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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Device Model: RHC161LW

GSM 850

Date: 2/25/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C

Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots) (0); Communication System Band: GPRS 850 (3 slots); Frequency: 824.2 MHz

Medium Parameters used: $f=825$ MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 52.831$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-

Slot_chan128_amb_temp_23.9C_liq_temp_21.0C/Area Scan (121x61x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 29.458 V/m; **Power Drift = -0.099 dB**

Fast SAR: SAR(1g) = 0.730 W/kg; SAR(10g) = 0.514 W/kg

Maximum value of SAR (interpolated) = 0.770 W/kg

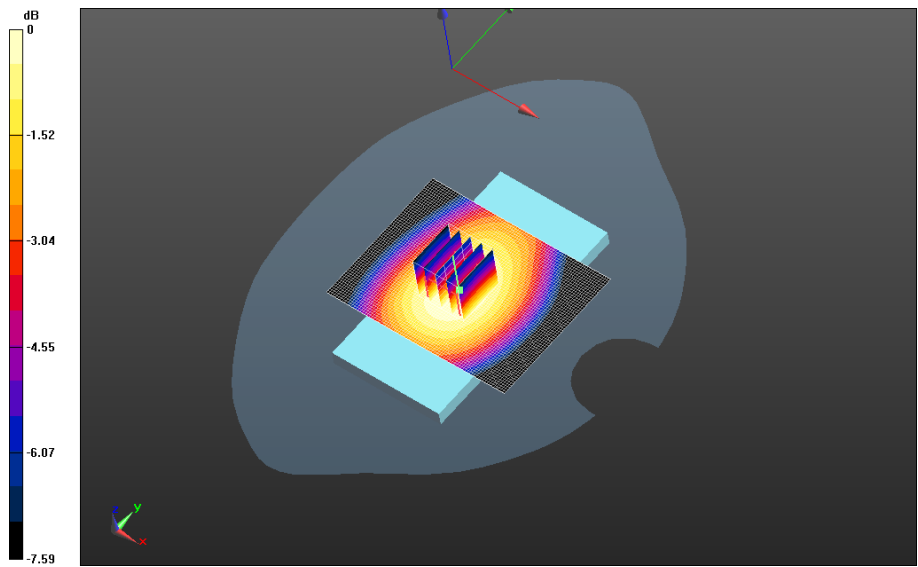
Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-

Slot_chan128_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 = 29.458 V/m; **Power Drift = -0.099 dB**

Averaged SAR: SAR(1g) = 0.722 W/kg; SAR(10g) = 0.552 W/kg

Maximum value of SAR (interpolated) = 0.883 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg

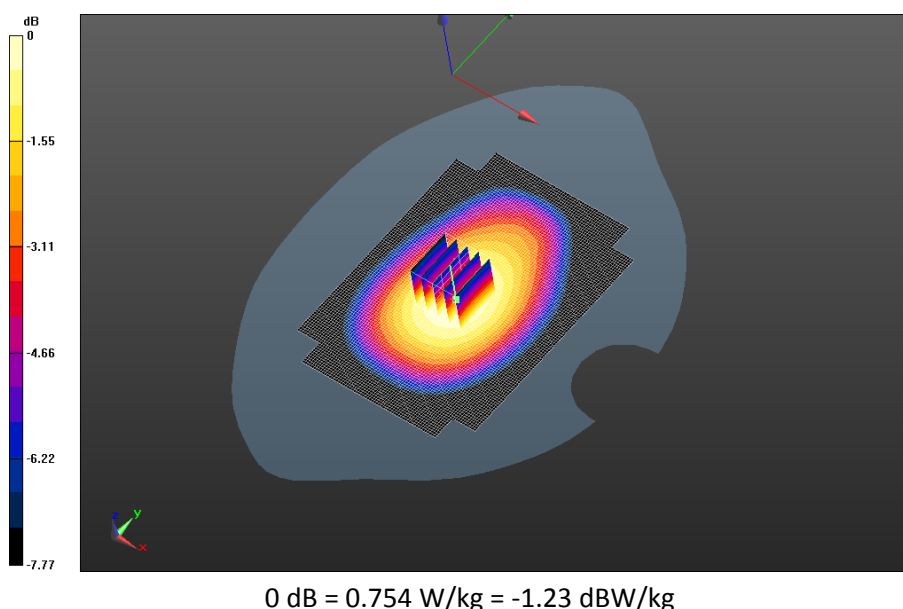
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Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_24.1C_liq_temp_21.0C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 29.170 V/m; **Power Drift = -0.124 dB**

Fast SAR: SAR(1g) = 0.722 W/kg; SAR(10g) = 0.508 W/kg
Maximum value of SAR (interpolated) = 0.763 W/kg

Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_24.1C_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 = 29.170 V/m; **Power Drift = -0.124 dB**

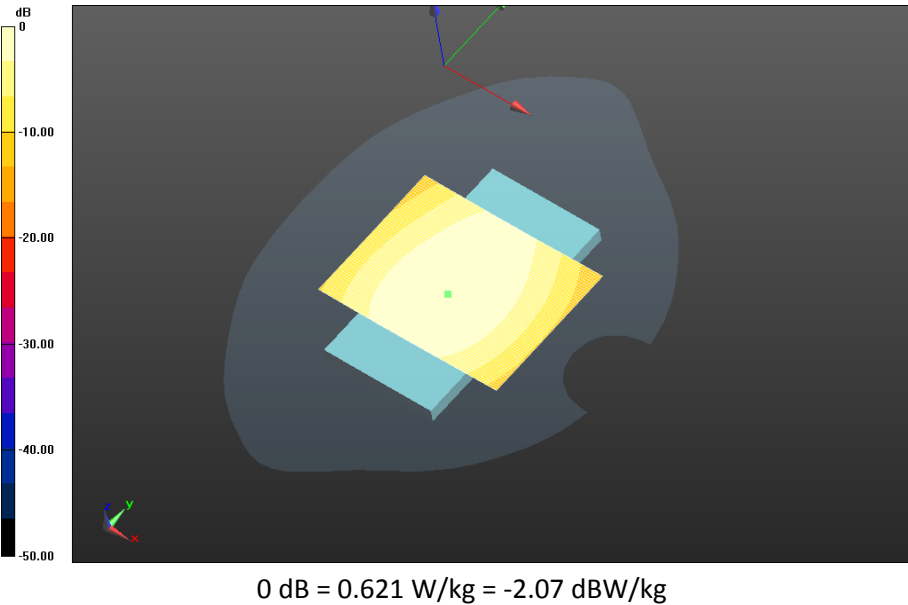
Averaged SAR: SAR(1g) = 0.719 W/kg; SAR(10g) = 0.548 W/kg
Maximum value of SAR (interpolated) = 0.887 W/kg



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Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan251_amb_temp_23.8C_liq_temp_21.0C/Area Scan (121x61x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 25.860 V/m; **Power Drift = -0.059 dB**

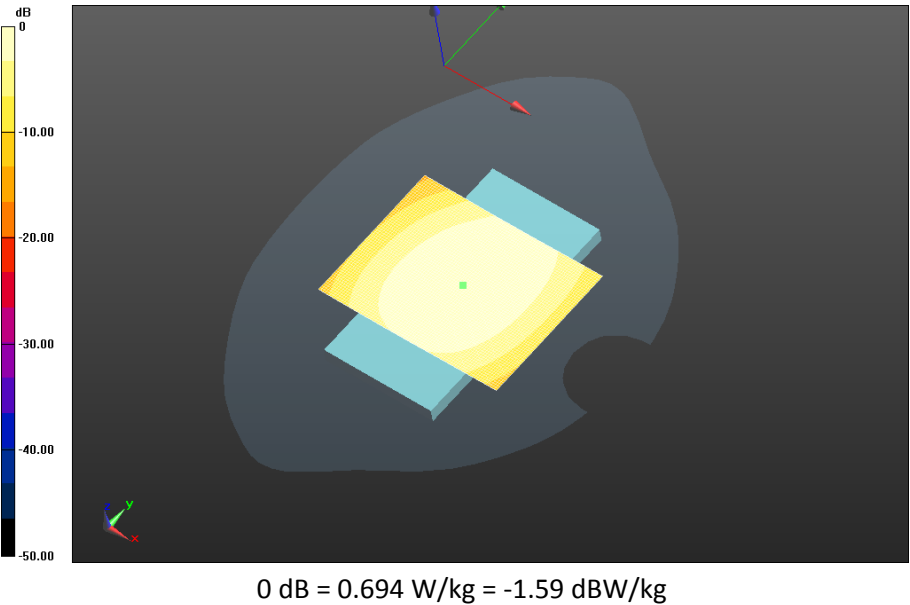
Fast SAR: SAR(1g) = 0.588 W/kg; SAR(10g) = 0.413 W/kg
Maximum value of SAR (interpolated) = 0.621 W/kg



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Body Worn MSL - GPRS 850/15mm Device Front - GPRS 850_3-Slot_chan128_amb_temp_24.1C_liq_temp_20.9C/Area Scan (121x61x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 28.181 V/m; **Power Drift = -0.120 dB**

