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APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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GSM/GPRS 850

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Date: 7/15/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - GPRS 850

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

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.970$ S/m; $\epsilon_r = 53.234$; $\rho = 1.000$ g/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_chan190_amb_temp_23.3C_liq_temp_22.2C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

GPRS850_chan190_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (21x21x36)/Cube 0:

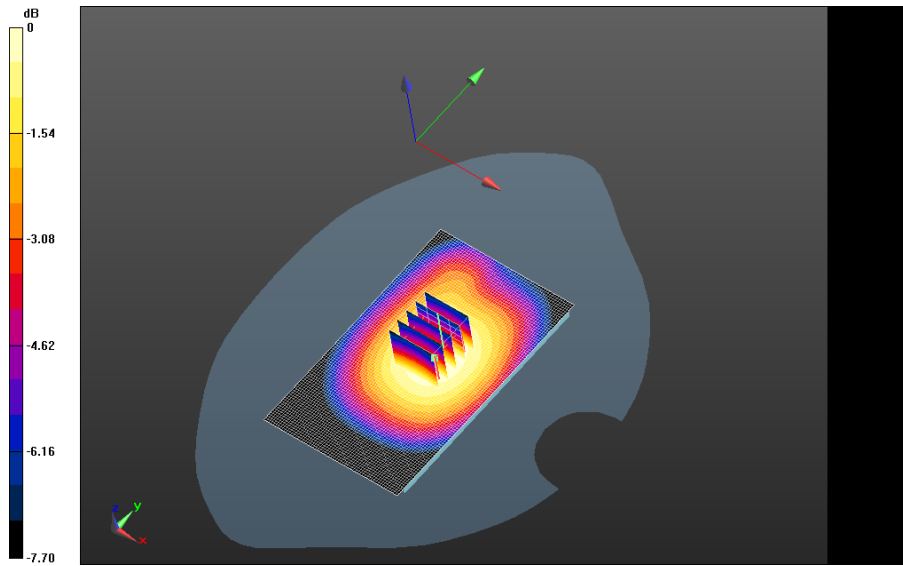
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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

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Body Worn MSL - GPRS 850/15mm Device Front -

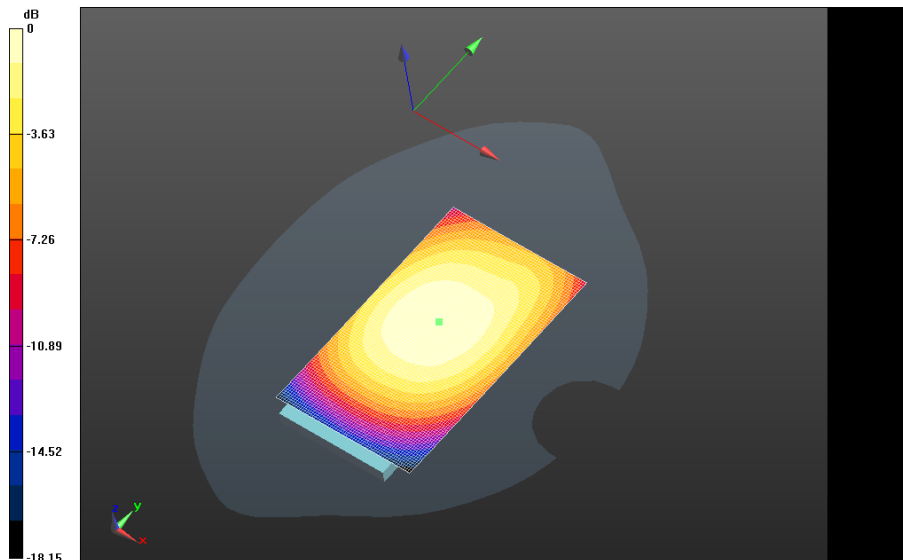
GPRS850_chan190_amb_temp_23.4C_liq_temp_22.3C/Area Scan (61x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

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

Fast SAR: SAR(1g) = 0.476 W/kg; SAR(10g) = 0.336 W/kg

Maximum value of SAR (interpolated) = 0.537 W/kg



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

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Body Worn MSL - GPRS 850/Holster Device Back -

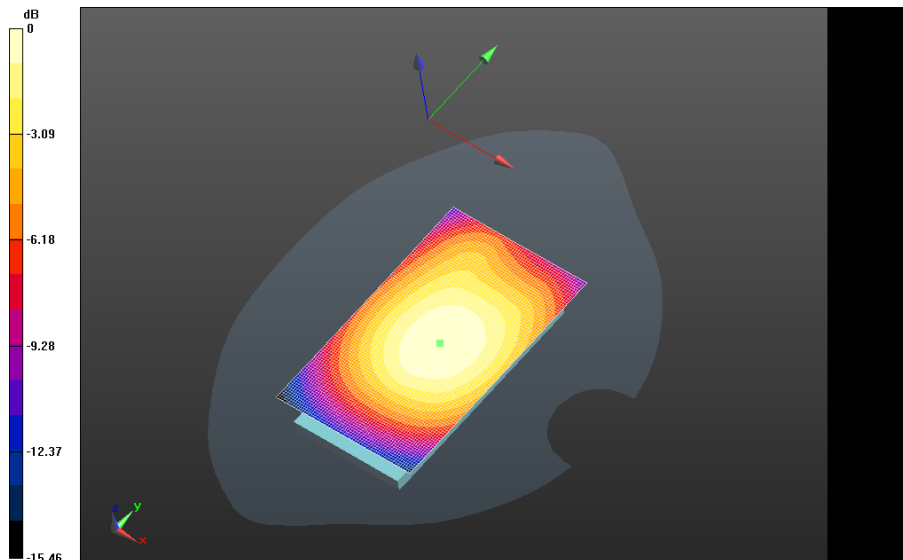
GPRS850_chan190_amb_temp_23.0C_liq_temp_22.0C/Area Scan (61x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

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

Fast SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.215 W/kg

Maximum value of SAR (interpolated) = 0.345 W/kg



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

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UMTS Band V

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Date: 7/15/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - UMTS band V

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

Frequency: 836.4 MHz

Medium Parameters used: $f=836.4$ MHz; $\sigma = 0.970$ S/m; $\epsilon_r = 53.238$; $\rho = 1.000$ g/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 = 22.716 V/m; **Power Drift = 0.085 dB**

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

V_chan4182_amb_temp_23.1C_liq_temp_21.6C/Zoom Scan (21x21x36)/Cube 0: Interpolated

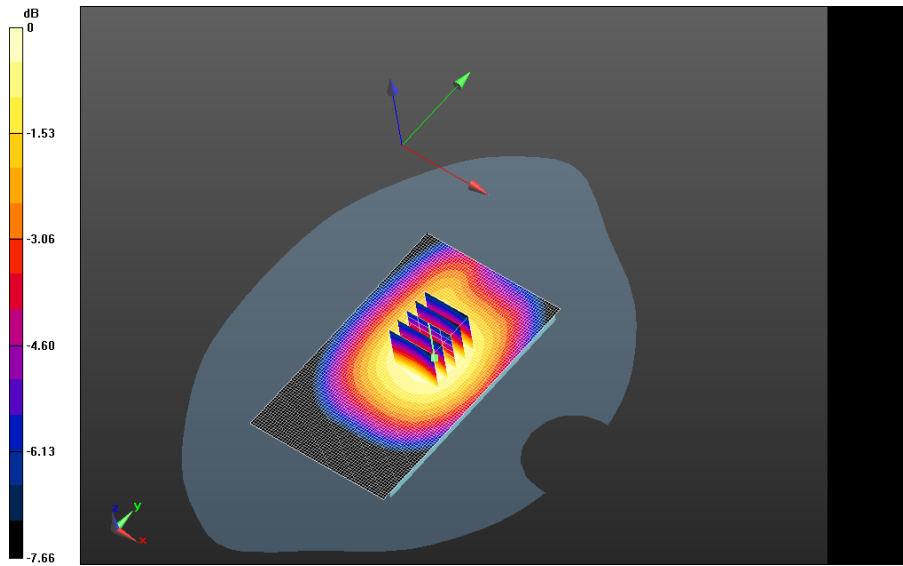
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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

