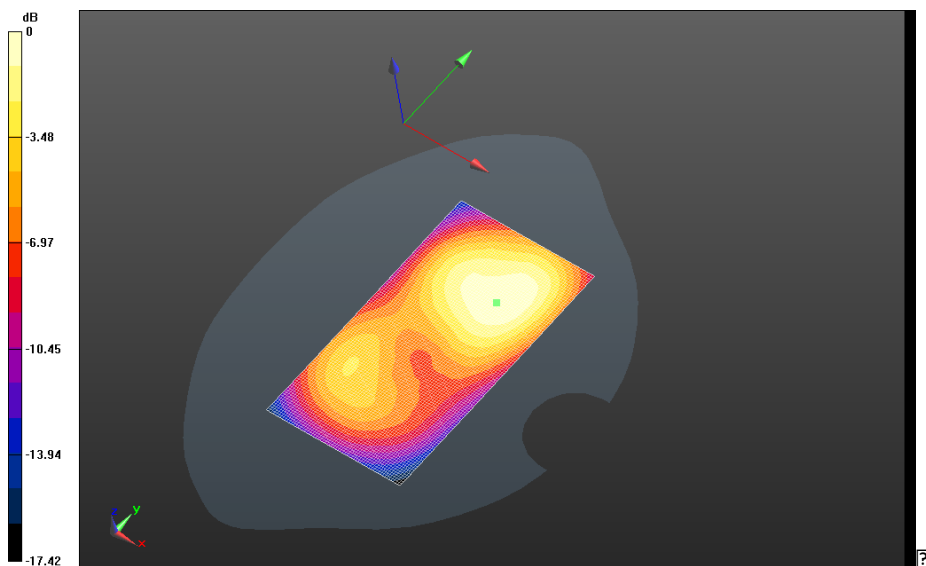
Body Worn MSL - UMTS IV/15mm Device Front -

UMTS_IV_chan1413_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.981 V/m; **Power Drift = -0.031 dB**

Fast SAR: SAR(1g) = 0.526 W/kg; SAR(10g) = 0.329 W/kg

Maximum value of SAR (interpolated) = 0.624 W/kg



0 dB = 0.637 W/kg = -1.96 dBW/kg

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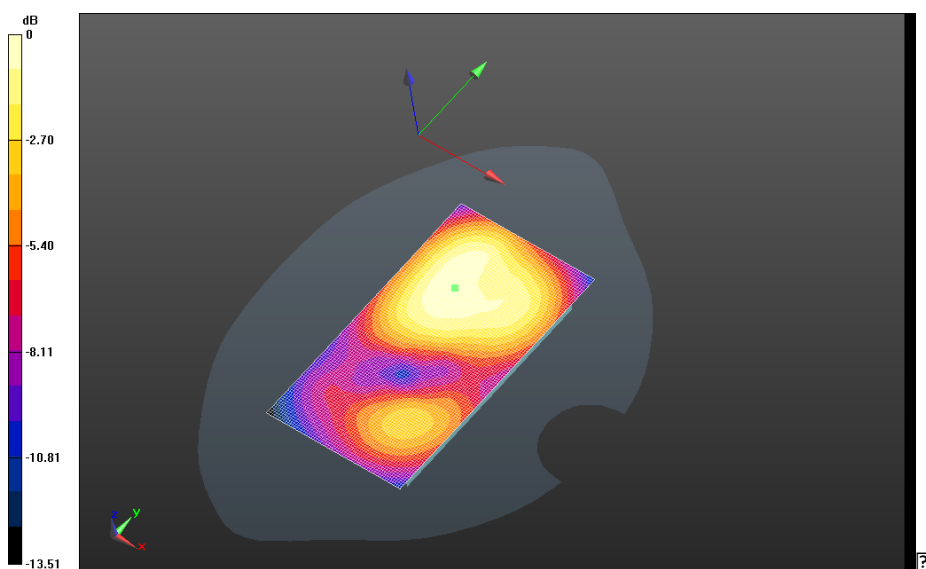
Body Worn MSL - UMTS IV/Holster Device Back -

UMTS_IV_chan1413_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.850 V/m; **Power Drift = 0.00194 dB**

Fast SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.212 W/kg

Maximum value of SAR (interpolated) = 0.398 W/kg



0 dB = 0.624 W/kg = -2.05 dBW/kg

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DTM/GSM 1900

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Date: 7/5/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

Configuration: Body Worn MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.549$ S/m; $\epsilon_r = 51.206$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

GSM1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.254 V/m; **Power Drift = -0.022 dB**

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

GSM1900_chan661_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:

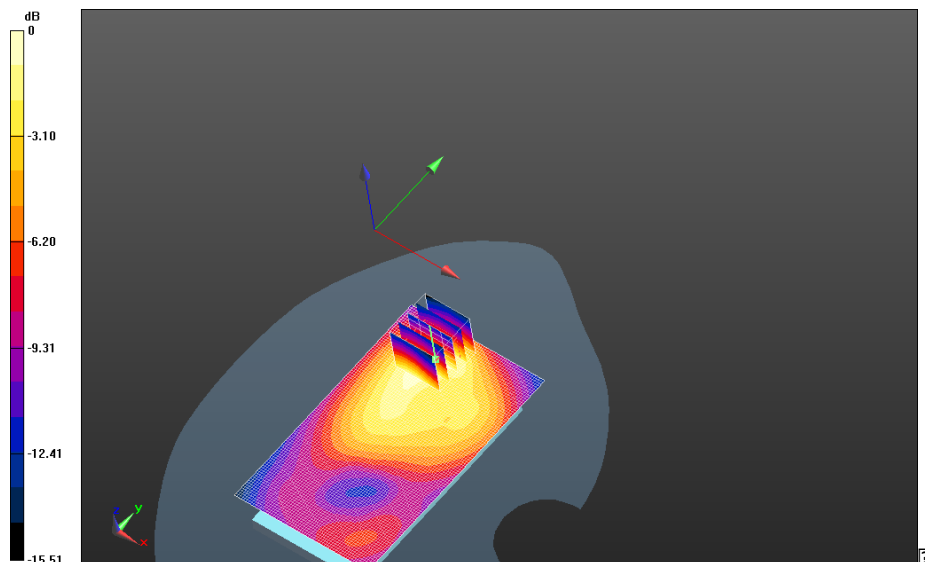
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.254 V/m; **Power Drift = -0.022 dB**

Averaged SAR: SAR(1g) = 0.286 W/kg; SAR(10g) = 0.171 W/kg

Maximum value of SAR (interpolated) = 0.450 W/kg

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0 dB = 0.344 W/kg = -4.63 dBW/kg

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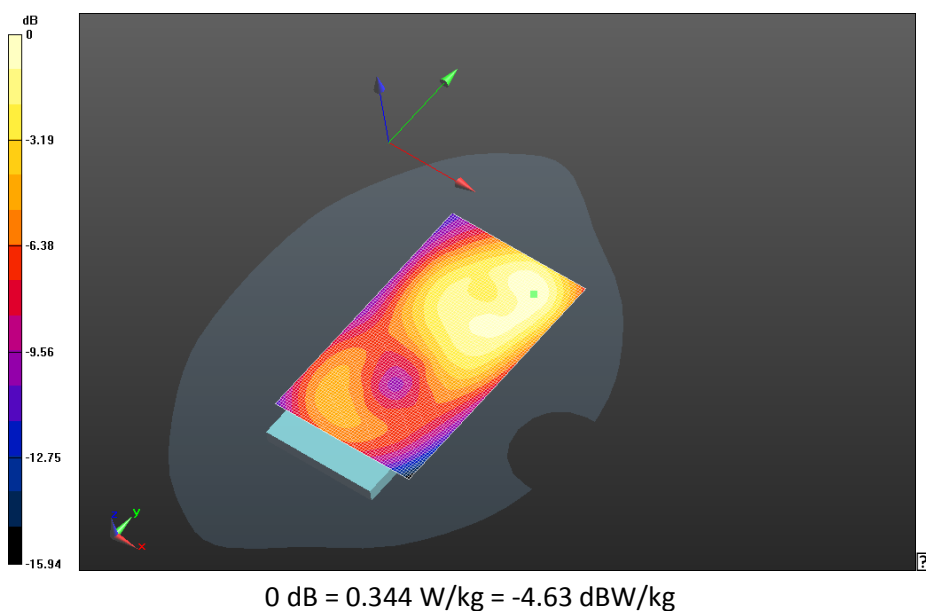
Body Worn MSL - GPRS 1900/15mm Device Front -