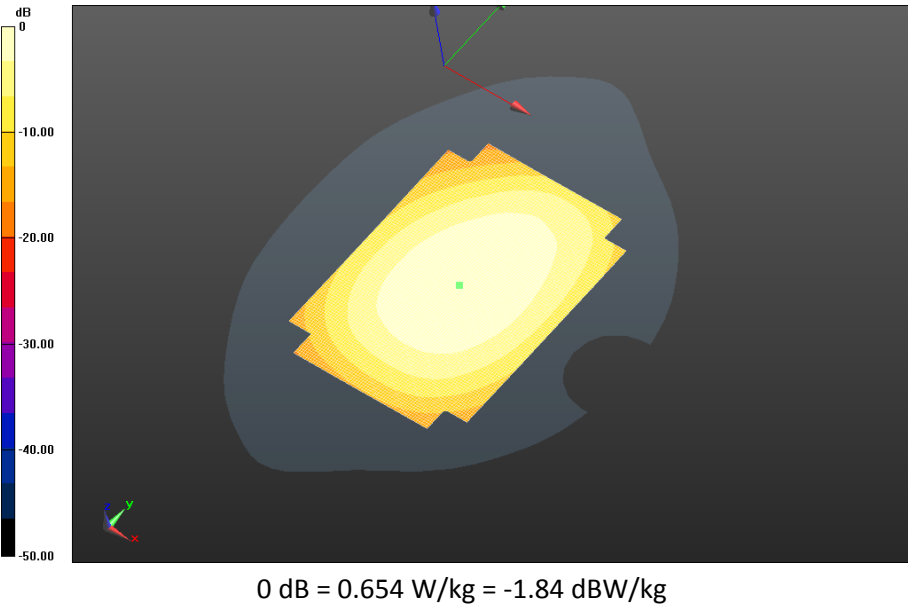
Fast SAR: SAR(1g) = 0.656 W/kg; SAR(10g) = 0.465 W/kg
Maximum value of SAR (interpolated) = 0.694 W/kg



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Body Worn MSL - GPRS 850/15mm Device Front - GPRS 850_3-Slot_chan190_amb_temp_23.7C_liq_temp_20.8C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 26.734 V/m; **Power Drift = 0.186 dB**

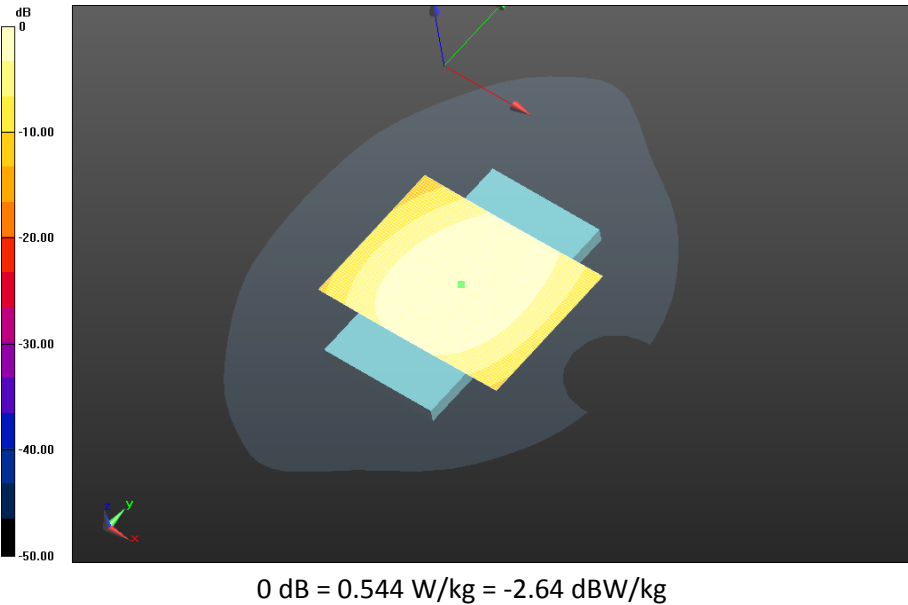
Fast SAR: SAR(1g) = 0.619 W/kg; SAR(10g) = 0.437 W/kg
Maximum value of SAR (interpolated) = 0.654 W/kg



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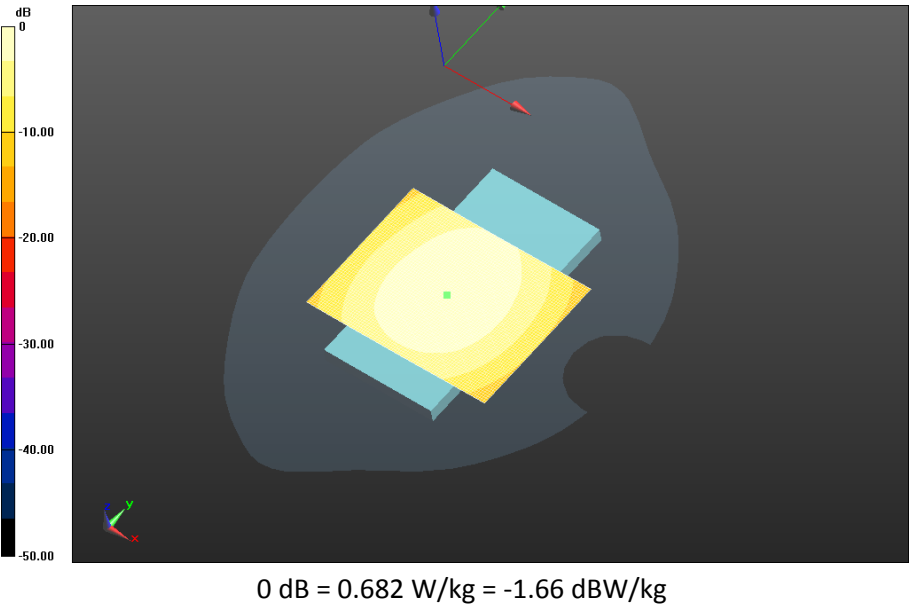
Body Worn MSL - GPRS 850/15mm Device Front - GPRS 850_3-Slot_chan251_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x61x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 24.492 V/m; **Power Drift = -0.043 dB**

Fast SAR: SAR(1g) = 0.515 W/kg; SAR(10g) = 0.365 W/kg
Maximum value of SAR (interpolated) = 0.544 W/kg



**Body Worn MSL - GPRS 850/Holster Device Back - GPRS 850_3-
Slot_chan128_amb_temp_23.9C_liq_temp_21.0C/Area Scan (121x61x1):** Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 27.556 V/m; **Power Drift = -0.172 dB**

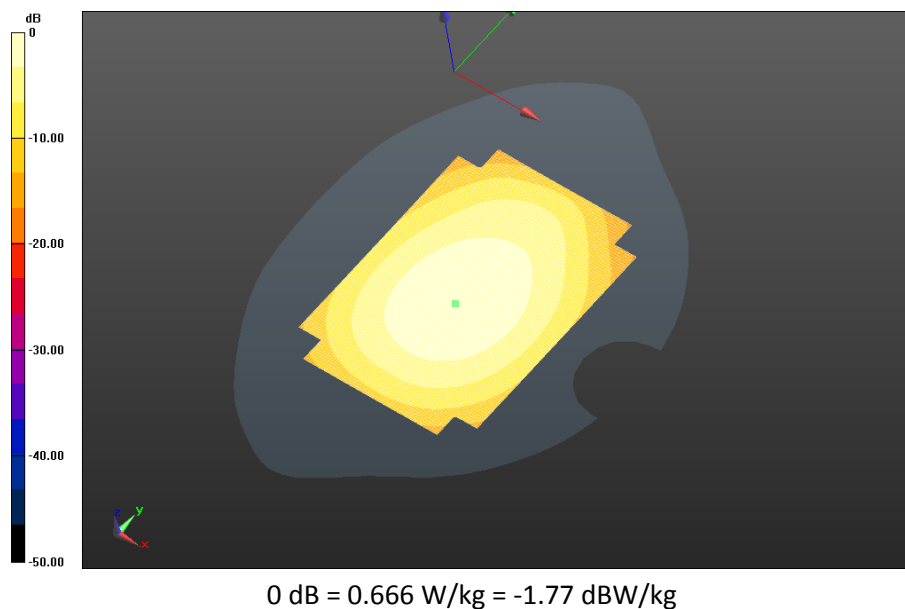
Fast SAR: SAR(1g) = 0.646 W/kg; SAR(10g) = 0.454 W/kg
Maximum value of SAR (interpolated) = 0.682 W/kg



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Body Worn MSL - GPRS 850/Holster Device Back - GPRS 850_3-
Slot_chan190_amb_temp_23.8C_liq_temp_20.8C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 26.602 V/m; **Power Drift = 0.055 dB**

Fast SAR: SAR(1g) = 0.630 W/kg; SAR(10g) = 0.440 W/kg
Maximum value of SAR (interpolated) = 0.666 W/kg



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Body Worn MSL - GPRS 850/Holster Device Back - GPRS 850_3-

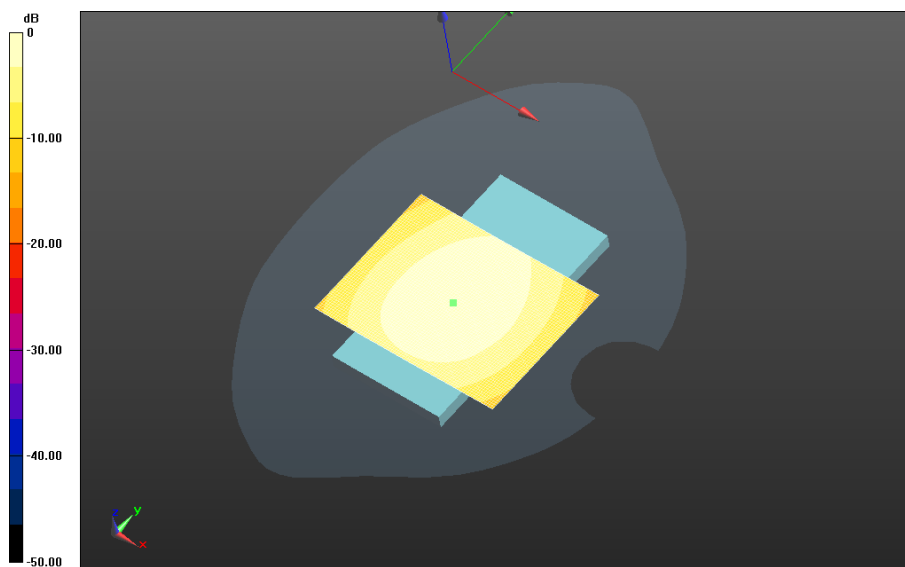
Slot_chan251_amb_temp_23.8C_liq_temp_21.0C/Area Scan (121x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 23.178 V/m; **Power Drift = -0.157 dB**