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

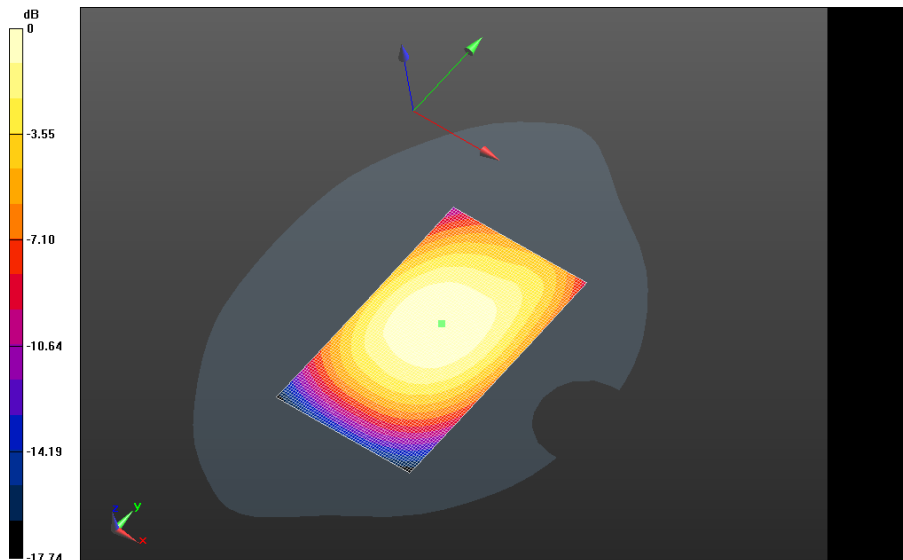
V_chan4182_amb_temp_23.1C_liq_temp_21.4C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

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

Fast SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.303 W/kg

Maximum value of SAR (interpolated) = 0.482 W/kg



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

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

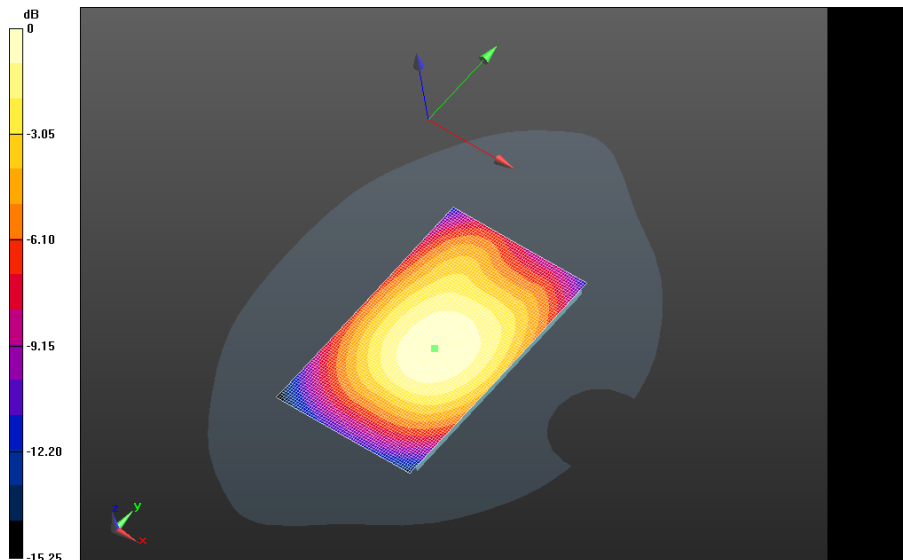
V_chan4182_amb_temp_23.1C_liq_temp_21.5C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

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

Fast SAR: SAR(1g) = 0.364 W/kg; SAR(10g) = 0.255 W/kg

Maximum value of SAR (interpolated) = 0.412 W/kg



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

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LTE Band 5

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Date: 7/15/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - LTE Band 5

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

Medium Parameters used: $f=829$ MHz; $\sigma = 0.963$ S/m; $\epsilon_r = 53.325$; $\rho = 1.000$ g/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 = 20.918 V/m; **Power Drift = 0.057 dB**

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

LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.2C_liq_temp_22.3C/Zoom Scan

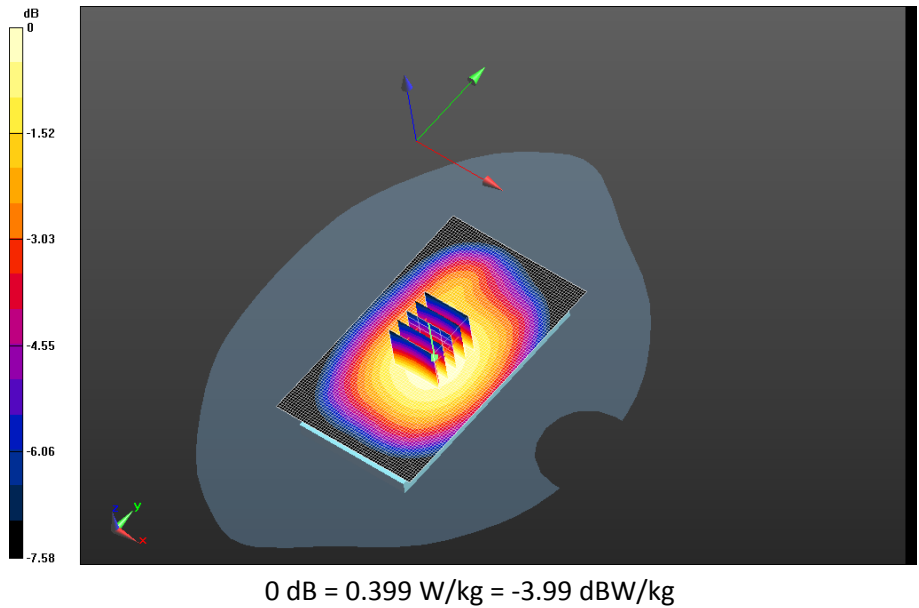
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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

LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.3C_liq_temp_22.3C/Area Scan

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

Reference Value = 21.337 V/m; **Power Drift = 0.040 dB**

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

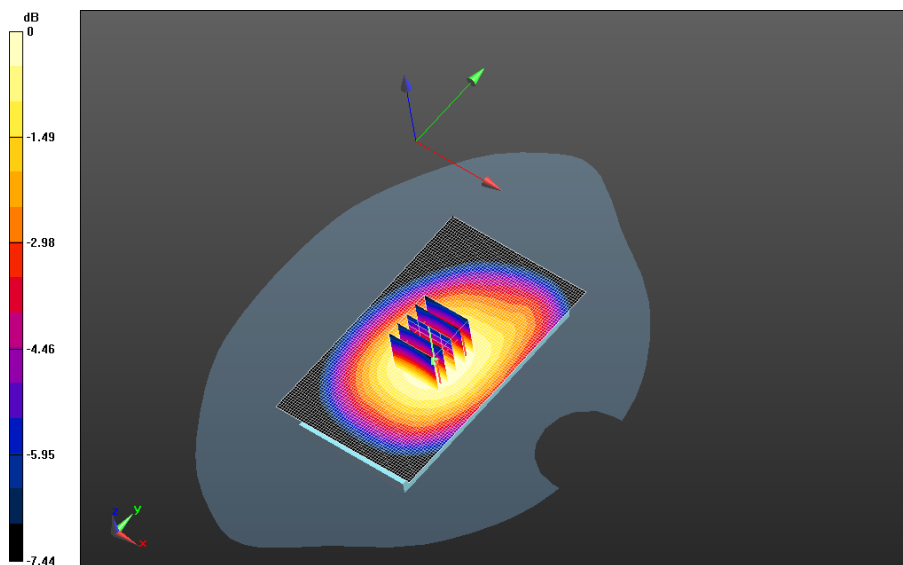
LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.3C_liq_temp_22.3C/Zoom Scan