GSM1900_chan661_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.056 V/m; **Power Drift = 0.040 dB**

Fast SAR: SAR(1g) = 0.184 W/kg; SAR(10g) = 0.109 W/kg

Maximum value of SAR (interpolated) = 0.224 W/kg



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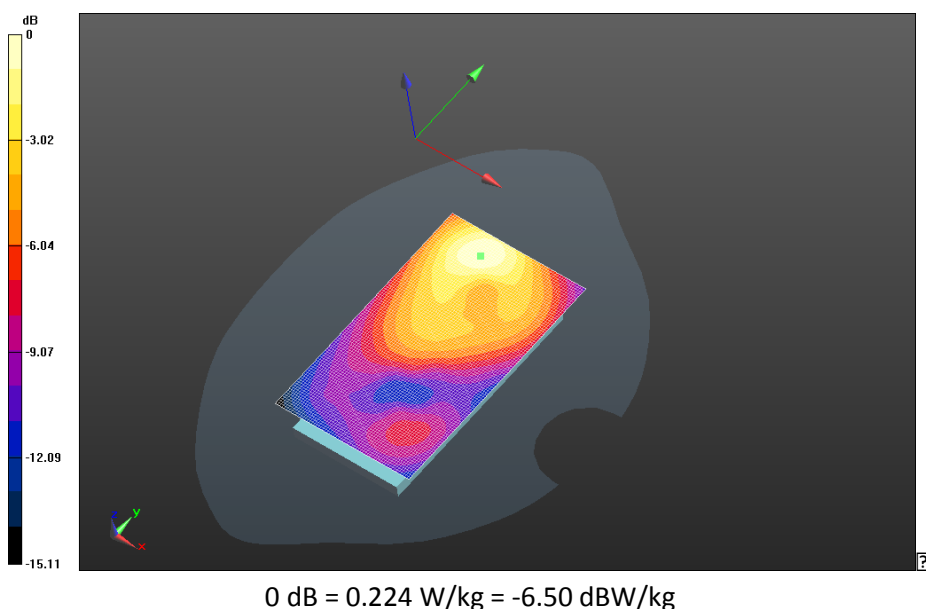
Body Worn MSL - GPRS 1900/Holster Device Back -

GSM1900_chan661_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.347 V/m; **Power Drift = 0.039 dB**

Fast SAR: SAR(1g) = 0.178 W/kg; SAR(10g) = 0.104 W/kg

Maximum value of SAR (interpolated) = 0.217 W/kg



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UMTS Band II

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Date: 7/5/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE967

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; $\sigma = 1.549$ S/m; $\epsilon_r = 51.206$; $\rho = 1.000$ 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 52.8.6(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 = 9.604 V/m; **Power Drift = -0.053 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:

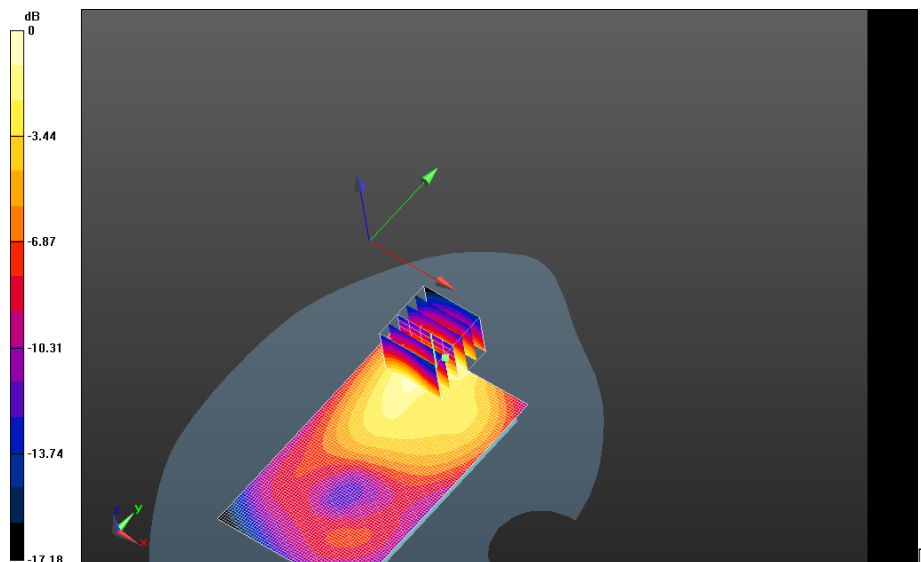
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.604 V/m; **Power Drift = -0.053 dB**

Averaged SAR: SAR(1g) = 0.421 W/kg; SAR(10g) = 0.249 W/kg

Maximum value of SAR (interpolated) = 0.665 W/kg

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0 dB = 0.492 W/kg = -3.08 dBW/kg

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

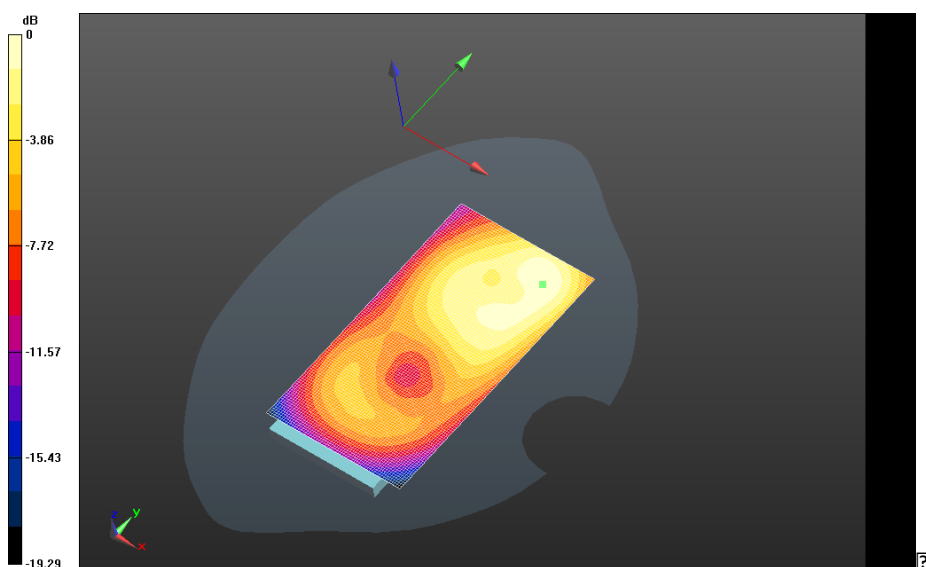
Body Worn MSL - UMTS II/15mm Device Front -

UMTS_II_chan9400_amb_temp_22.8C_liq_temp_22.3C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.123 V/m; **Power Drift = -0.027 dB**

Fast SAR: SAR(1g) = 0.271 W/kg; SAR(10g) = 0.160 W/kg

Maximum value of SAR (interpolated) = 0.331 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

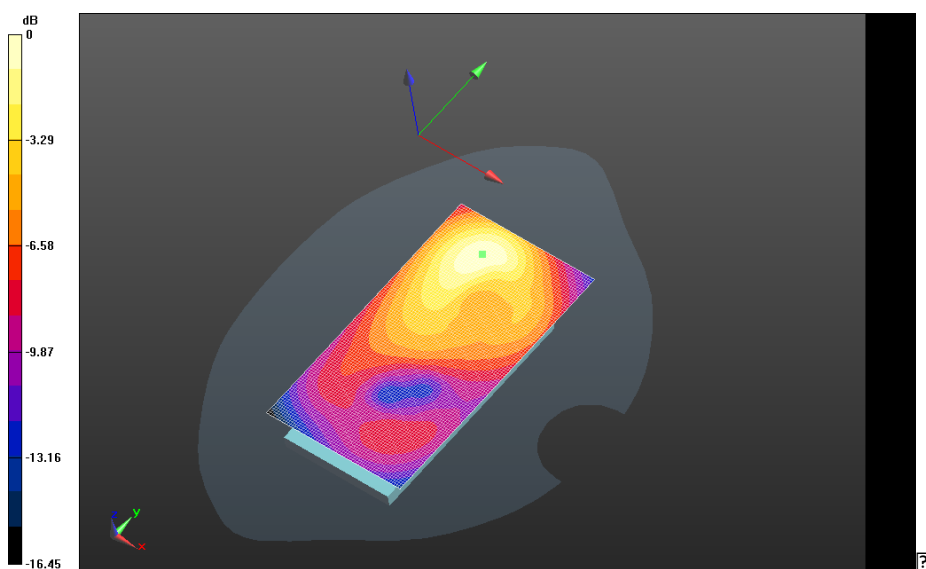
Body Worn MSL - UMTS II/Holster Device Back -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_22.4C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.648 V/m; **Power Drift = -0.153 dB**