Fast SAR: SAR(1g) = 0.483 W/kg; SAR(10g) = 0.337 W/kg

Maximum value of SAR (interpolated) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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UMTS Band V

Date: 2/23/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C

Configuration: Body Worn MSL - UMTS V

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V;

Frequency: 826.4 MHz

Medium Parameters used: $f=826.4$ MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 52.817$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

V_chan4132_amb_temp_23.6C_liq_temp_21.0C/Area Scan (121x171x1): Interpolated grid:

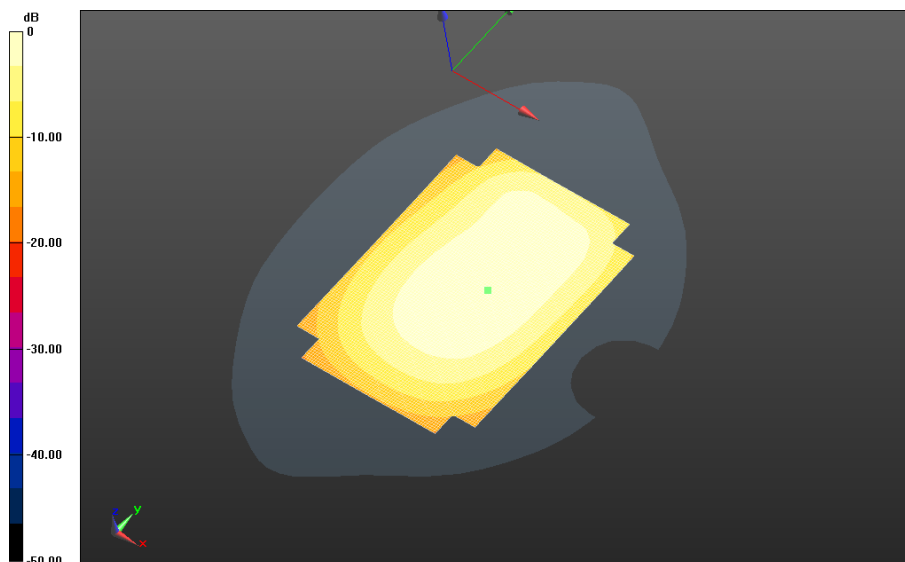
dx=1.500 mm, dy=1.500 mm

Reference Value = 21.578 V/m; **Power Drift = 0.035 dB**

Fast SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.285 W/kg

Maximum value of SAR (interpolated) = 0.427 W/kg

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0 dB = 0.427 W/kg = -3.70 dBW/kg

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

V_chan4182_amb_temp_23.7C_liq_temp_21.0C/Area Scan (81x81x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 22.873 V/m; **Power Drift = 0.00824 dB**

Fast SAR: SAR(1g) = 0.494 W/kg; SAR(10g) = 0.343 W/kg

Maximum value of SAR (interpolated) = 0.526 W/kg

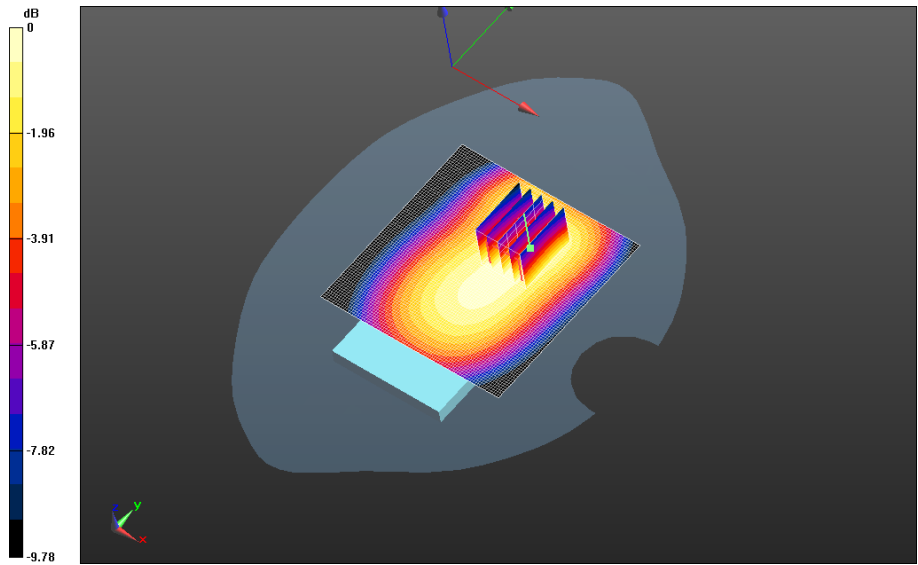
Body Worn MSL - UMTS V/15mm Device Back - UMTS

V_chan4182_amb_temp_23.7C_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 = 22.873 V/m; **Power Drift = 0.00824 dB**

Averaged SAR: SAR(1g) = 0.499 W/kg; SAR(10g) = 0.365 W/kg

Maximum value of SAR (interpolated) = 0.669 W/kg



0 dB = 0.531 W/kg = -2.75 dBW/kg

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

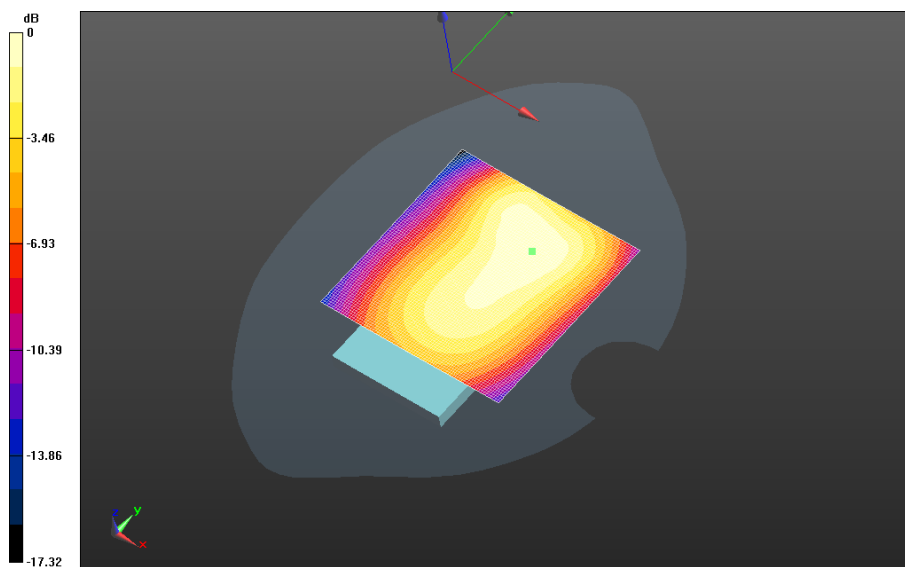
V_chan4233_amb_temp_23.5C_liq_temp_21.0C/Area Scan (81x81x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 19.719 V/m; **Power Drift = -0.042 dB**

Fast SAR: SAR(1g) = 0.429 W/kg; SAR(10g) = 0.296 W/kg

Maximum value of SAR (interpolated) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

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

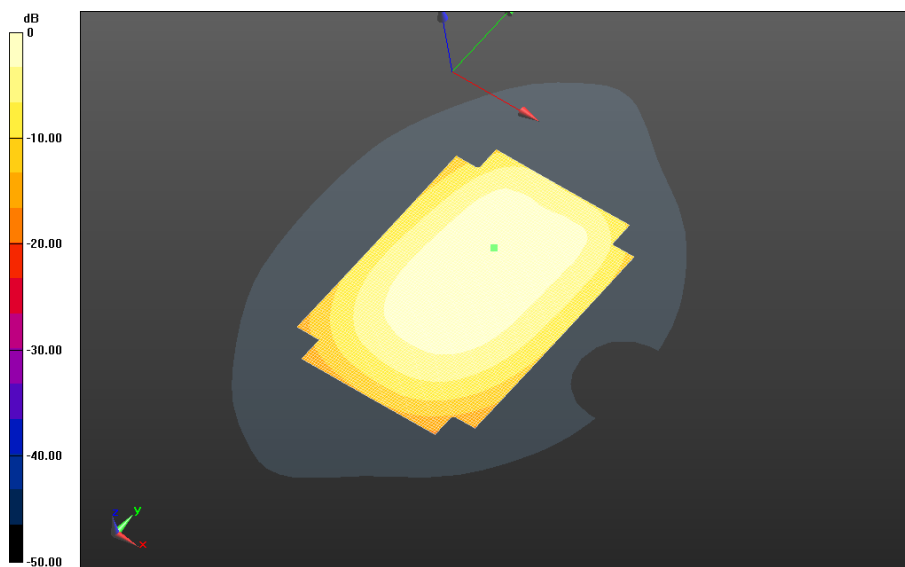
V_chan4182_amb_temp_23.6C_liq_temp_21.0C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 22.633 V/m; **Power Drift = 0.00926 dB**