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

Reference Value = 21.337 V/m; **Power Drift = 0.040 dB**

Averaged SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.292 W/kg

Maximum value of SAR (interpolated) = 0.473 W/kg

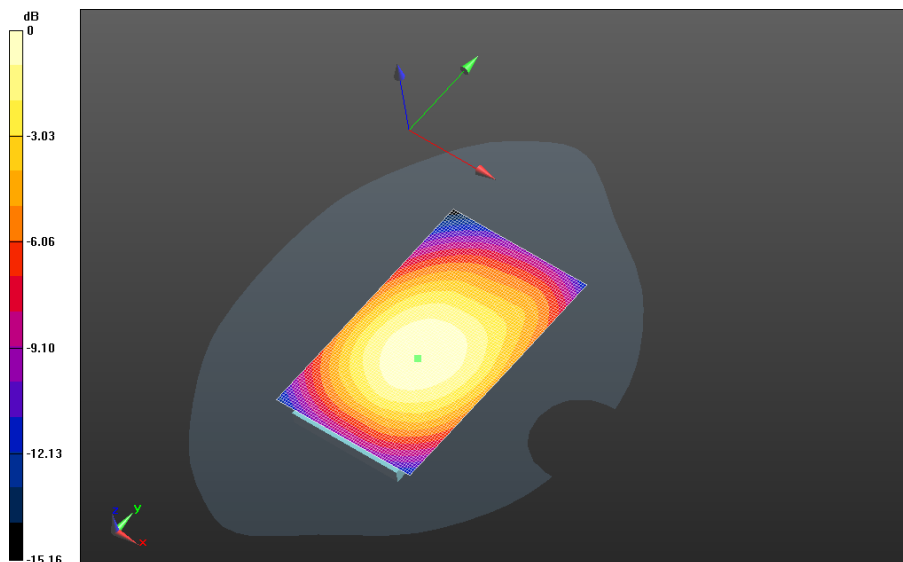


0 dB = 0.399 W/kg = -3.99 dBW/kg

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Body Worn MSL - LTE Band 5/Holster Device Front -
LTE_Band_5_chan20450_RB1_Off49_amb_temp_23.4C_liq_temp_22.3C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.088 V/m; **Power Drift = -0.049 dB**

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



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

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LTE Band 4

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Date: 7/11/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - LTE Band 4

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1745 MHz

Medium Parameters used: $f=1745$ MHz; $\sigma = 1.516$ S/m; $\epsilon_r = 50.838$; $\rho = 1.000$ g/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_chan20300_RB1_Off50_amb_temp_23.4C_liq_temp_22.2C/Area Scan

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

Maximum value of SAR (interpolated) = 0.561 W/kg

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

LTE_Band_4_chan20300_RB1_Off50_amb_temp_23.4C_liq_temp_22.2C/Zoom Scan

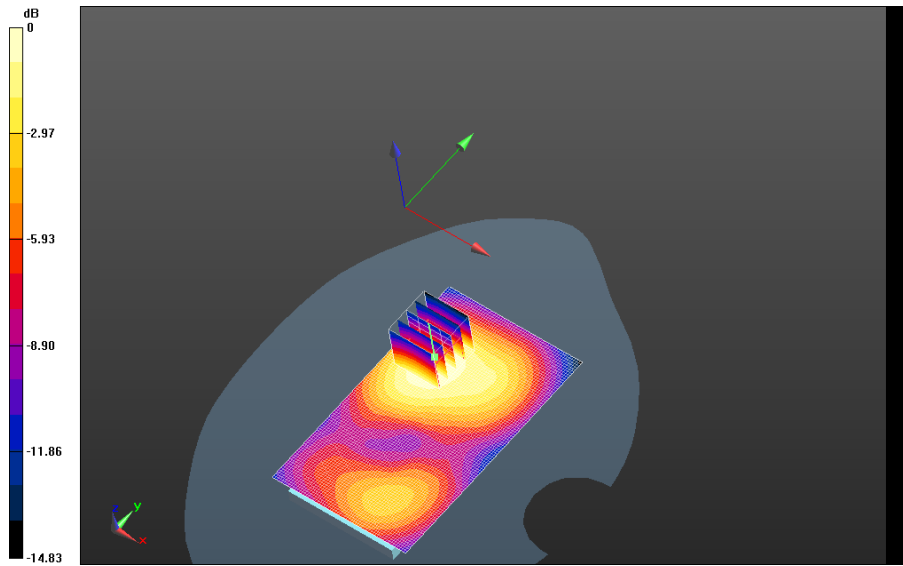
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.374 V/m; **Power Drift = -0.169 dB**

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

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

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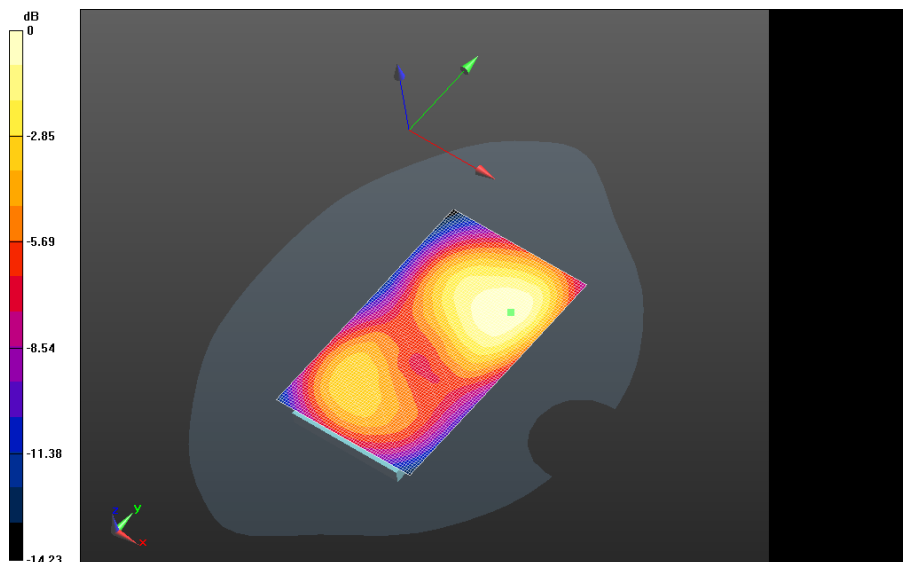


0 dB = 0.561 W/kg = -2.51 dBW/kg

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Body Worn MSL - LTE Band 4/15mm Device Front -
LTE_Band_4_chan20300_RB1_Off50_amb_temp_23.8C_liq_temp_22.8C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.115 V/m; **Power Drift = 0.033 dB**

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



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

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Body Worn MSL - LTE Band 4/Holster Device Back -

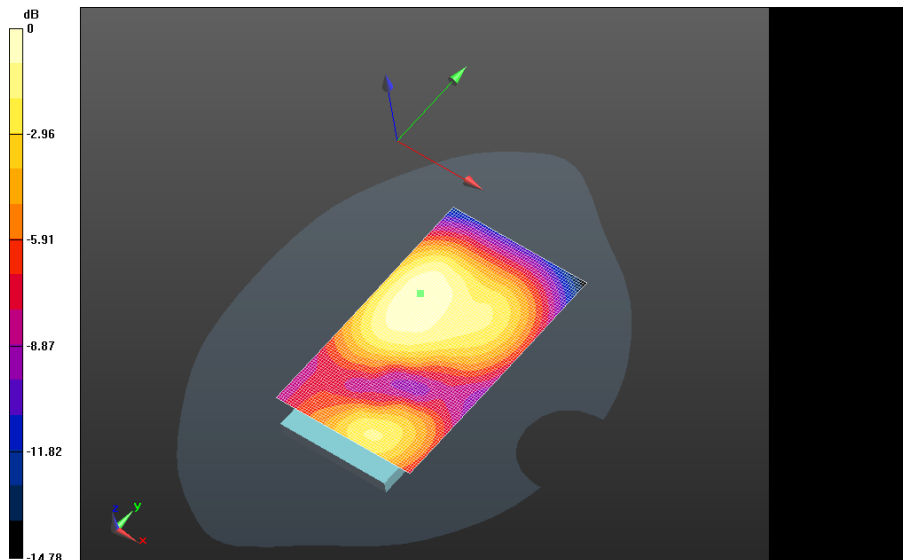
LTE_Band_4_chan20300_RB1_Off50_amb_temp_23.8C_liq_temp_22.2C/Area Scan

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

Reference Value = 9.551 V/m; **Power Drift = -0.038 dB**

Fast SAR: SAR(1g) = 0.290 W/kg; SAR(10g) = 0.184 W/kg

Maximum value of SAR (interpolated) = 0.343 W/kg



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

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UMTS Band IV

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Date: 7/11/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - UMTS IV

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

Frequency: 1732.6 MHz

Medium Parameters used: $f=1732.6$ MHz; $\sigma = 1.499$ S/m; $\epsilon_r = 50.903$; $\rho = 1.000$ g/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_22.9C_liq_temp_22.1C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