Fast SAR: SAR(1g) = 0.253 W/kg; SAR(10g) = 0.147 W/kg

Maximum value of SAR (interpolated) = 0.314 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg

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LTE 2

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Date: 7/9/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE9A7

Configuration: Body Worn MSL - LTE Band 2

Communication System: LTE 2; Communication System Band: LTE Band 2; Frequency: 1860 MHz

Medium Parameters used: $f=1860$ MHz; $\sigma = 1.502$ S/m; $\epsilon_r = 51.048$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Body Worn MSL - LTE Band 2/15mm Device Back -

LTE_Band_2_chan18700_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 = 8.074 V/m; **Power Drift = 0.019 dB**

Body Worn MSL - LTE Band 2/15mm Device Back -

LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Zoom Scan

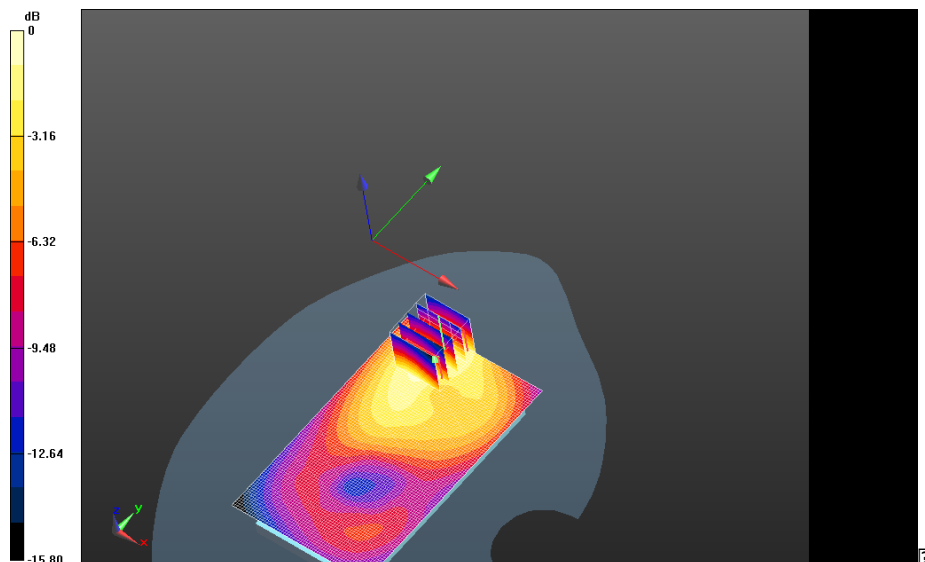
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.074 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.253 W/kg

Maximum value of SAR (interpolated) = 0.661 W/kg

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0 dB = 0.494 W/kg = -3.06 dBW/kg

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Body Worn MSL - LTE Band 2/15mm Device Front -

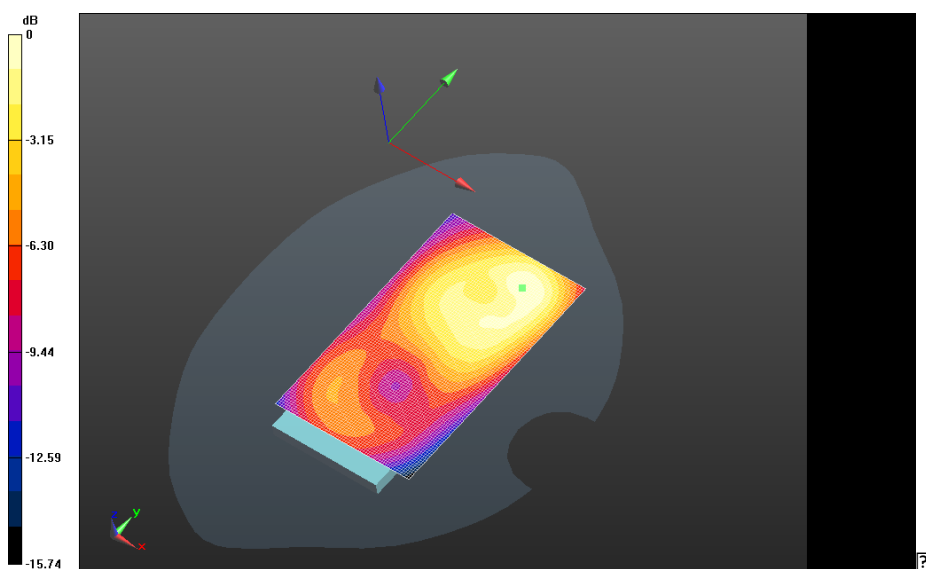
LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan

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

Reference Value = 7.385 V/m; **Power Drift = 0.072 dB**

Fast SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.205 W/kg

Maximum value of SAR (interpolated) = 0.430 W/kg



0 dB = 0.494 W/kg = -3.06 dBW/kg

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Body Worn MSL - LTE Band 2/Holster Device Back -

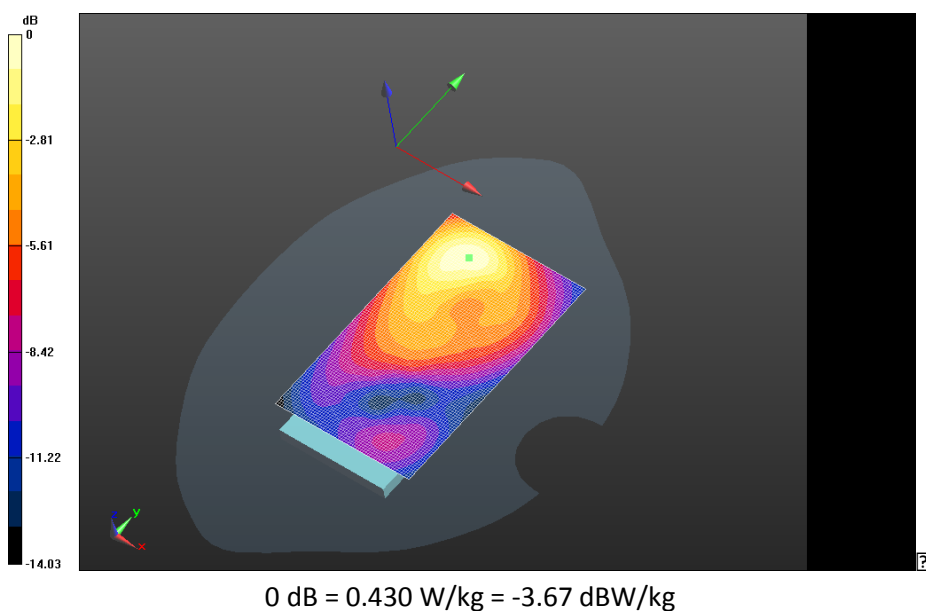
LTE_Band_2_chan18700_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan

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

Reference Value = 8.156 V/m; **Power Drift = -0.046 dB**

Fast SAR: SAR(1g) = 0.322 W/kg; SAR(10g) = 0.188 W/kg

Maximum value of SAR (interpolated) = 0.394 W/kg



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802.11b

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Date: 10/10/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF7DAD

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; $\sigma = 2.006$ S/m; $\epsilon_r = 50.271$; $\rho = 1.000$ 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 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

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

802.11b_chan6_amb_temp_23.5C_liq_temp_22.2C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.115 W/kg

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

802.11b_chan6_amb_temp_23.5C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