Fast SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.329 W/kg

Maximum value of SAR (interpolated) = 0.493 W/kg

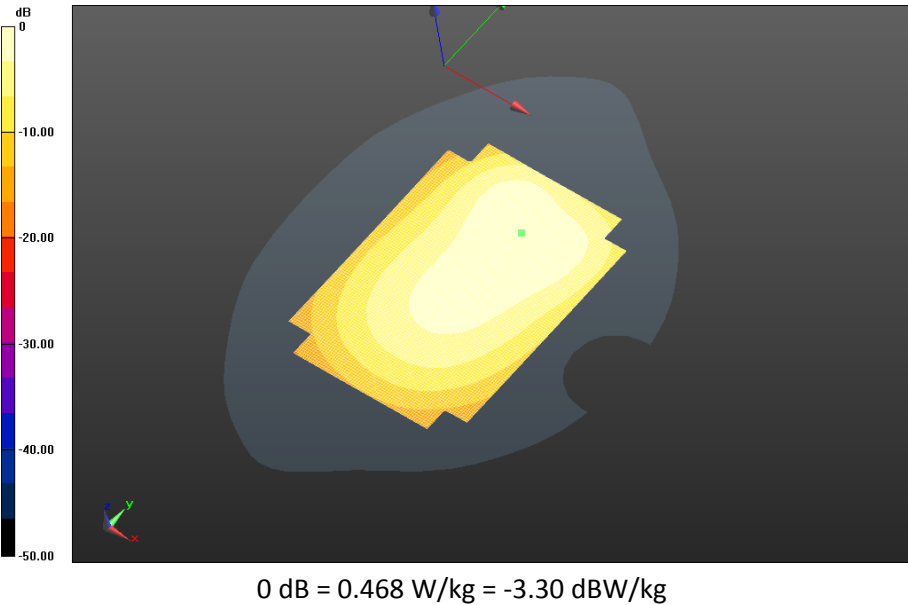


0 dB = 0.493 W/kg = -3.07 dBW/kg

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Body Worn MSL - UMTS V/Holster Device Back - UMTS
V_chan4182_amb_temp_23.5C_liq_temp_21.0C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 19.006 V/m; **Power Drift = -0.117 dB**

Fast SAR: SAR(1g) = 0.444 W/kg; SAR(10g) = 0.308 W/kg
Maximum value of SAR (interpolated) = 0.468 W/kg



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GSM 1900

Date: 2/9/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C

Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900 (2-slots) (0); Communication System Band: GPRS 1900;

Frequency: 1909.8 MHz

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 52.002$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900_2-

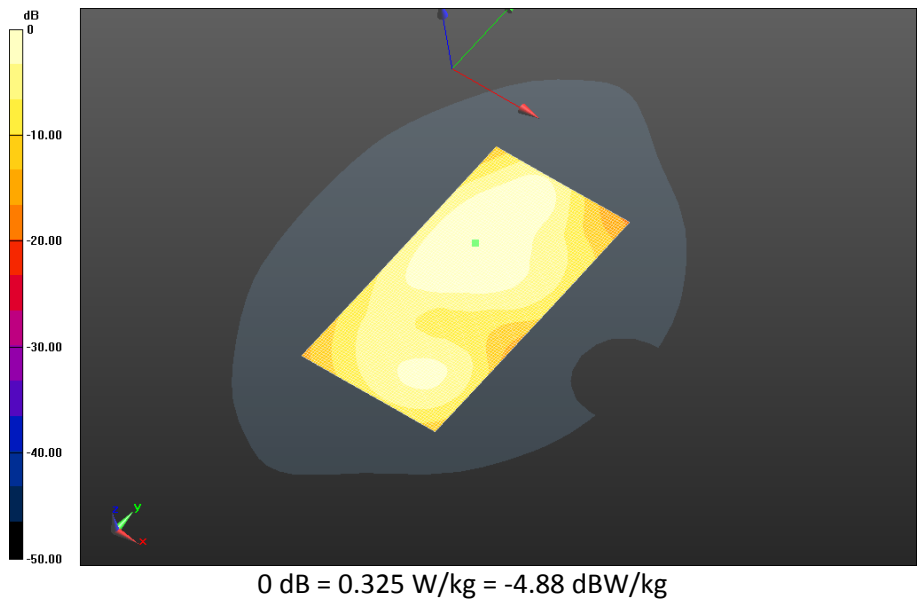
slots_chan810_amb_temp_23.8C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.062 V/m; **Power Drift = -0.057 dB**

Fast SAR: SAR(1g) = 0.304 W/kg; SAR(10g) = 0.188 W/kg

Maximum value of SAR (interpolated) = 0.325 W/kg



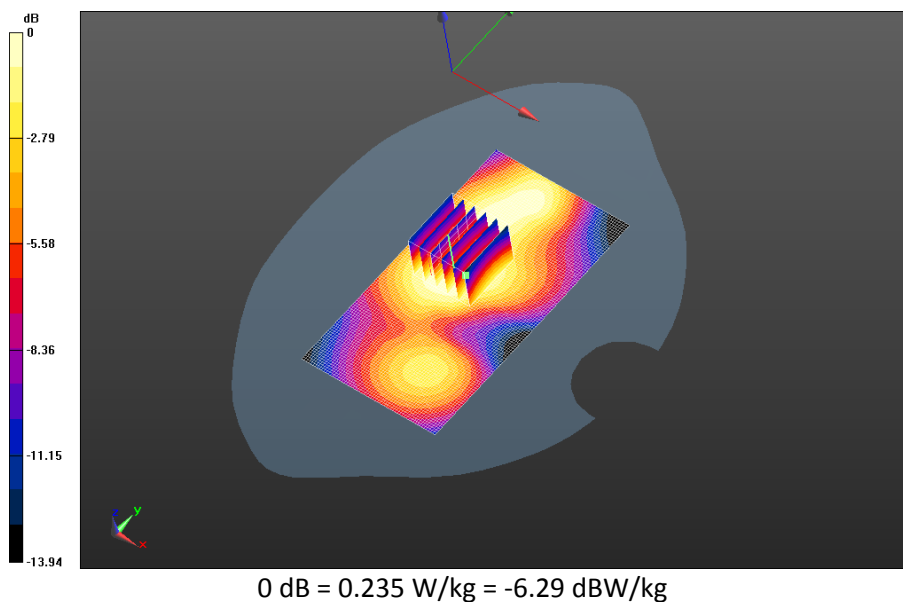
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Body Worn MSL - GPRS 1900/Holster Device Back -GPRS 1900_2-slot_chan661_amb_temp_23.8C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 12.250 V/m; **Power Drift = 0.022 dB**

Fast SAR: SAR(1g) = 0.225 W/kg; SAR(10g) = 0.141 W/kg
Maximum value of SAR (interpolated) = 0.240 W/kg

Body Worn MSL - GPRS 1900/Holster Device Back -GPRS 1900_2-slot_chan661_amb_temp_23.8C_liq_temp_21.4C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 12.250 V/m; **Power Drift = 0.022 dB**

Averaged SAR: SAR(1g) = 0.222 W/kg; SAR(10g) = 0.149 W/kg
Maximum value of SAR (interpolated) = 0.310 W/kg



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UMTS Band II

Date: 2/6/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C

Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;

Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 52.189$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

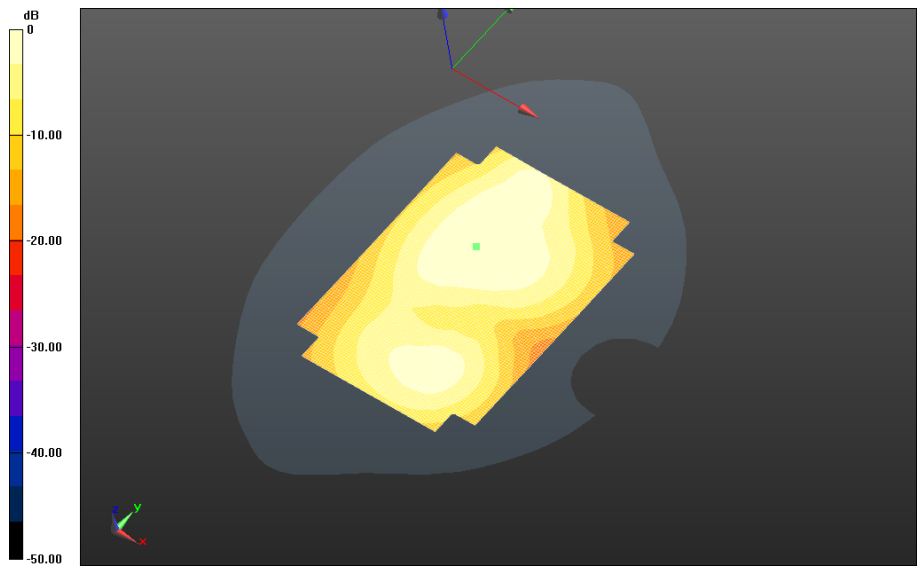
II_chan9262_amb_temp_23.6C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid:

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

Reference Value = 14.195 V/m; **Power Drift = -0.129 dB**

Fast SAR: SAR(1g) = 0.467 W/kg; SAR(10g) = 0.290 W/kg

Maximum value of SAR (interpolated) = 0.503 W/kg



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

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

II_chan9400_amb_temp_23.5C_liq_temp_21.3C/Area Scan (71x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.495 V/m; **Power Drift = 0.055 dB**