UMTS_IV_chan1413_amb_temp_22.9C_liq_temp_22.1C/Zoom Scan (26x26x36)/Cube 0:

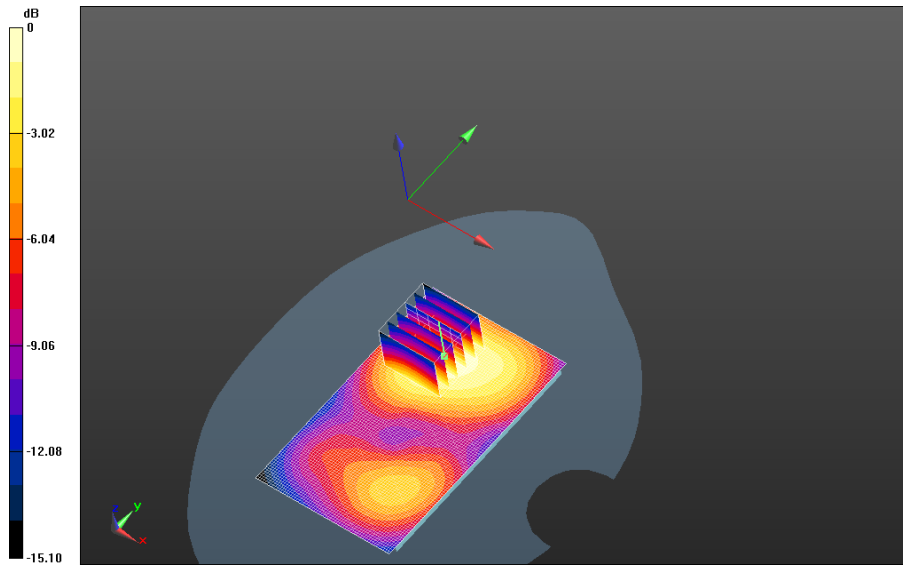
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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

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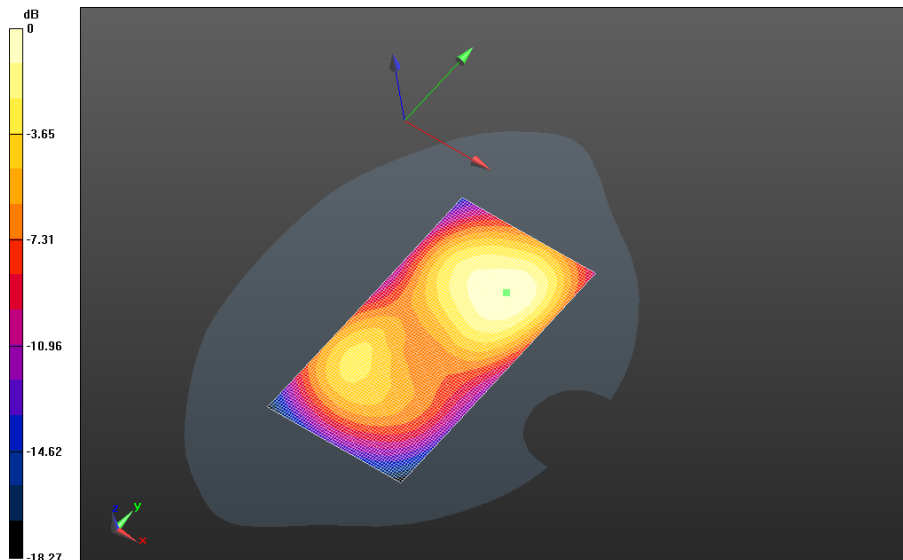
Body Worn MSL - UMTS IV/15mm Device Front -

UMTS_IV_chan1413_amb_temp_22.8C_liq_temp_22.1C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.018 V/m; **Power Drift = 0.015 dB**

Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.353 W/kg

Maximum value of SAR (interpolated) = 0.671 W/kg



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

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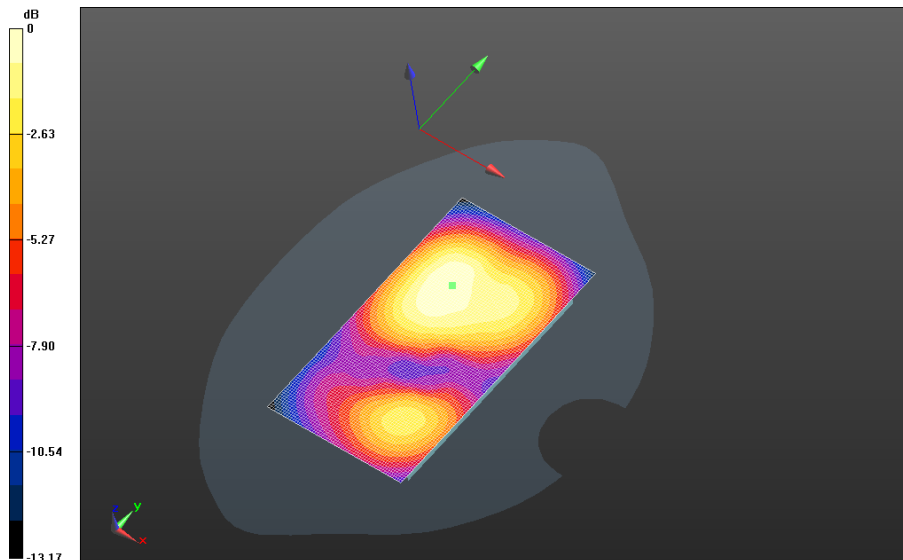
Body Worn MSL - UMTS IV/Holster Device Back -

UMTS_IV_chan1413_amb_temp_23.1C_liq_temp_22.1C/Area Scan (61x111x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.446 V/m; **Power Drift = 0.097 dB**

Fast SAR: SAR(1g) = 0.328 W/kg; SAR(10g) = 0.205 W/kg

Maximum value of SAR (interpolated) = 0.388 W/kg



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

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GSM/GPRS 1900

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/8/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - GPRS 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.524$ S/m; $\epsilon_r = 50.997$; $\rho = 1.000$ g/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_24.3C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

GSM1900_chan661_amb_temp_24.3C_liq_temp_22.7C/Zoom Scan (26x26x36)/Cube 0:

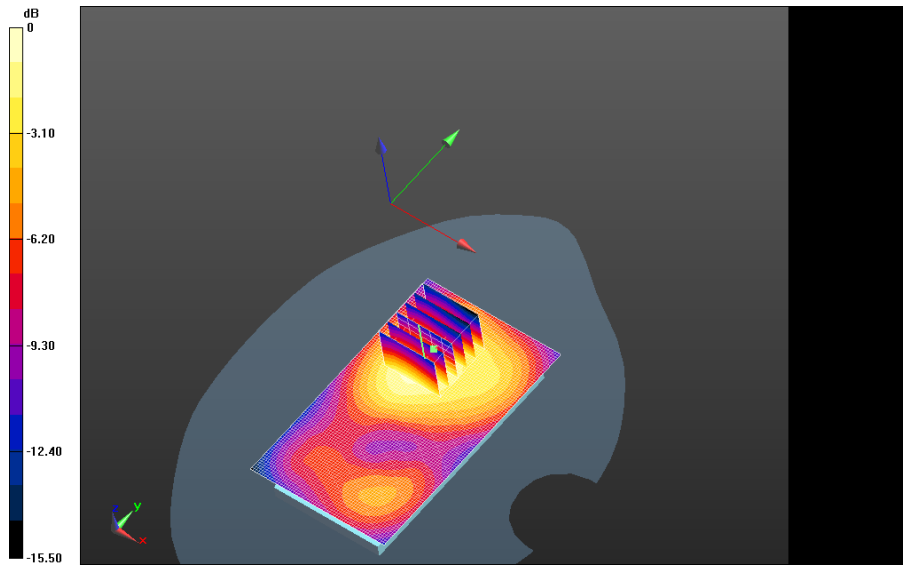
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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