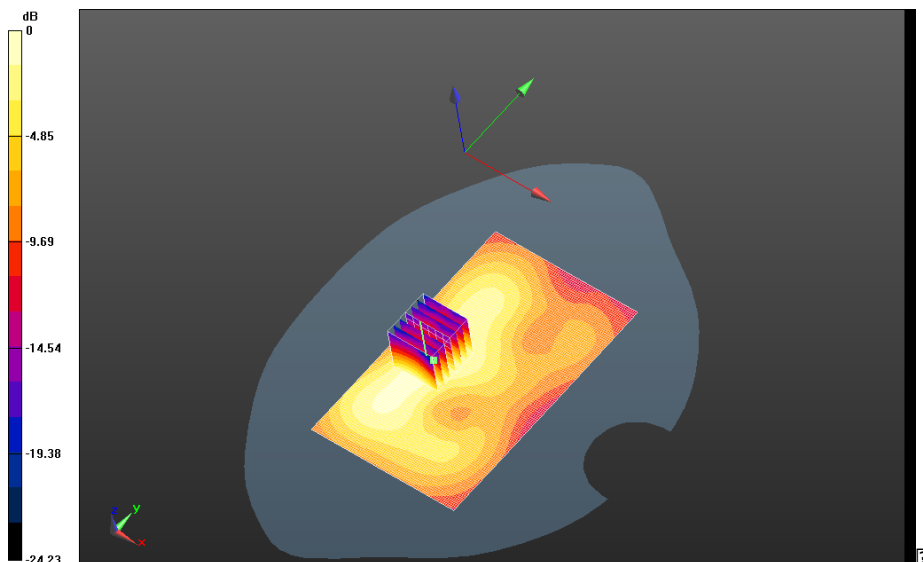
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 7.731 V/m; **Power Drift = -0.023 dB**

Averaged SAR: SAR(1g) = 0.0918 W/kg; SAR(10g) = 0.0489 W/kg

Maximum value of SAR (interpolated) = 0.183 W/kg

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0 dB = 0.117 W/kg = -9.32 dBW/kg

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

802.11b_chan6_amb_temp_23.5C_liq_temp_22.2C/Area Scan (81x141x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0406 W/kg

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

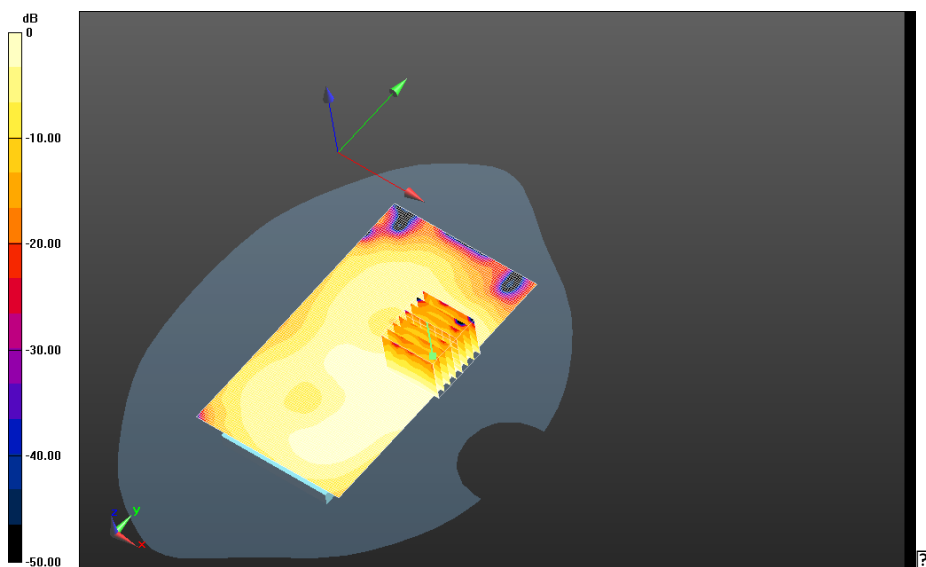
802.11b_chan6_amb_temp_23.5C_liq_temp_22.2C/Zoom Scan (36x36x36)/Cube 0:

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

Reference Value = 4.658 V/m; **Power Drift = -0.0071 dB**

Averaged SAR: SAR(1g) = 0.0349 W/kg; SAR(10g) = 0.0198 W/kg

Maximum value of SAR (interpolated) = 0.0662 W/kg



0 dB = 0.117 W/kg = -9.32 dBW/kg

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Body Worn MSL - 802.11b/Holster Device Back -

802.11b_chan6_amb_temp_23.6C_liq_temp_22.2C/Area Scan (81x131x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0601 W/kg

Body Worn MSL - 802.11b/Holster Device Back -

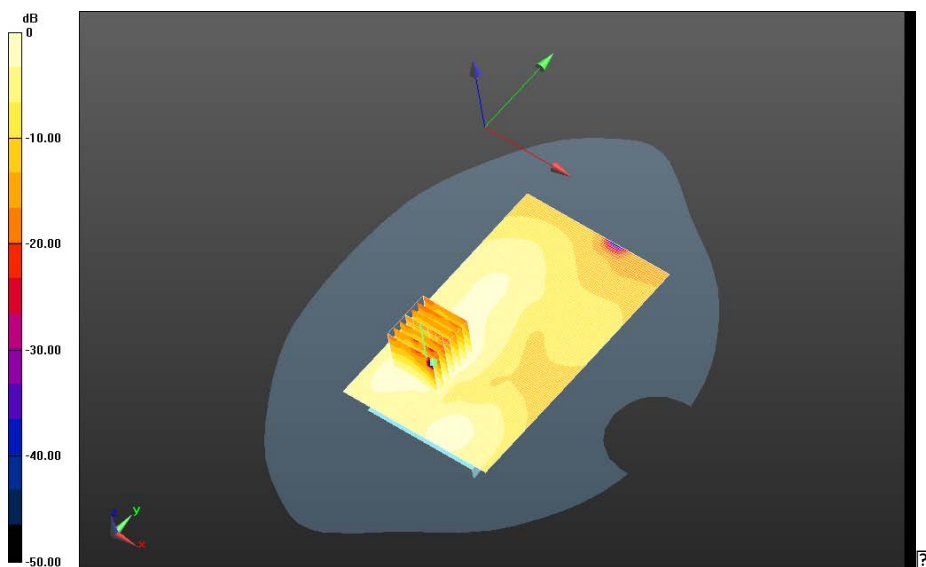
802.11b_chan6_amb_temp_23.6C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 5.501 V/m; **Power Drift = 0.040 dB**

Averaged SAR: SAR(1g) = 0.0481 W/kg; SAR(10g) = 0.0270 W/kg

Maximum value of SAR (interpolated) = 0.0922 W/kg



0 dB = 0.0426 W/kg = -13.71 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/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 52.8.6(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:

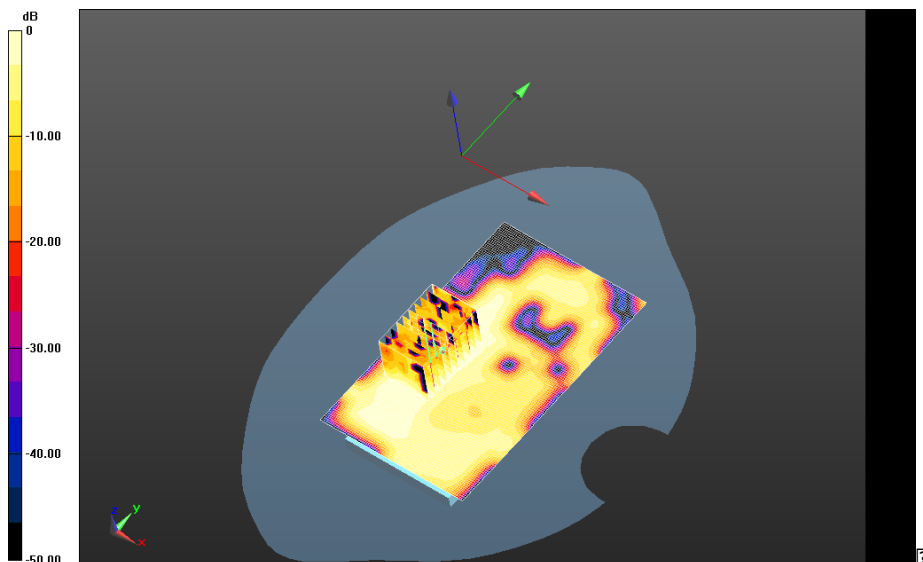
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