Fast SAR: SAR(1g) = 0.474 W/kg; SAR(10g) = 0.295 W/kg

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

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

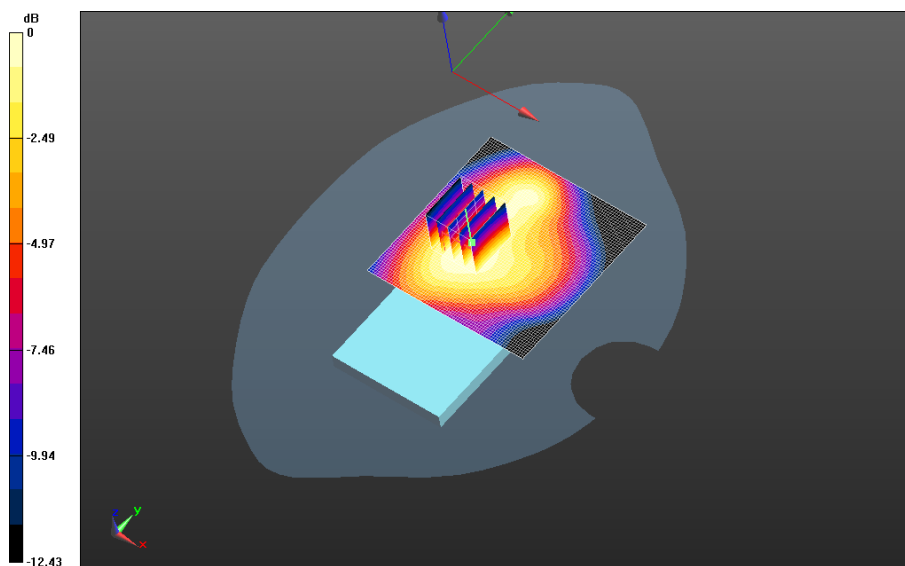
II_chan9400_amb_temp_23.5C_liq_temp_21.3C/Zoom Scan (21x21x36)/Cube 0: Interpolated

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

Reference Value = 14.495 V/m; **Power Drift = 0.055 dB**

Averaged SAR: SAR(1g) = 0.471 W/kg; SAR(10g) = 0.319 W/kg

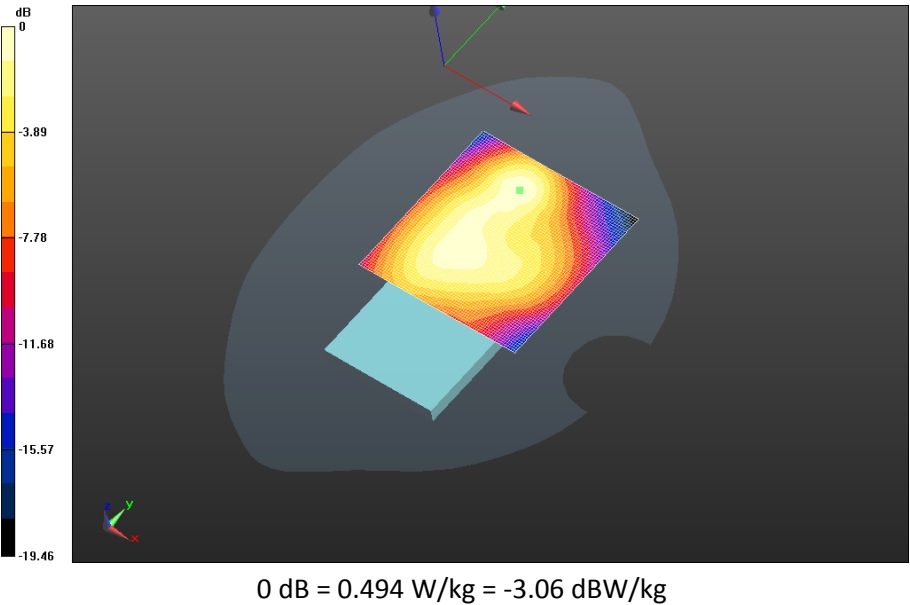
Maximum value of SAR (interpolated) = 0.648 W/kg



0 dB = 0.502 W/kg = -2.99 dBW/kg

Body Worn MSL - UMTS II/15mm Device Back - UMTS
II_chan9538_amb_temp_23.8C_liq_temp_21.3C/Area Scan (71x71x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 14.238 V/m; **Power Drift = -0.029 dB**

Fast SAR: SAR(1g) = 0.427 W/kg; SAR(10g) = 0.251 W/kg
Maximum value of SAR (interpolated) = 0.494 W/kg



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

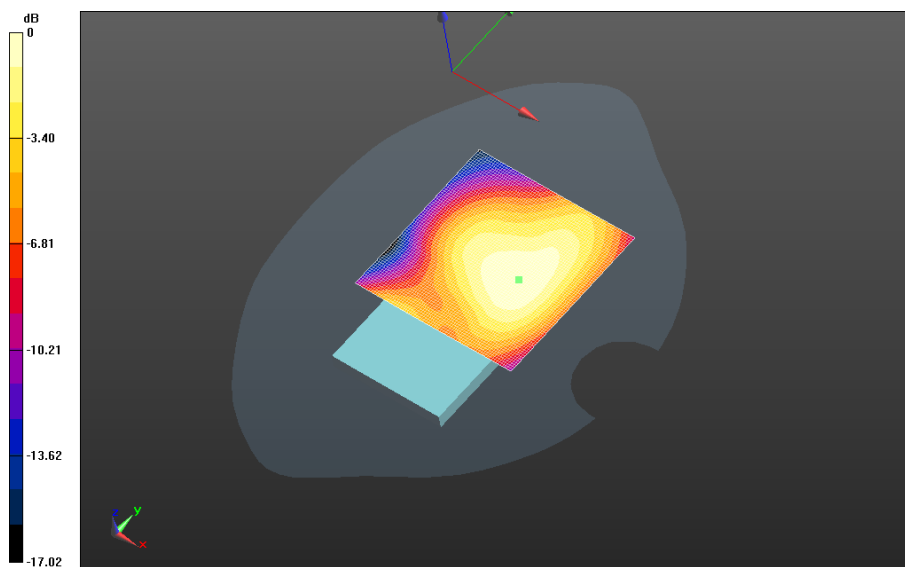
II_chan9400_amb_temp_23.5C_liq_temp_21.4C/Area Scan (71x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.118 V/m; **Power Drift = -0.015 dB**

Fast SAR: SAR(1g) = 0.430 W/kg; SAR(10g) = 0.266 W/kg

Maximum value of SAR (interpolated) = 0.463 W/kg

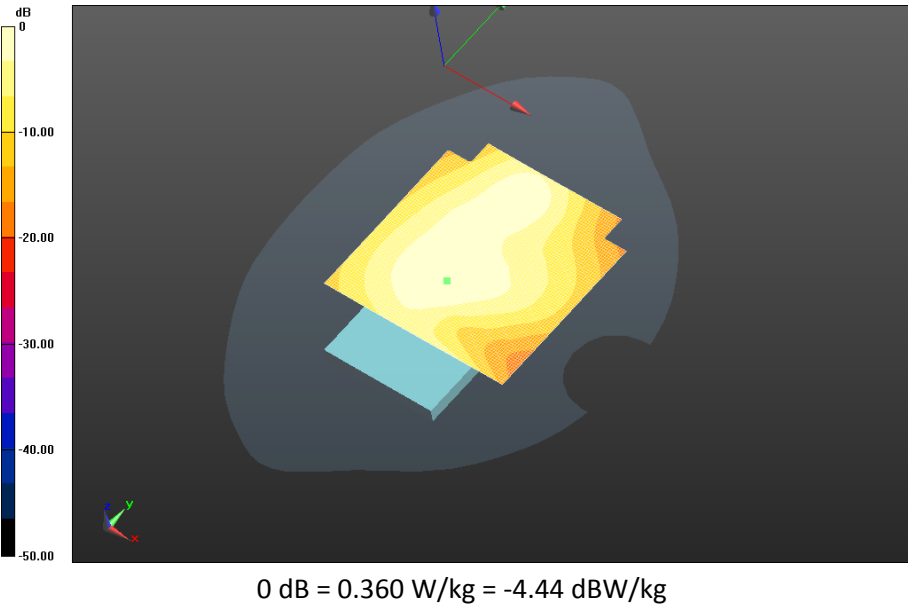


0 dB = 0.463 W/kg = -3.34 dBW/kg

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Body Worn MSL - UMTS II/Holster Device Back - UMTS
II_chan9400_amb_temp_23.3C_liq_temp_21.2C/Area Scan (81x81x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 15.791 V/m; **Power Drift = -0.182 dB**

Fast SAR: SAR(1g) = 0.326 W/kg; SAR(10g) = 0.201 W/kg
Maximum value of SAR (interpolated) = 0.360 W/kg



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802.11b/g

Date: 3/2/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7A1D

Configuration: Body Worn MSL - 802.11 g

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

Frequency: 2412 MHz

Medium Parameters used: $f=2412$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 51.676$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.07,4.07,4.07); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

802.11g_chan1_amb_temp_23.9C_liq_temp_21.6C/Area Scan (151x201x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 5.517 V/m; **Power Drift = -0.175 dB**