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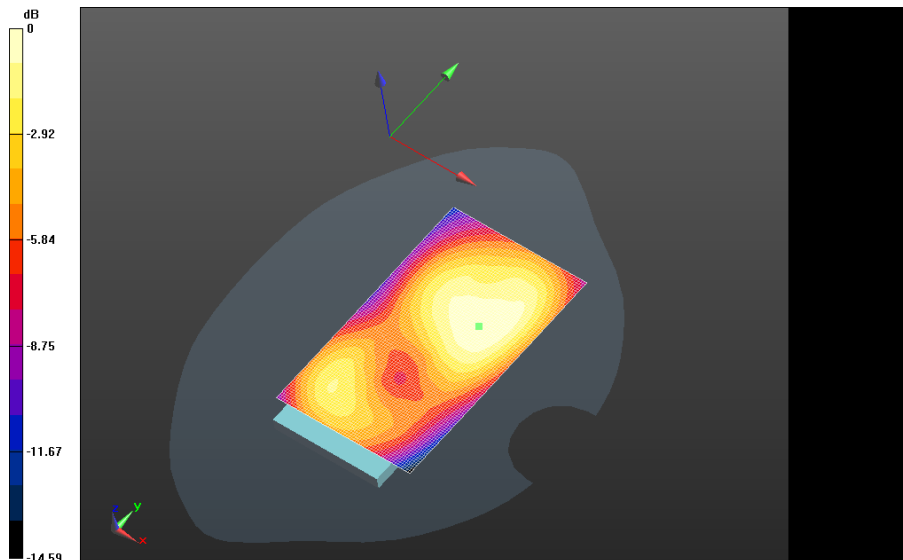
Body Worn MSL - GPRS 1900/15mm Device Front -

GSM1900_chan661_amb_temp_24.1C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.175 V/m; **Power Drift = 0.040 dB**

Fast SAR: SAR(1g) = 0.183 W/kg; SAR(10g) = 0.115 W/kg

Maximum value of SAR (interpolated) = 0.216 W/kg

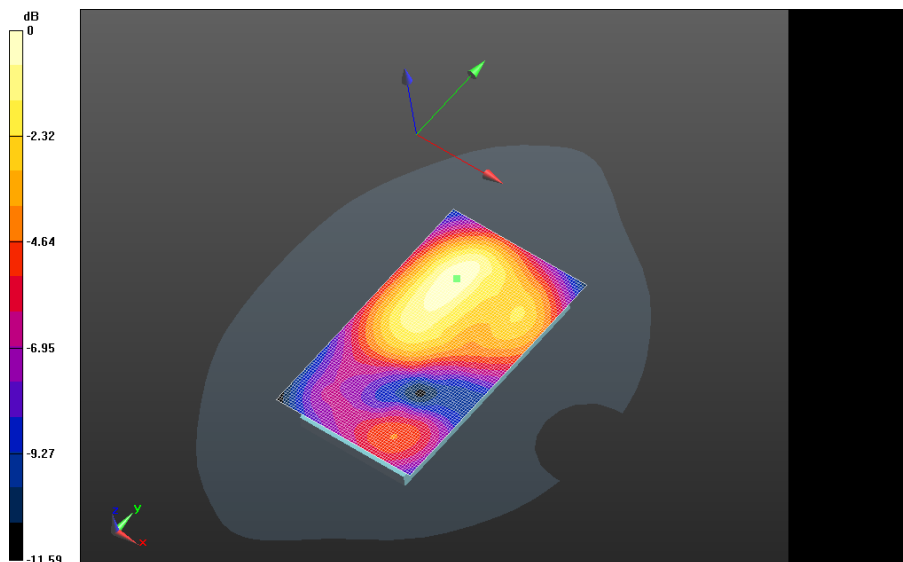


0 dB = 0.342 W/kg = -4.66 dBW/kg

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Body Worn MSL - GPRS 1900/Holster Device Back -
GSM1900_chan661_amb_temp_24.2C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.868 V/m; **Power Drift = 0.035 dB**

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



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

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UMTS Band II

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Date: 7/8/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - UMTS II

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.524$ S/m; $\epsilon_r = 50.997$; $\rho = 1.000$ g/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 = 10.537 V/m; **Power Drift = -0.00944 dB**

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

UMTS_II_chan9400_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0:

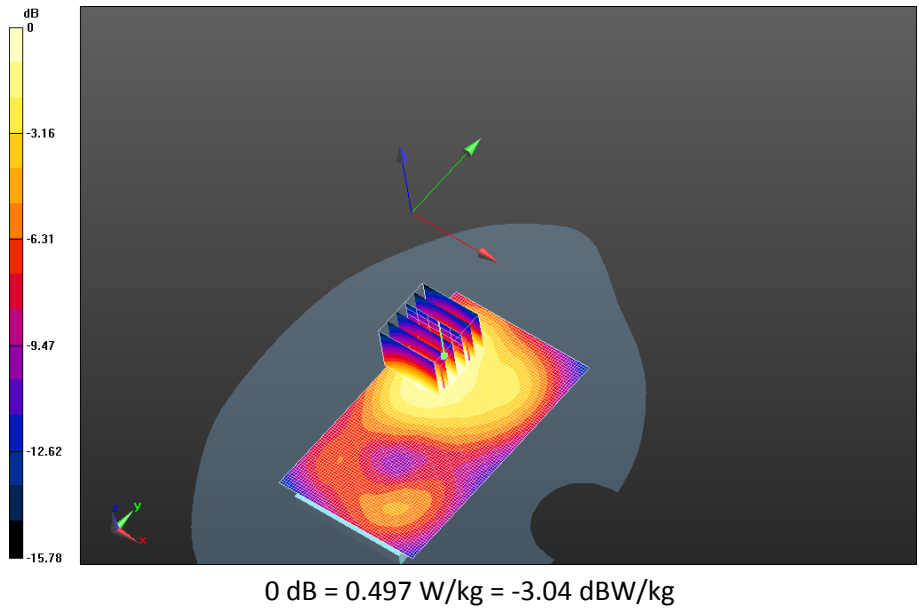
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

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

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

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

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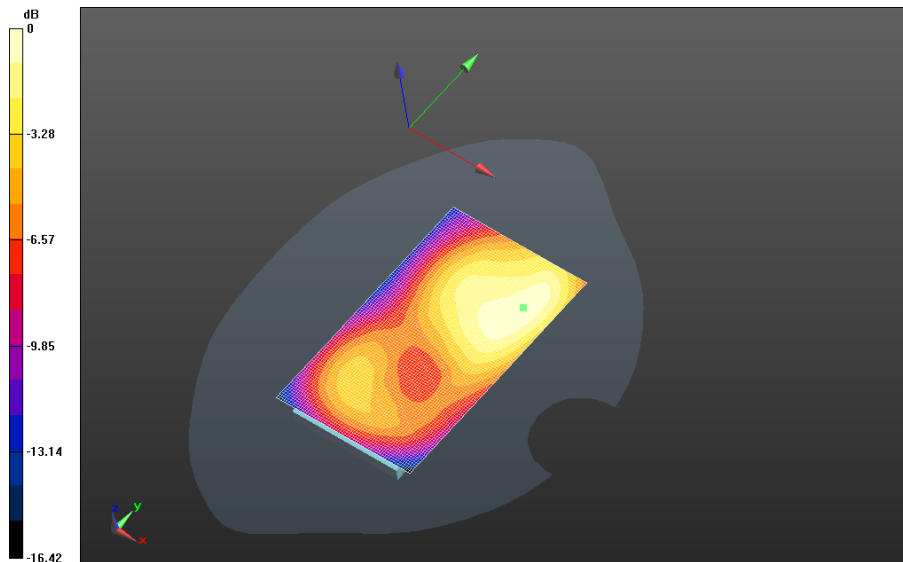
Body Worn MSL - UMTS II/15mm Device Front -

UMTS_II_chan9400_amb_temp_24.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.731 V/m; **Power Drift = 0.040 dB**