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

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Date: 10/11/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF7DAD

Configuration: Body Worn MSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz

Medium Parameters used: $f=5180$ MHz; $\sigma = 5.451$ S/m; $\epsilon_r = 47.075$; $\rho = 1.000$ g/cm³

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 (91x151x1):

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

Maximum value of SAR (interpolated) = 0.609 W/kg

Body Worn MSL - 802.11a 5200 MHz/15mm Device Back -

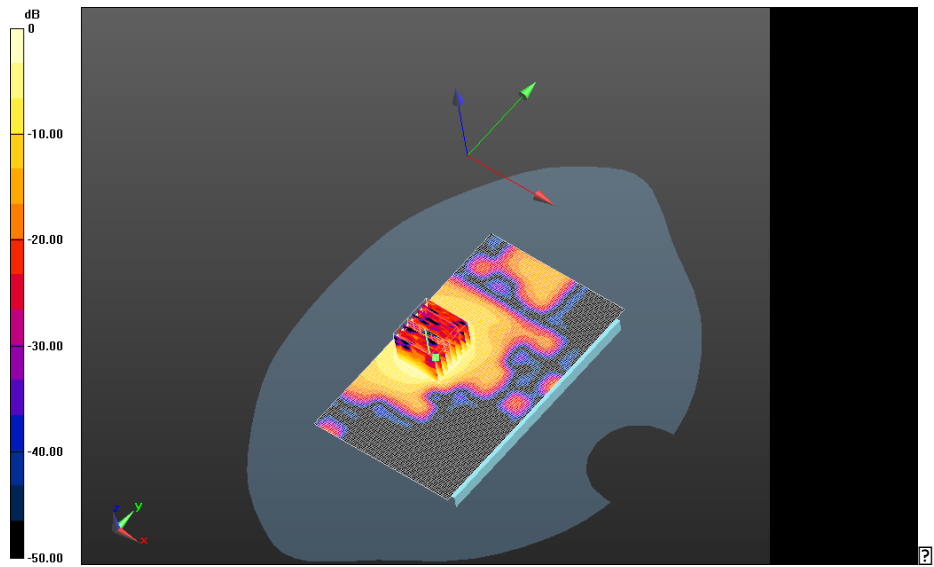
802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (36x36x61)/Cube 0:

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

Reference Value = 1.152 V/m; **Power Drift = 0.561 dB**

Averaged SAR: SAR(1g) = 0.328 W/kg; SAR(10g) = 0.115 W/kg

Maximum value of SAR (interpolated) = 1.14 W/kg



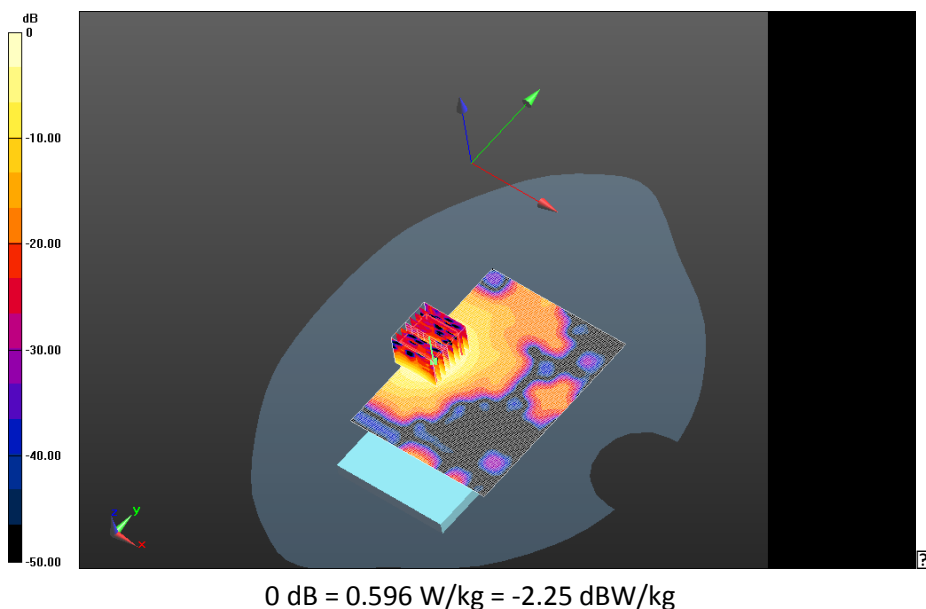
0 dB = 0.596 W/kg = -2.25 dBW/kg

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Body Worn MSL - 802.11a 5200 MHz/Holster Device Back -
802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (91x121x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.829 W/kg

Body Worn MSL - 802.11a 5200 MHz/Holster Device Back -
802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.898 V/m; **Power Drift = -0.106 dB**

Averaged SAR: SAR(1g) = 0.447 W/kg; SAR(10g) = 0.157 W/kg
Maximum value of SAR (interpolated) = 1.60 W/kg



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Date: 10/15/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF7DAD

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; $\sigma = 5.808$ S/m; $\epsilon_r = 48.773$; $\rho = 1.000$ g/cm³

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_23.7C_Liquid_Temp_21.7C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -

802.11a_chan104_upper_band1_Amb_Temp_23.7C_Liquid_Temp_21.7C/Zoom Scan

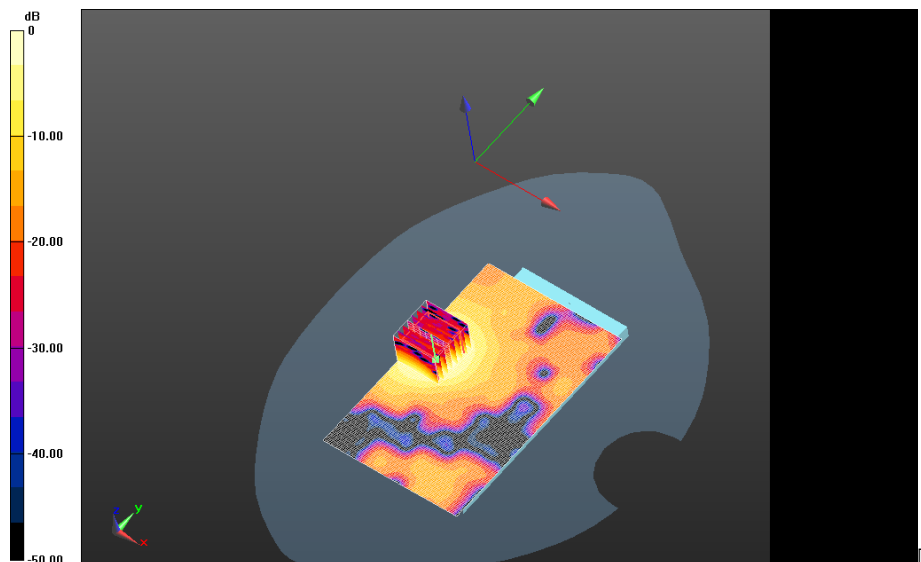
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.471 V/m; **Power Drift = 0.084 dB**

Averaged SAR: SAR(1g) = 0.734 W/kg; SAR(10g) = 0.264 W/kg

Maximum value of SAR (interpolated) = 2.57 W/kg

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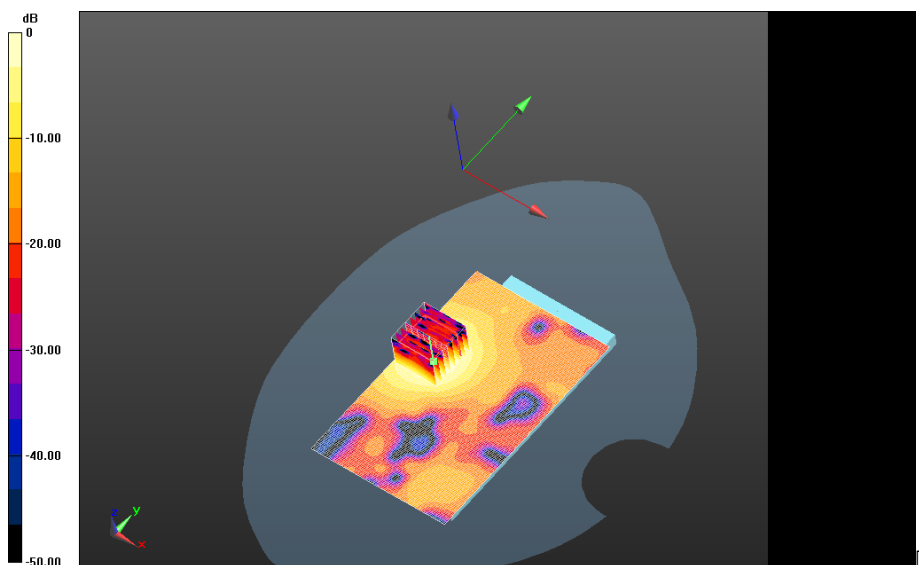
0 dB = 1.36 W/kg = 1.34 dBW/kg