Fast SAR: SAR(1g) = 0.0922 W/kg; SAR(10g) = 0.0518 W/kg

Maximum value of SAR (interpolated) = 0.101 W/kg

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

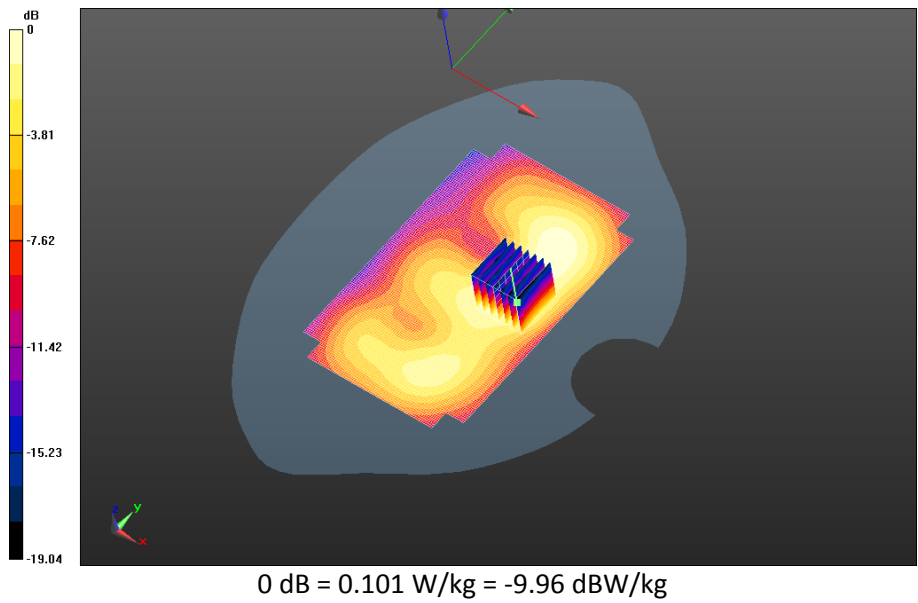
802.11g_chan1_amb_temp_23.9C_liq_temp_21.6C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 5.517 V/m; **Power Drift = -0.175 dB**

Averaged SAR: SAR(1g) = 0.0979 W/kg; SAR(10g) = 0.0522 W/kg

Maximum value of SAR (interpolated) = 0.234 W/kg



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

802.11g_chan6_amb_temp_23.8C_liq_temp_21.5C/Area Scan (151x201x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Reference Value = 5.365 V/m; **Power Drift = -0.055 dB**

Fast SAR: SAR(1g) = 0.0977 W/kg; SAR(10g) = 0.0544 W/kg

Maximum value of SAR (interpolated) = 0.108 W/kg

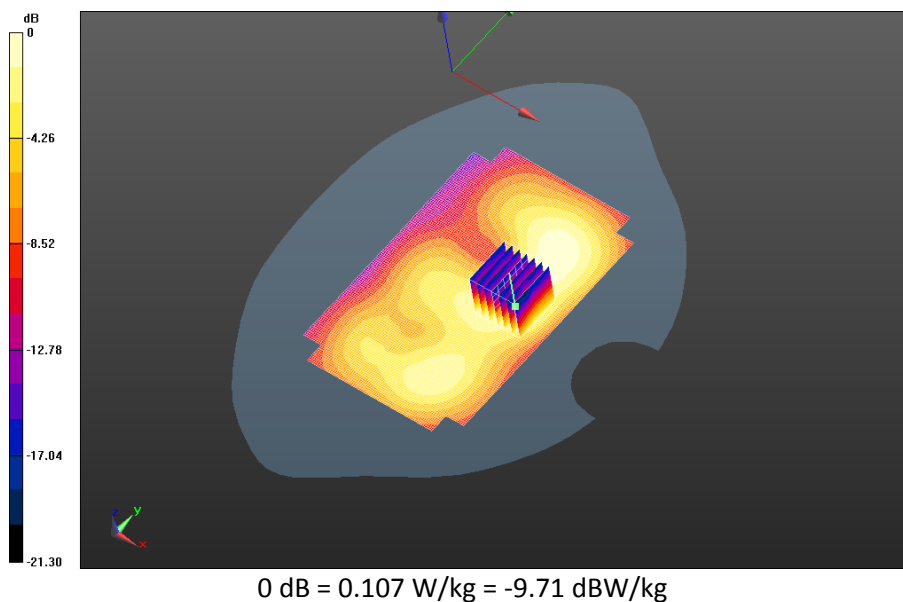
Body Worn MSL - 802.11 g/15mm Device Back -

802.11g_chan6_amb_temp_23.8C_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 = 5.365 V/m; **Power Drift = -0.055 dB**

Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0544 W/kg

Maximum value of SAR (interpolated) = 0.246 W/kg



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

802.11g_chan11_amb_temp_23.8C_liq_temp_21.5C/Area Scan (151x201x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 4.479 V/m; **Power Drift = -0.042 dB**

Fast SAR: SAR(1g) = 0.0673 W/kg; SAR(10g) = 0.0377 W/kg

Maximum value of SAR (interpolated) = 0.0748 W/kg

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

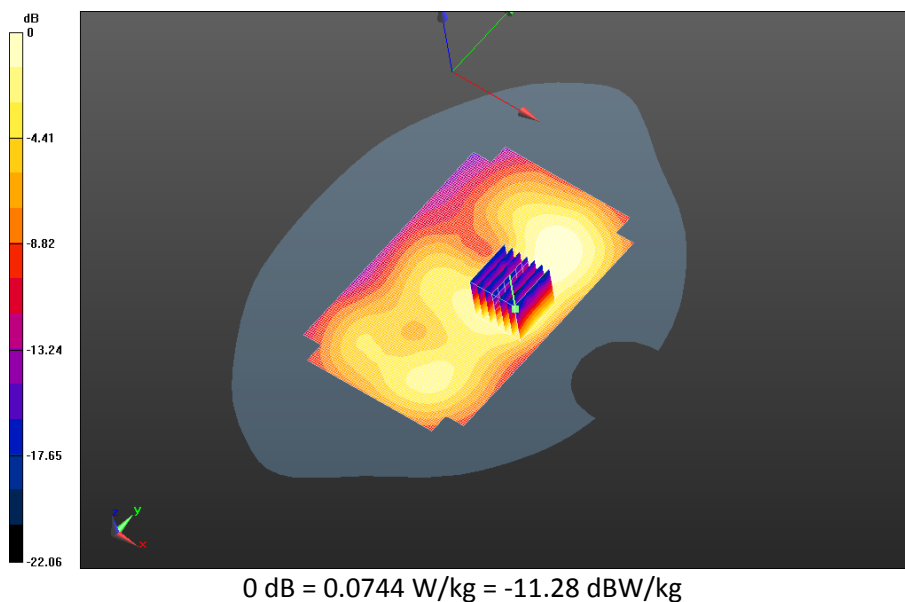
802.11g_chan11_amb_temp_23.8C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 4.479 V/m; **Power Drift = -0.042 dB**

Averaged SAR: SAR(1g) = 0.0720 W/kg; SAR(10g) = 0.0379 W/kg

Maximum value of SAR (interpolated) = 0.169 W/kg



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

802.11g_chan6_amb_temp_23.7C_liq_temp_21.4C/Area Scan (151x201x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 4.374 V/m; **Power Drift = -0.058 dB**

Fast SAR: SAR(1g) = 0.0636 W/kg; SAR(10g) = 0.0357 W/kg

Maximum value of SAR (interpolated) = 0.0695 W/kg

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

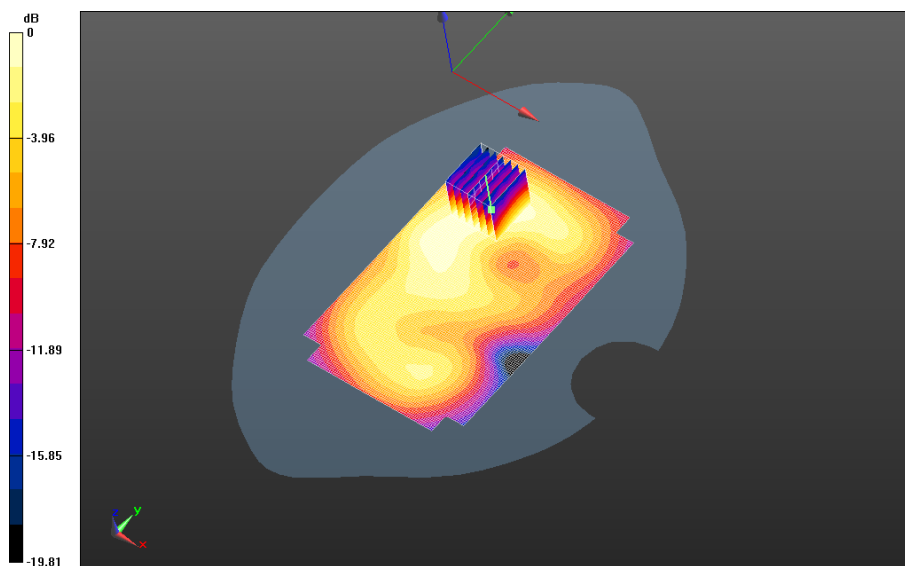
802.11g_chan6_amb_temp_23.7C_liq_temp_21.4C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 4.374 V/m; **Power Drift = -0.058 dB**

Averaged SAR: SAR(1g) = 0.0681 W/kg; SAR(10g) = 0.0374 W/kg

Maximum value of SAR (interpolated) = 0.157 W/kg



0 dB = 0.0694 W/kg = -11.59 dBW/kg

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Body Worn MSL - 802.11 g/Holster Device Back -

802.11g_chan6_amb_temp_23.8C_liq_temp_21.5C/Area Scan (151x201x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 5.401 V/m; **Power Drift = -0.016 dB**