Fast SAR: SAR(1g) = 0.380 W/kg; SAR(10g) = 0.230 W/kg

Maximum value of SAR (interpolated) = 0.462 W/kg



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

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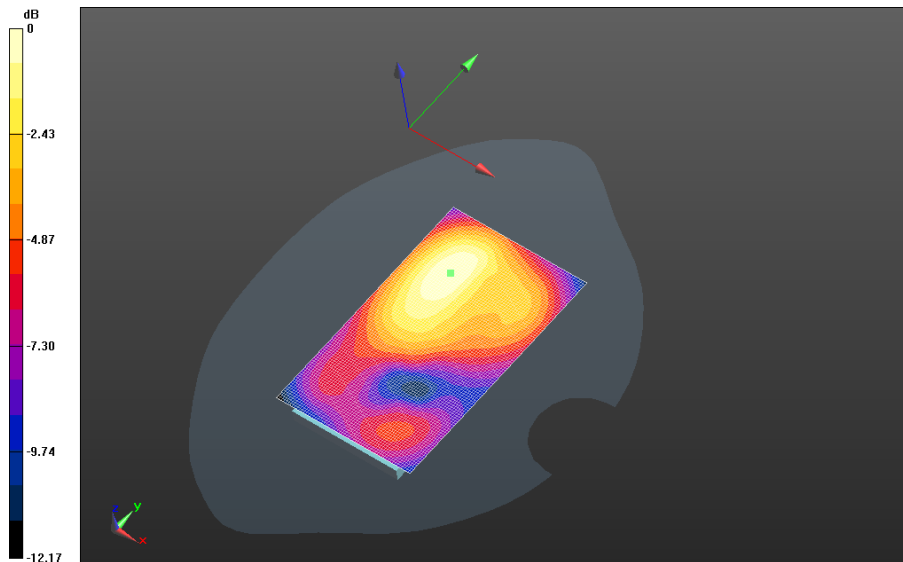
Body Worn MSL - UMTS II/Holster Device Back -

UMTS_II_chan9400_amb_temp_24.0C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.084 V/m; **Power Drift = -0.107 dB**

Fast SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.174 W/kg

Maximum value of SAR (interpolated) = 0.345 W/kg



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

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802.11b

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/19/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11b

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.991$ S/m; $\epsilon_r = 50.790$; $\rho = 1.000$ g/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_23.2C_liq_temp_21.5C/Area Scan (81x131x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

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

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

802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

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

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

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

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

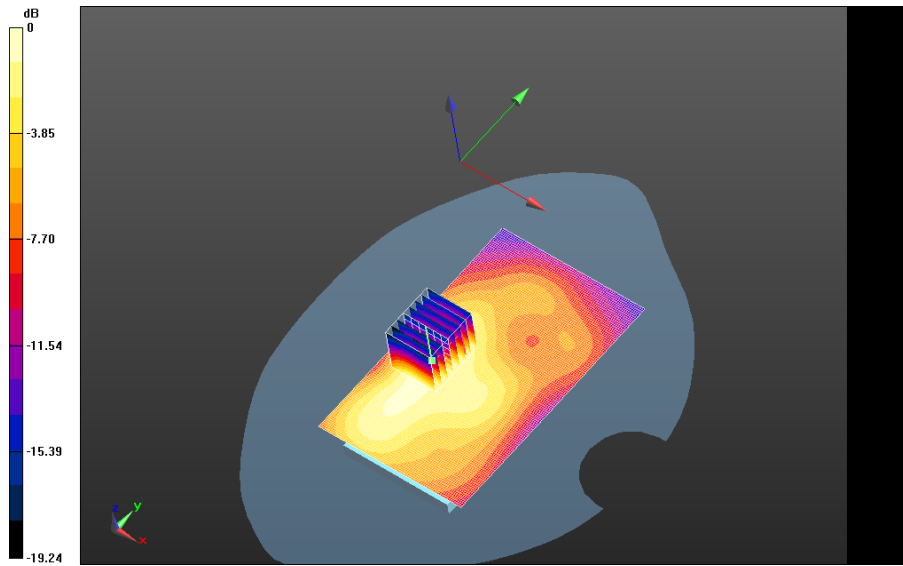
802.11b_chan6_amb_temp_23.2C_liq_temp_21.5C/Zoom Scan 2 (31x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

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

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

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

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

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

802.11b_chan6_amb_temp_23.0C_liq_temp_22.3C/Area Scan (81x141x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 6.860 V/m; **Power Drift = 0.404 dB**

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

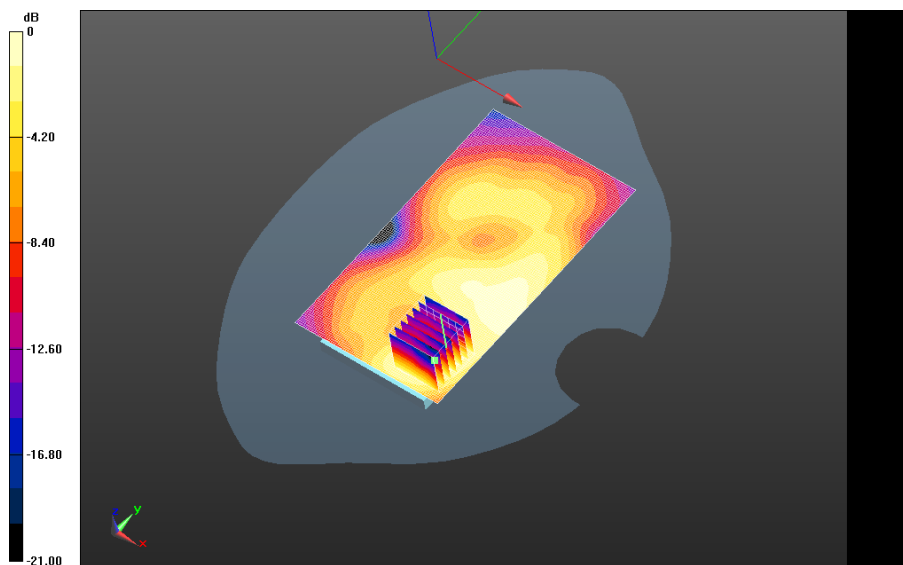
802.11b_chan6_amb_temp_23.0C_liq_temp_22.3C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 6.860 V/m; **Power Drift = 0.404 dB**

Averaged SAR: SAR(1g) = 0.113 W/kg; SAR(10g) = 0.0651 W/kg

Maximum value of SAR (interpolated) = 0.205 W/kg



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

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Body Worn MSL - 802.11b/Holster Device Back -

802.11b_chan6_amb_temp_23.1C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 6.906 V/m; **Power Drift = -0.038 dB**

Body Worn MSL - 802.11b/Holster Device Back -

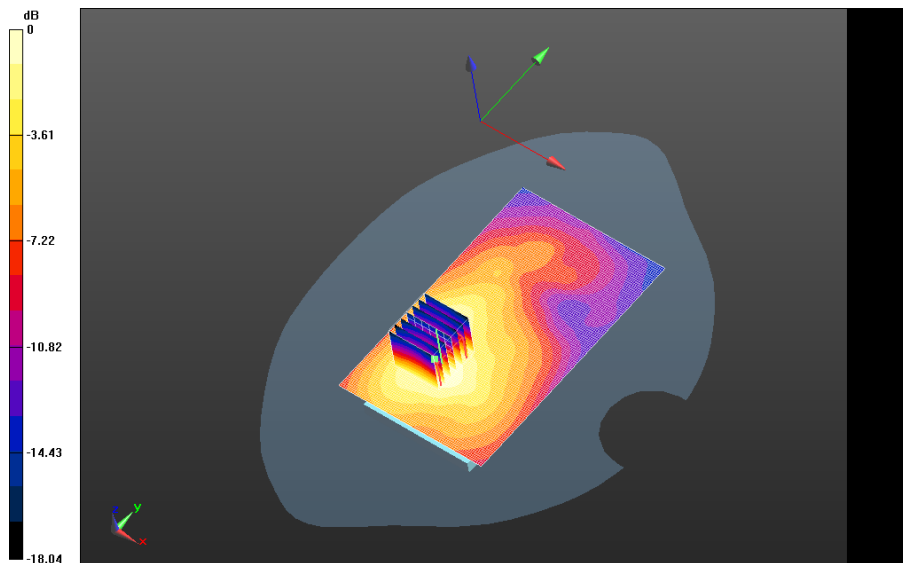
802.11b_chan6_amb_temp_23.1C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 6.906 V/m; **Power Drift = -0.038 dB**

Averaged SAR: SAR(1g) = 0.193 W/kg; SAR(10g) = 0.112 W/kg

Maximum value of SAR (interpolated) = 0.351 W/kg



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

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Bluetooth

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Date: 7/19/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - Bluetooth