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Body Worn MSL - 802.11a 5500 MHz/15mm Device Back 2nd-802.11a_chan104_upper_bandI_Amb_Temp_23.7C_Liquid_Temp_21.7C/Area Scan (91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.38 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back 2nd-802.11a_chan104_upper_bandI_Amb_Temp_23.7C_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 = 3.623 V/m; **Power Drift = -0.069 dB**

Averaged SAR: SAR(1g) = 0.733 W/kg; SAR(10g) = 0.268 W/kg
Maximum value of SAR (interpolated) = 2.61 W/kg



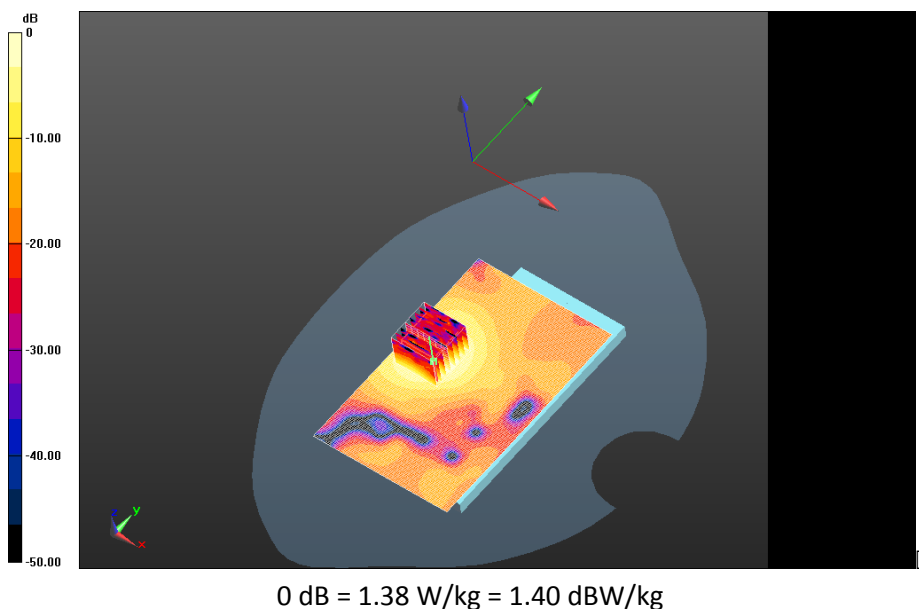
0 dB = 1.36 W/kg = 1.34 dBW/kg

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Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan116_upper_bandI_Amb_Temp_23.7C_Liquid_Temp_22.0C/Area Scan
(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan116_upper_bandI_Amb_Temp_23.7C_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 = 3.782 V/m; **Power Drift = 0.038 dB**

Averaged SAR: SAR(1g) = 0.658 W/kg; SAR(10g) = 0.238 W/kg
Maximum value of SAR (interpolated) = 2.30 W/kg

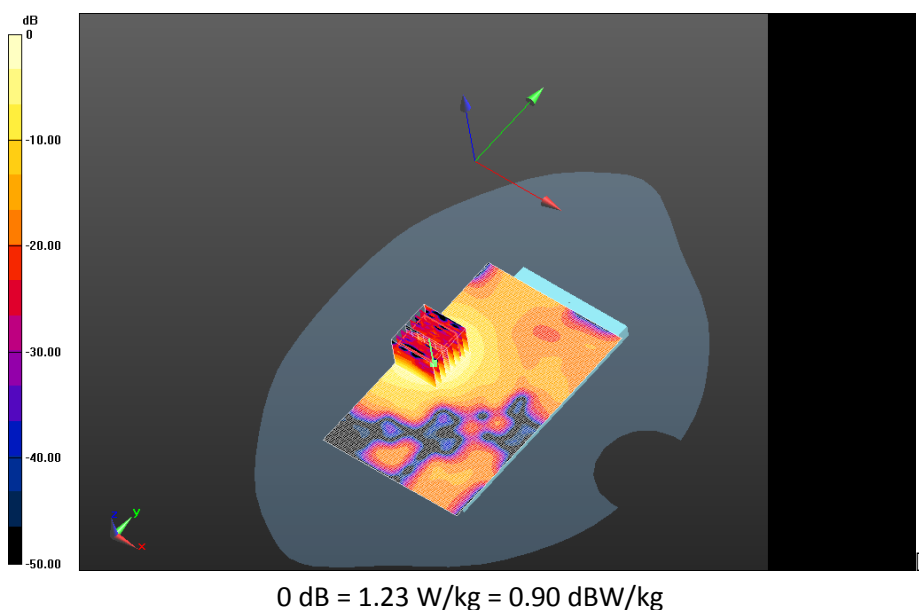


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Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan124_upper_band1_Amb_Temp_23.2C_Liquid_Temp_21.7C/Area Scan
(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan124_upper_band1_Amb_Temp_23.2C_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 = 14.621 V/m; **Power Drift = -0.051 dB**

Averaged SAR: SAR(1g) = 0.618 W/kg; SAR(10g) = 0.221 W/kg
Maximum value of SAR (interpolated) = 2.34 W/kg

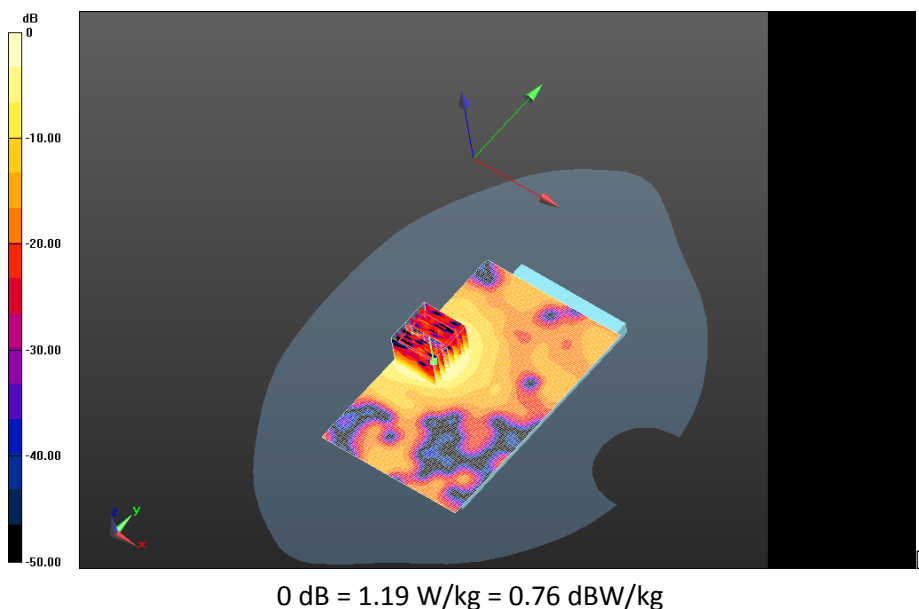


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Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan136_upper_bandI_Amb_Temp_23.2C_Liquid_Temp_22.0C/Area Scan
(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.00 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Back -
802.11a_chan136_upper_bandI_Amb_Temp_23.2C_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 = 3.117 V/m; **Power Drift = 0.493 dB**

Averaged SAR: SAR(1g) = 0.501 W/kg; SAR(10g) = 0.176 W/kg
Maximum value of SAR (interpolated) = 1.81 W/kg