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

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

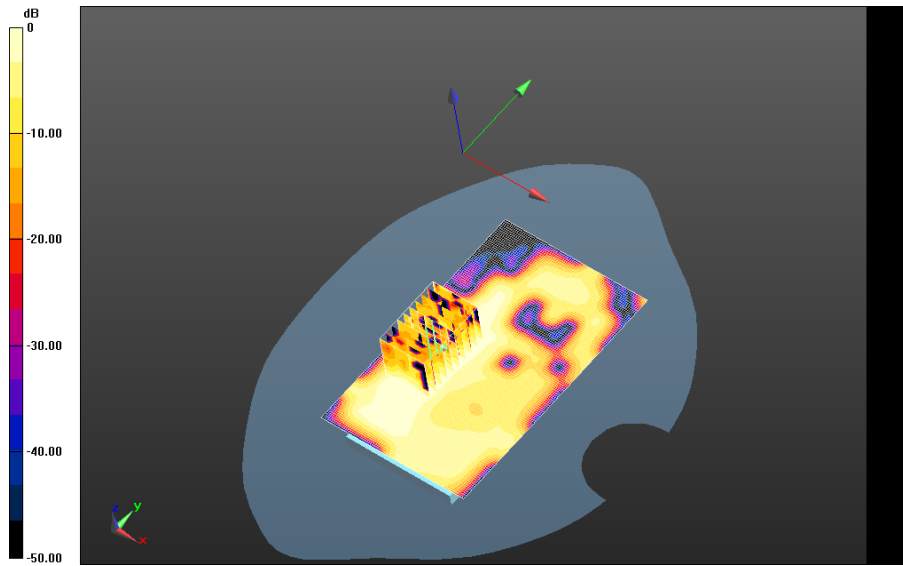
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

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 (RFY111LW)

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Date: 7/23/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5180$ MHz; $\sigma = 5.434$ S/m; $\epsilon_r = 49.846$; $\rho = 1.000$ g/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 (91x141x1):

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

Maximum value of SAR (interpolated) = 0.756 W/kg

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

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

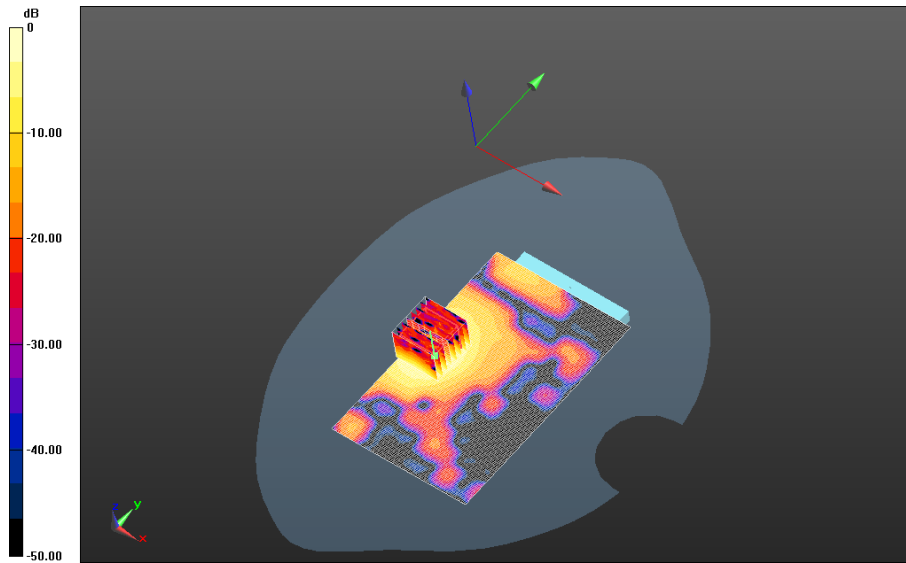
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

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

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

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

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0 dB = 0.750 W/kg = -1.25 dBW/kg

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Date: 8/14/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5200 MHz

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

Medium Parameters used: $f=5260$ MHz; $\sigma = 5.473$ S/m; $\epsilon_r = 48.635$; $\rho = 1.000$ g/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_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan (81x141x1):

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

Maximum value of SAR (interpolated) = 0.952 W/kg

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

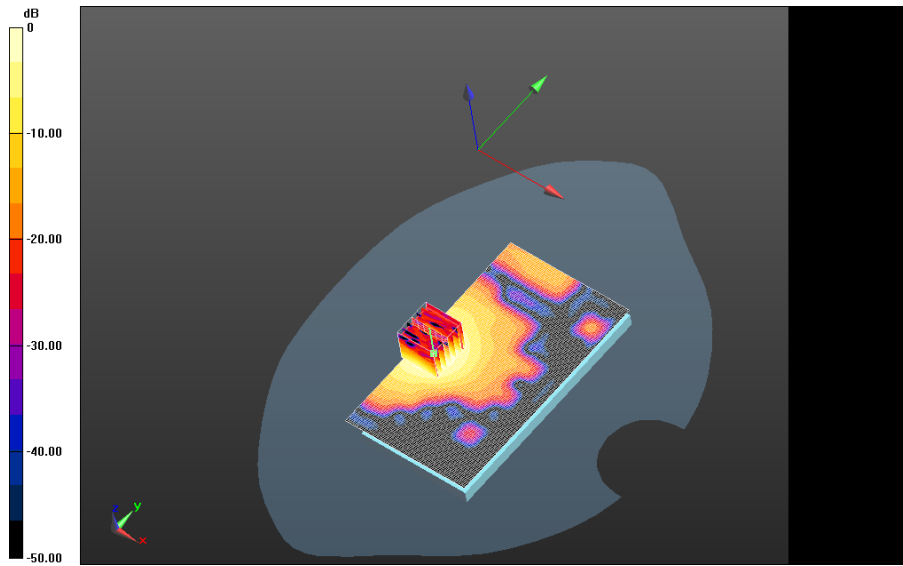
802.11a_chan52_low_band_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan (31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

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

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

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

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

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Date: 8/14/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 5.804$ S/m; $\epsilon_r = 47.629$; $\rho = 1.000$ g/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_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan

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

Maximum value of SAR (interpolated) = 0.512 W/kg

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

802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

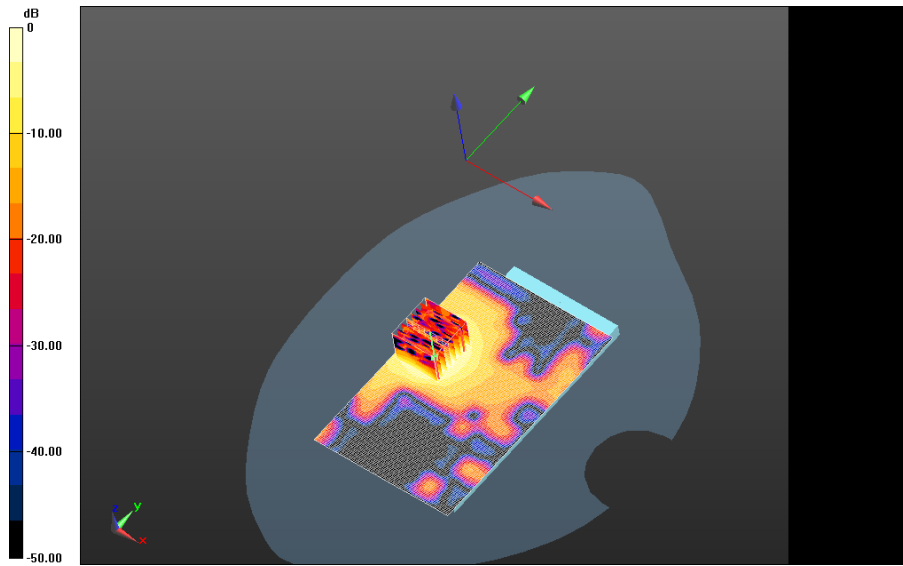
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.442 V/m; **Power Drift = -0.138 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.0963 W/kg

Maximum value of SAR (interpolated) = 0.969 W/kg

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

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Date: 7/23/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5500 MHz

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

802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan

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

Maximum value of SAR (interpolated) = 0.0913 W/kg

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

802.11a_chan104_upper_bandI_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

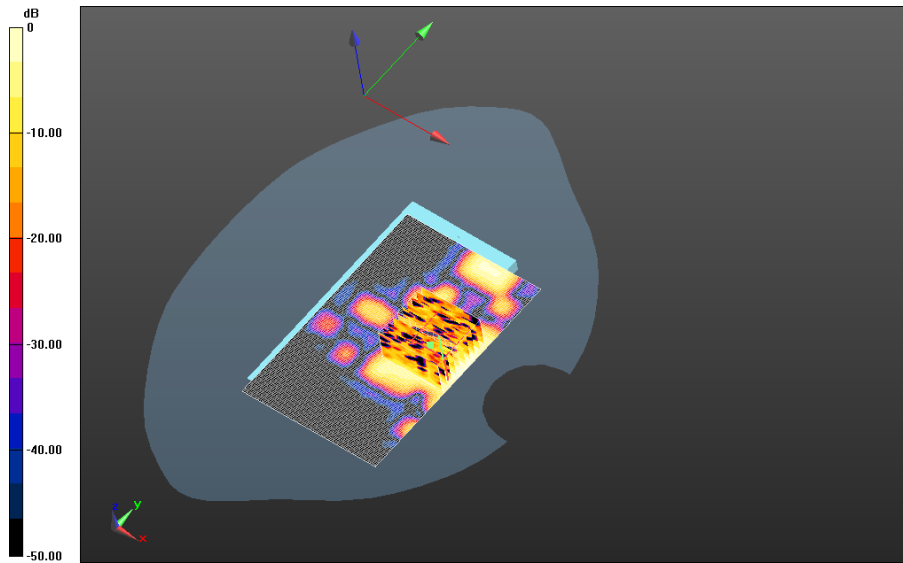
(51x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 4.161 V/m; Power Drift = -0.093 dB

Averaged SAR: SAR(1g) = 0.0401 W/kg; SAR(10g) = 0.0147 W/kg

Maximum value of SAR (interpolated) = 0.357 W/kg

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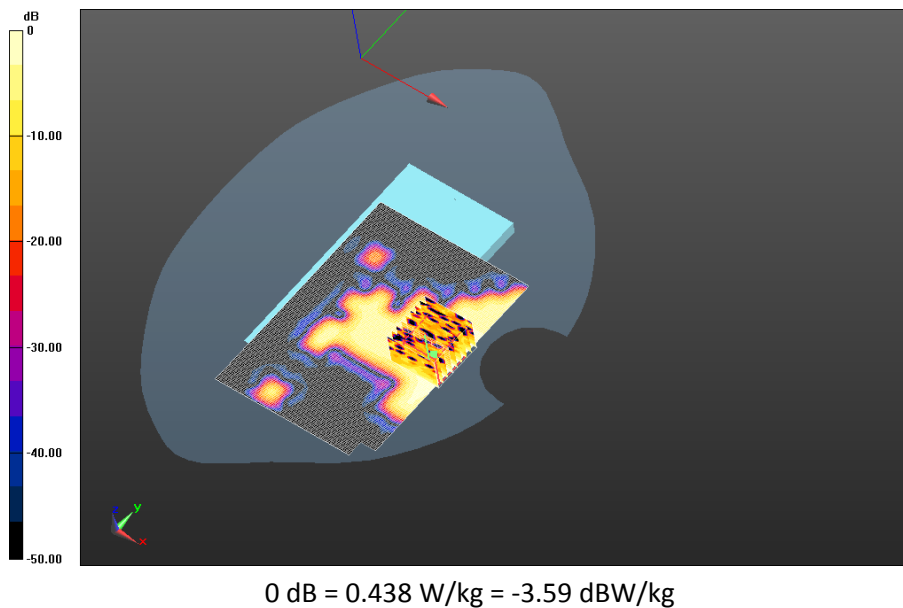
0 dB = 1.30 W/kg = 1.14 dBW/kg

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Body Worn MSL - 802.11a 5500 MHz/Holster Device Front - 802.11a_chan104_upper_band1_Amb_Temp_23.4C_Liquid_Temp_21.0C/Area Scan (101x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0627 W/kg

Body Worn MSL - 802.11a 5500 MHz/Holster Device Front - 802.11a_chan104_upper_band1_Amb_Temp_23.4C_Liquid_Temp_21.0C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 4.023 V/m; Power Drift = 0.045 dB

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



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Date: 8/14/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.910$ S/m; $\epsilon_r = 45.919$; $\rho = 1.000$ g/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_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Area Scan

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

Maximum value of SAR (interpolated) = 0.248 W/kg

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

802.11a_chan149_upper_bandII_Amb_Temp_23.4C_Liquid_Temp_21.7C/Zoom Scan

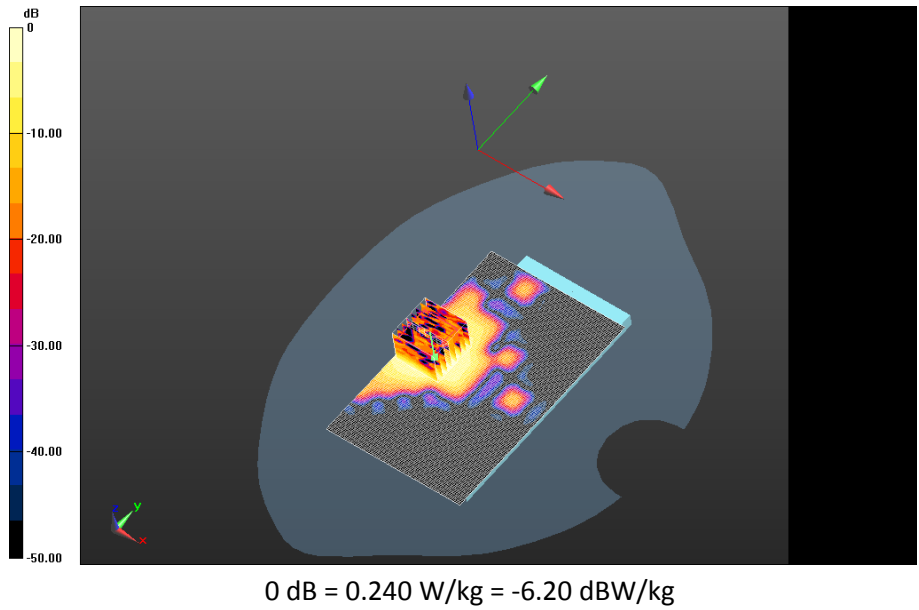
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

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

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

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

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Date: 7/23/2013

Test Lab: RIM Testing Services

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

Configuration: Body Worn MSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5745$ MHz; $\sigma = 6.256$ S/m; $\epsilon_r = 48.409$; $\rho = 1.000$ g/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_23.0C_Liquid_Temp_22.0C/Area Scan

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

Maximum value of SAR (interpolated) = 0.551 W/kg

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

802.11a_chan153_upper_bandII_Amb_Temp_23.0C_Liquid_Temp_22.0C/Zoom Scan

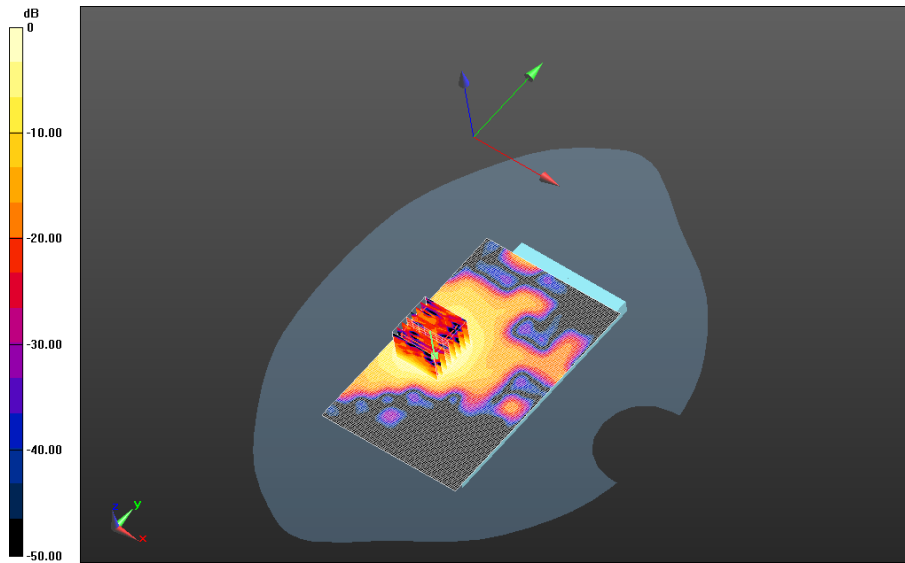
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 9.812 V/m; Power Drift = 0.034 dB

Averaged SAR: SAR(1g) = 0.288 W/kg; SAR(10g) = 0.101 W/kg

Maximum value of SAR (interpolated) = 1.02 W/kg

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