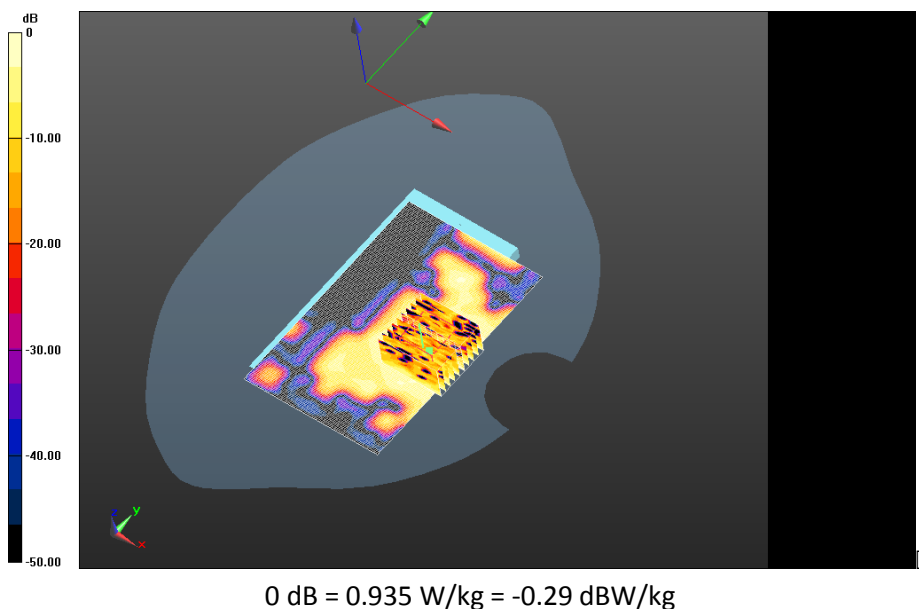


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Body Worn MSL - 802.11a 5500 MHz/15mm Device Front -
802.11a_chan104_upper_bandl_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan
(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0798 W/kg

Body Worn MSL - 802.11a 5500 MHz/15mm Device Front -
802.11a_chan104_upper_bandl_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 = 4.343 V/m; **Power Drift = 0.132 dB**

Averaged SAR: SAR(1g) = 0.0378 W/kg; SAR(10g) = 0.0160 W/kg
Maximum value of SAR (interpolated) = 0.184 W/kg

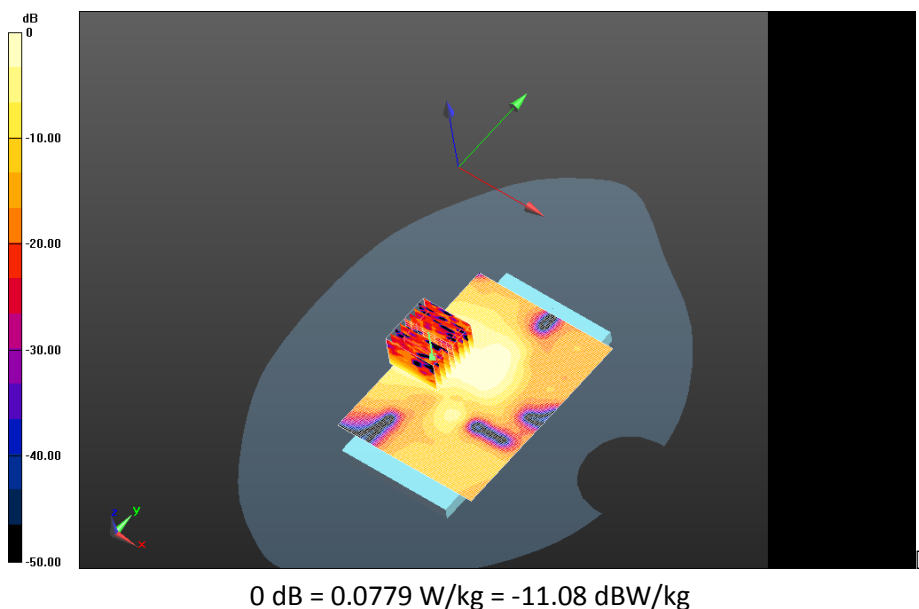


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Body Worn MSL - 802.11a 5500 MHz/Holster Device Back -
802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan
(91x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.545 W/kg

Body Worn MSL - 802.11a 5500 MHz/Holster Device Back -
802.11a_chan104_upper_bandI_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 = 10.410 V/m; **Power Drift = -0.153 dB**

Averaged SAR: SAR(1g) = 0.302 W/kg; SAR(10g) = 0.121 W/kg
Maximum value of SAR (interpolated) = 1.01 W/kg



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Date: 10/11/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFF7DAD

Configuration: Body Worn MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5765 MHz

Medium Parameters used: $f=5765$ MHz; $\sigma = 6.307$ S/m; $\epsilon_r = 46.961$; $\rho = 1.000$ g/cm³

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_23.6C_Liquid_Temp_21.7C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.684 W/kg

Body Worn MSL - 802.11a 5800 MHz/15mm Device Back -

802.11a_chan153_upper_bandII_Amb_Temp_23.6C_Liquid_Temp_21.7C/Zoom Scan

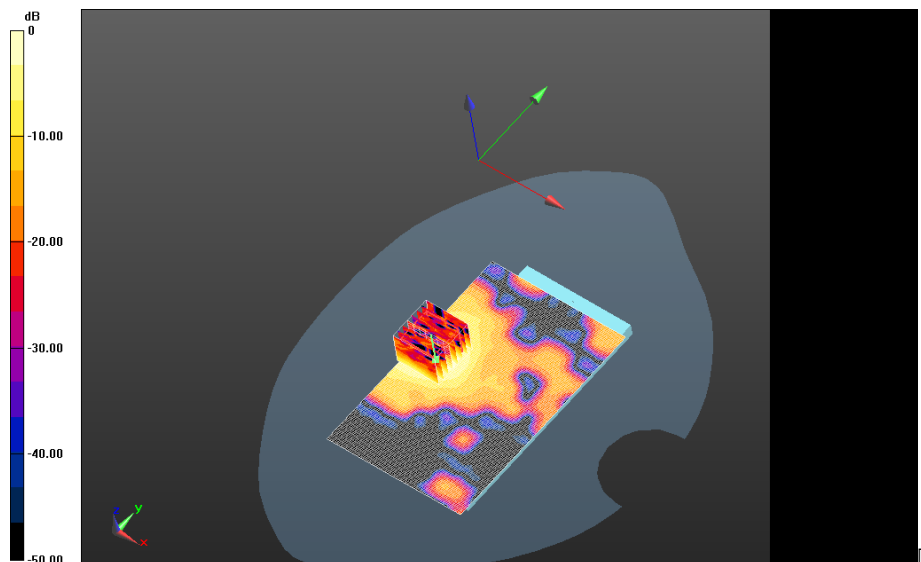
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.990 V/m; **Power Drift = -0.147 dB**

Averaged SAR: SAR(1g) = 0.353 W/kg; SAR(10g) = 0.125 W/kg

Maximum value of SAR (interpolated) = 1.28 W/kg

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0 dB = 0.658 W/kg = -1.82 dBW/kg

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Date: 10/16/2013

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FF7DAD

Configuration: Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz

Medium Parameters used: $f=5520$ MHz; $\sigma = 5.808$ S/m; $\epsilon_r = 48.773$; $\rho = 1.000$ g/cm³

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 Lower power level in simultaneous transmission mode/15mm Device Back -

802.11a_chan104_upper_bandI_Amb_Temp_23.3C_Liquid_Temp_22.0C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.841 W/kg

Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

802.11a_chan104_upper_bandI_Amb_Temp_23.3C_Liquid_Temp_22.0C/Zoom Scan

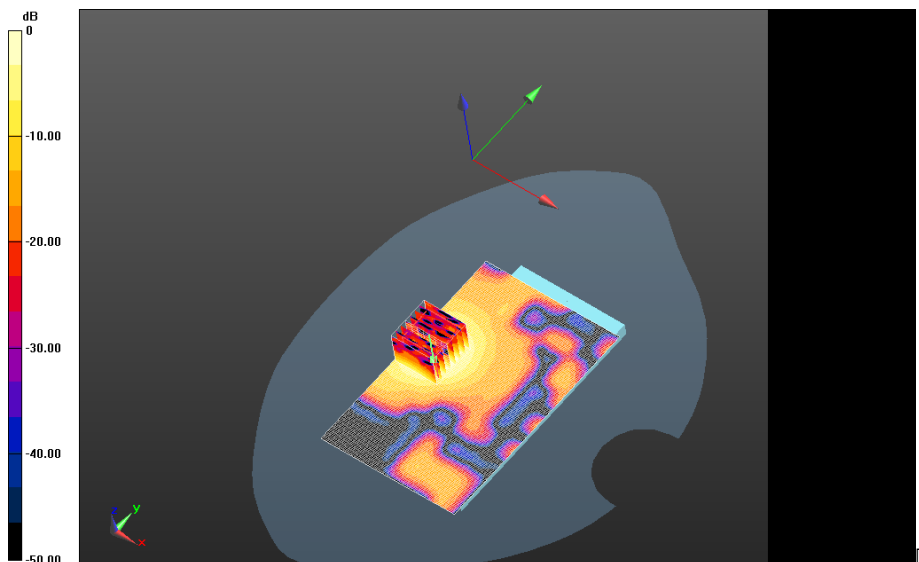
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.783 V/m; **Power Drift = 0.019 dB**

Averaged SAR: SAR(1g) = 0.449 W/kg; SAR(10g) = 0.161 W/kg

Maximum value of SAR (interpolated) = 1.62 W/kg

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0 dB = 0.832 W/kg = -0.80 dBW/kg

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Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

802.11a_chan116_upper_bandI_Amb_Temp_23.3C_Liquid_Temp_22.0C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.738 W/kg

Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

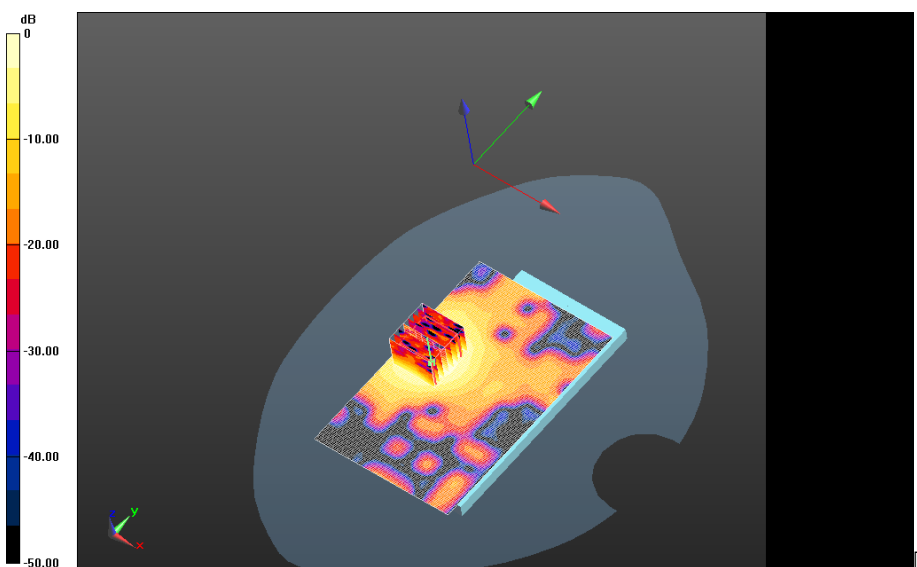
802.11a_chan116_upper_bandI_Amb_Temp_23.3C_Liquid_Temp_22.0C/Zoom Scan

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

Reference Value = 2.664 V/m; **Power Drift = 0.415 dB**

Averaged SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.141 W/kg

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



0 dB = 0.832 W/kg = -0.80 dBW/kg

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Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

802.11a_chan124_upper_bandI_Amb_Temp_23.2C_Liquid_Temp_21.7C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.612 W/kg

Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

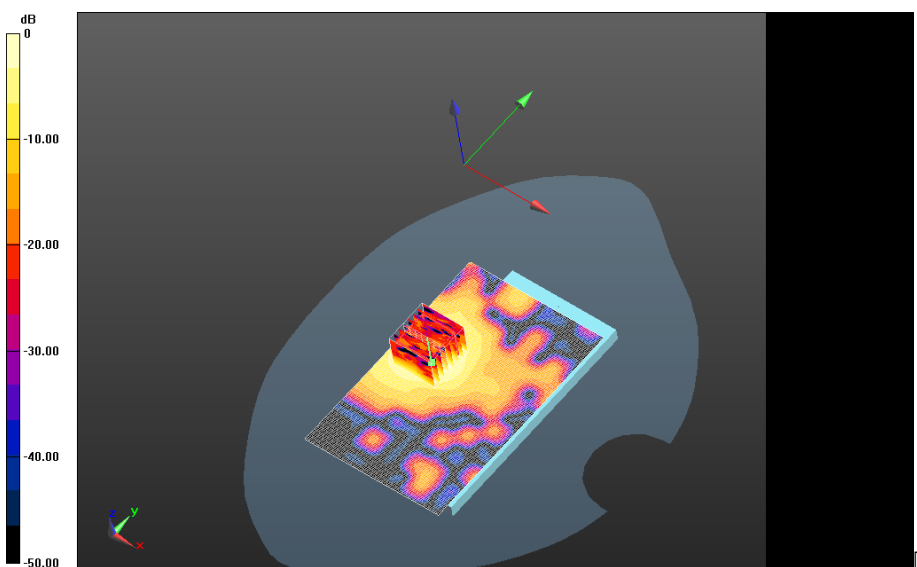
802.11a_chan124_upper_bandI_Amb_Temp_23.2C_Liquid_Temp_21.7C/Zoom Scan

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

Reference Value = 10.609 V/m; **Power Drift = 0.144 dB**

Averaged SAR: SAR(1g) = 0.324 W/kg; SAR(10g) = 0.114 W/kg

Maximum value of SAR (interpolated) = 1.19 W/kg



0 dB = 0.729 W/kg = -1.37 dBW/kg

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Author Data Andrew Becker	Dates of Test July 12 – October 16, 2013	Test Report No RTS-6046-1310-25	FCC ID: L6ARFV120LW	

Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

802.11a_chan136_upper_band1_Amb_Temp_23.2C_Liquid_Temp_22.0C/Area Scan

(91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.550 W/kg

Body Worn MSL - 802.11a 5500 MHz Lower power level in simultaneous transmission mode/15mm Device Back -

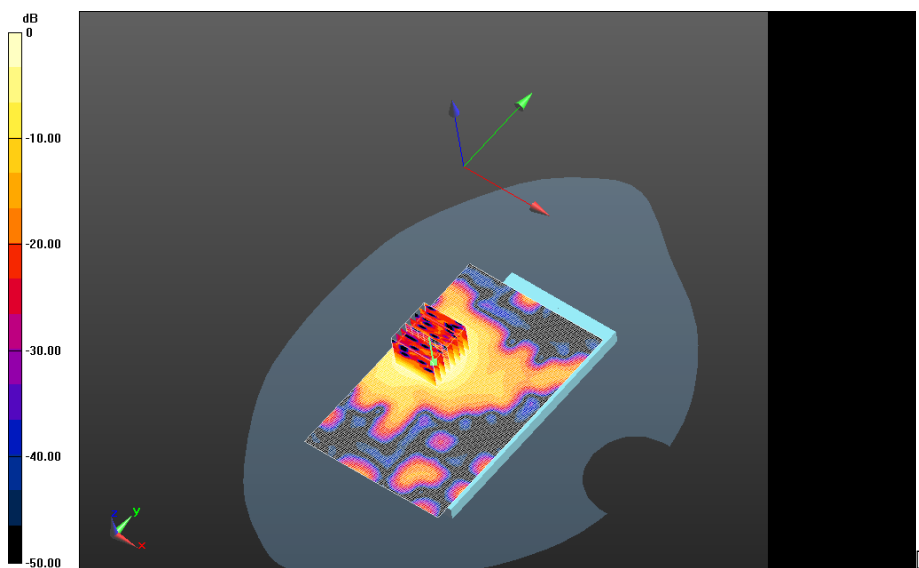
802.11a_chan136_upper_band1_Amb_Temp_23.2C_Liquid_Temp_22.0C/Zoom Scan

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

Reference Value = 10.341 V/m; **Power Drift = 0.026 dB**

Averaged SAR: SAR(1g) = 0.279 W/kg; SAR(10g) = 0.0987 W/kg

Maximum value of SAR (interpolated) = 1.01 W/kg



0 dB = 0.615 W/kg = -2.11 dBW/kg