Fast SAR: SAR(1g) = 0.0698 W/kg; SAR(10g) = 0.0398 W/kg

Maximum value of SAR (interpolated) = 0.0761 W/kg

Body Worn MSL - 802.11 g/Holster Device Back -

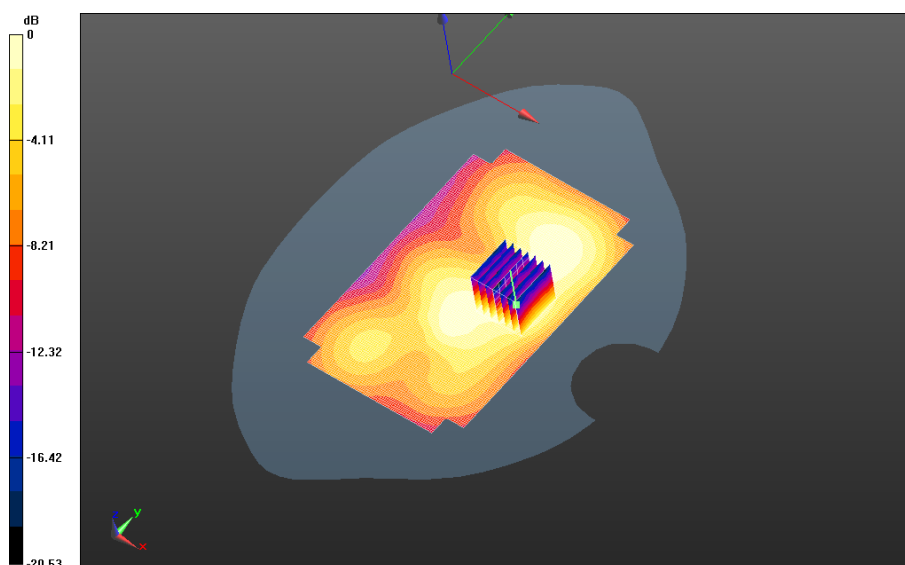
802.11g_chan6_amb_temp_23.8C_liq_temp_21.5C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 5.401 V/m; **Power Drift = -0.016 dB**

Averaged SAR: SAR(1g) = 0.0743 W/kg; SAR(10g) = 0.0405 W/kg

Maximum value of SAR (interpolated) = 0.170 W/kg



0 dB = 0.0768 W/kg = -11.15 dBW/kg

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Bluetooth

Date: 3/3/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE780C

Configuration: Body Worn MSL - Bluetooth

Communication System: Bluetooth (0); 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; $\epsilon_r = 51.638$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.07,4.07,4.07); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Worn MSL - Bluetooth/15mm Device Back -

Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.8C/Area Scan (151x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.780 V/m; **Power Drift = 0.00815 dB**

Fast SAR: SAR(1g) = 0.000711 W/kg; SAR(10g) = 0.000201 W/kg

Maximum value of SAR (interpolated) = 0.00152 W/kg

Body Worn MSL - Bluetooth/15mm Device Back -

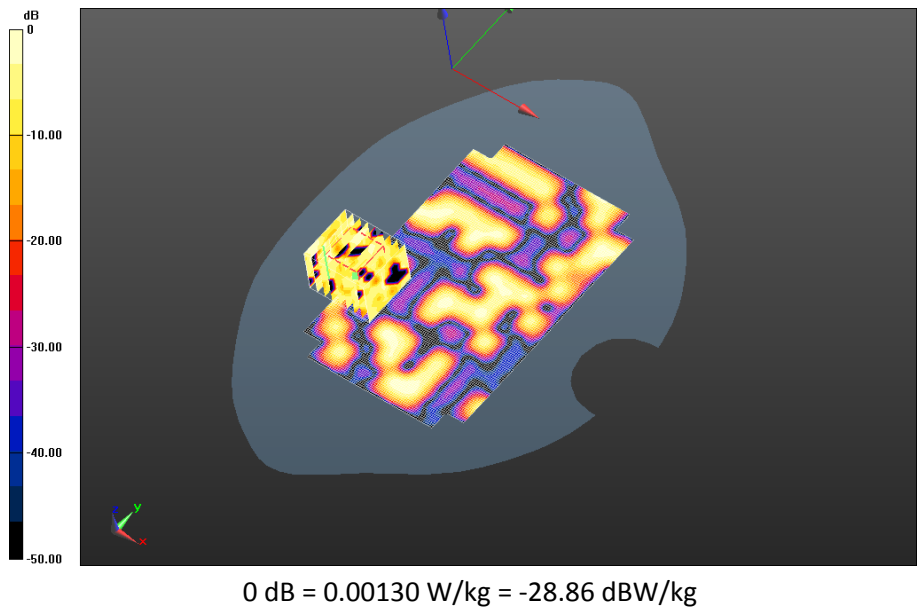
Bluetooth_chan39_amb_temp_24.1C_liq_temp_21.8C/Zoom Scan (41x36x36)/Cube 0:

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

Reference Value = 0.780 V/m; **Power Drift = 0.00815 dB**

Averaged SAR: SAR(1g) = 0.000341 W/kg; SAR(10g) = 0.000120 W/kg

Maximum value of SAR (interpolated) = 0.00133 W/kg



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Device Model: RHD131LW

GSM 850

Date: 2/25/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7836

Configuration: Body Worn MSL - GPRS 850

Communication System: GPRS 850 (3 slots) (0); Communication System Band: GPRS 850 (3 slots); Frequency: 824.2 MHz

Medium Parameters used: $f=825$ MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 52.831$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-

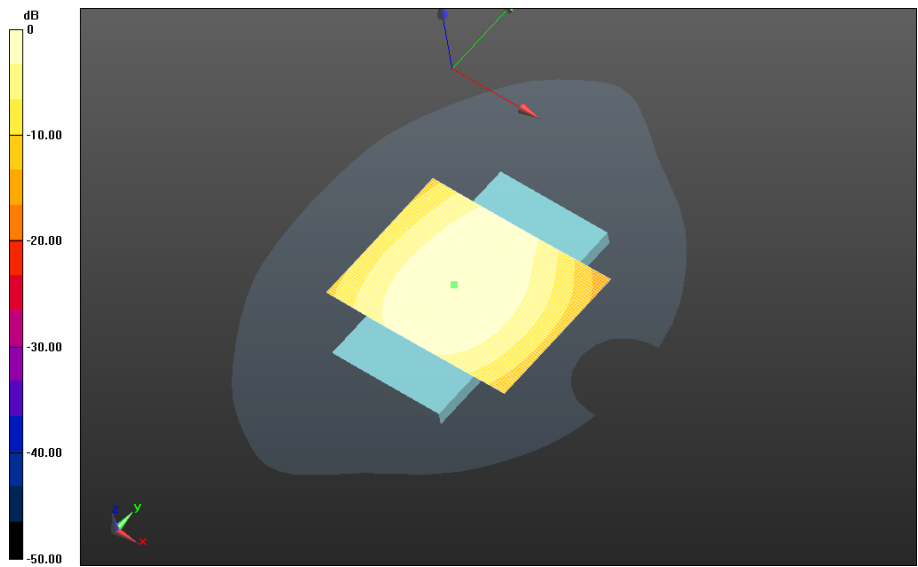
Slot_chan128_amb_temp_23.9C_liq_temp_21.7C/Area Scan (121x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 29.598 V/m; **Power Drift = -0.127 dB**

Fast SAR: SAR(1g) = 0.740 W/kg; SAR(10g) = 0.521 W/kg

Maximum value of SAR (interpolated) = 0.779 W/kg



0 dB = 0.779 W/kg = -1.08 dBW/kg

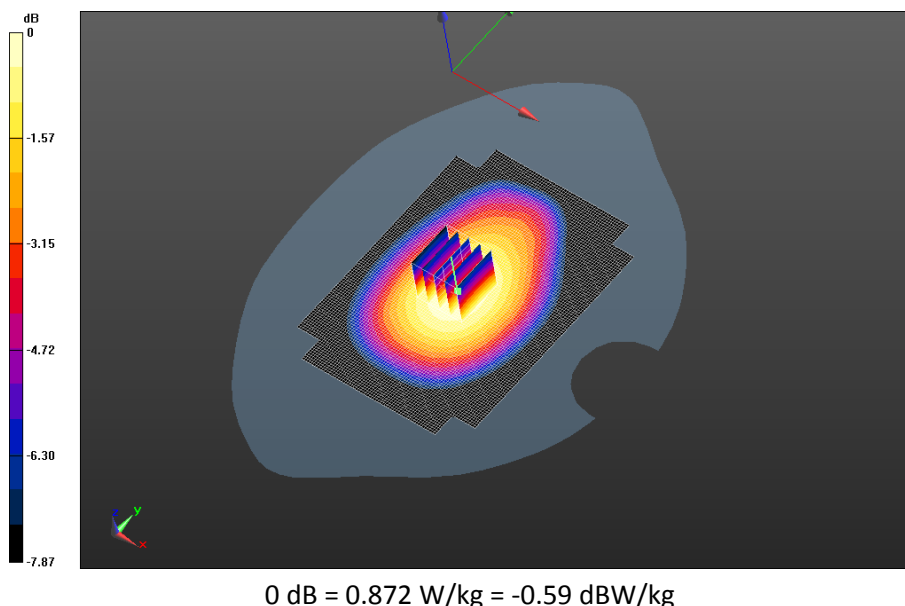
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Author Data Andrew Becker	Dates of Test Jan 29 –Mar 09, 2015	Test Report No RTS-6063-1503-17	FCC ID: L6ARHD130LW	

Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 30.633 V/m; **Power Drift = 0.047 dB**

Fast SAR: SAR(1g) = 0.820 W/kg; SAR(10g) = 0.577 W/kg
Maximum value of SAR (interpolated) = 0.866 W/kg

Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan190_amb_temp_23.7C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 30.633 V/m; **Power Drift = 0.047 dB**

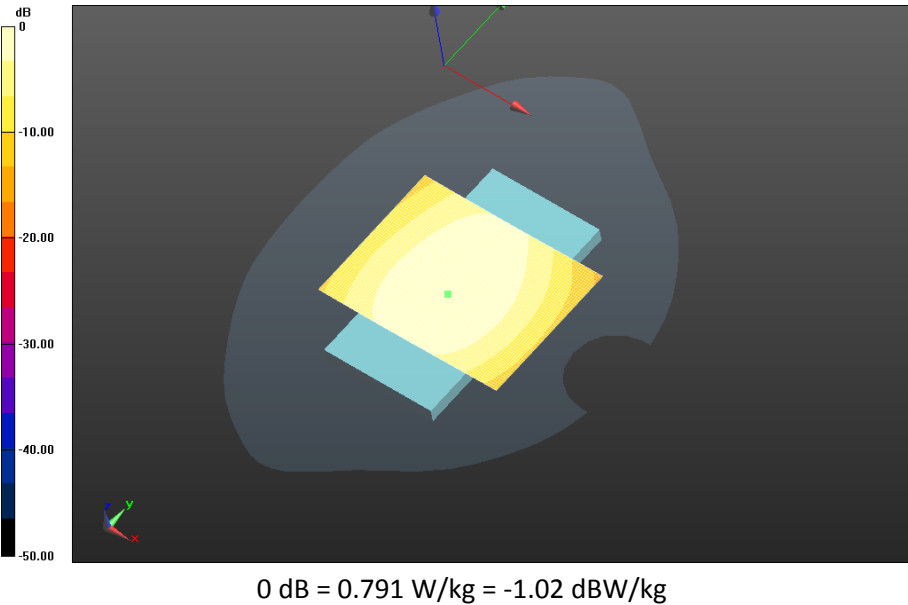
Averaged SAR: SAR(1g) = 0.829 W/kg; SAR(10g) = 0.631 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg



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Body Worn MSL - GPRS 850/15mm Device Back - GPRS 850_3-Slot_chan251_amb_temp_24.0C_liq_temp_21.6C/Area Scan (121x61x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 29.294 V/m; **Power Drift = -0.067 dB**

Fast SAR: SAR(1g) = 0.749 W/kg; SAR(10g) = 0.526 W/kg
Maximum value of SAR (interpolated) = 0.791 W/kg



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UMTS Band V

Date: 2/23/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7836

Configuration: Body Worn MSL - UMTS V

Communication System: WCDMA FDD V (0); Communication System Band: UMTS band V;

Frequency: 826.4 MHz

Medium Parameters used: $f=826.4$ MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 52.817$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (6.24,6.24,6.24); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

V_chan4132_amb_temp_24.0C_liq_temp_21.7C/Area Scan (121x71x1): Interpolated grid:

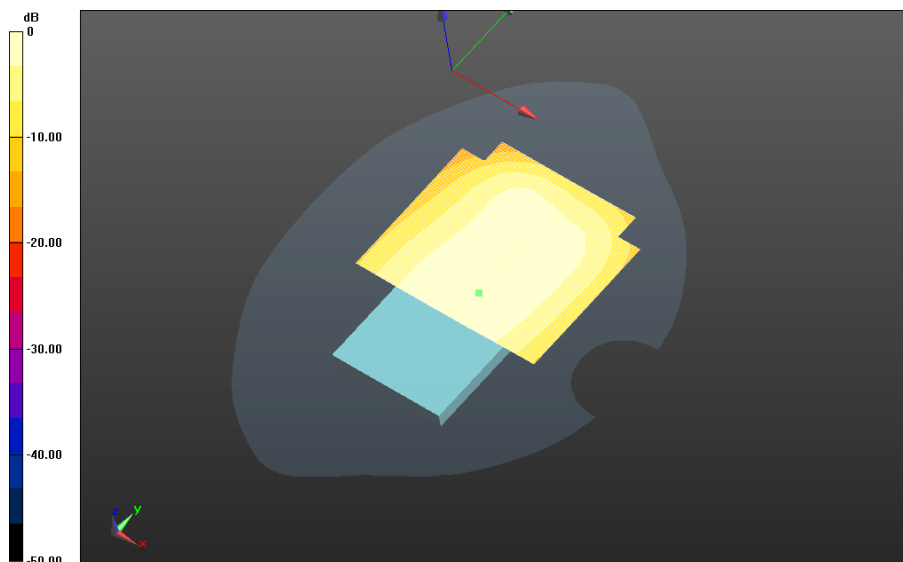
$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 21.867 V/m; **Power Drift = -0.024 dB**

Fast SAR: SAR(1g) = 0.409 W/kg; SAR(10g) = 0.289 W/kg

Maximum value of SAR (interpolated) = 0.432 W/kg

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0 dB = 0.432 W/kg = -3.65 dBW/kg

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

V_chan4182_amb_temp_24.0C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 23.050 V/m; **Power Drift = -0.037 dB**

Fast SAR: SAR(1g) = 0.511 W/kg; SAR(10g) = 0.356 W/kg

Maximum value of SAR (interpolated) = 0.544 W/kg

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

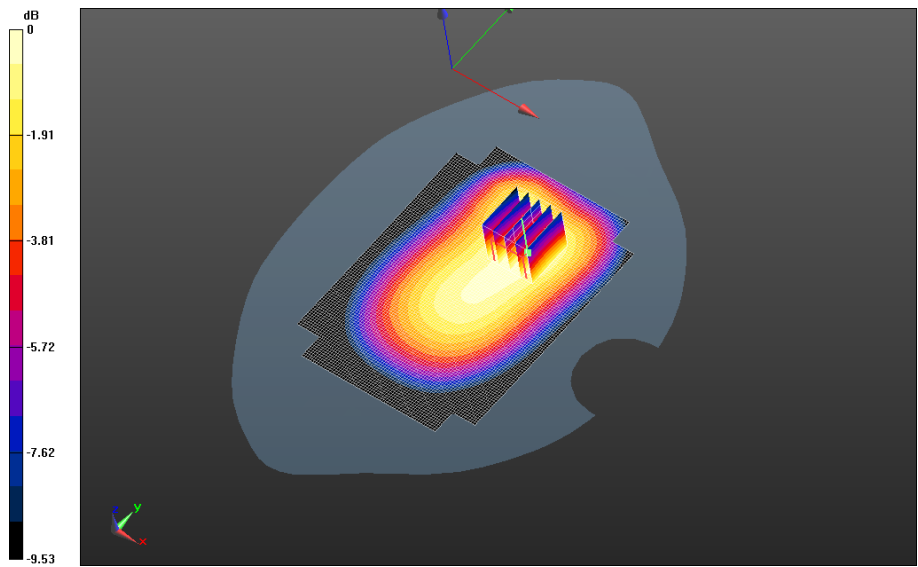
V_chan4182_amb_temp_24.0C_liq_temp_21.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated

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

Reference Value = 23.050 V/m; **Power Drift = -0.037 dB**

Averaged SAR: SAR(1g) = 0.513 W/kg; SAR(10g) = 0.373 W/kg

Maximum value of SAR (interpolated) = 0.681 W/kg



0 dB = 0.544 W/kg = -2.64 dBW/kg

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

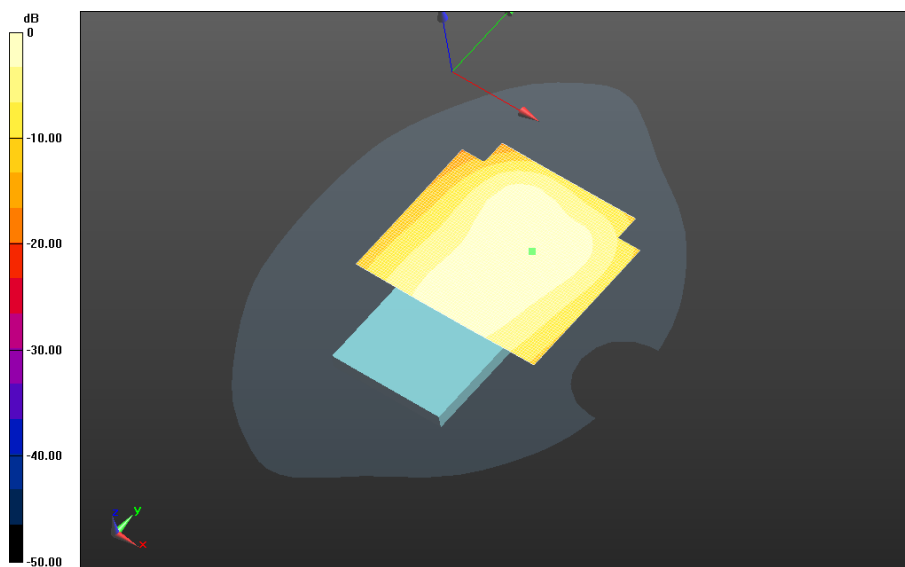
V_chan4233_amb_temp_23.6C_liq_temp_21.6C/Area Scan (121x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 19.935 V/m; **Power Drift = -0.059 dB**

Fast SAR: SAR(1g) = 0.463 W/kg; SAR(10g) = 0.319 W/kg

Maximum value of SAR (interpolated) = 0.494 W/kg

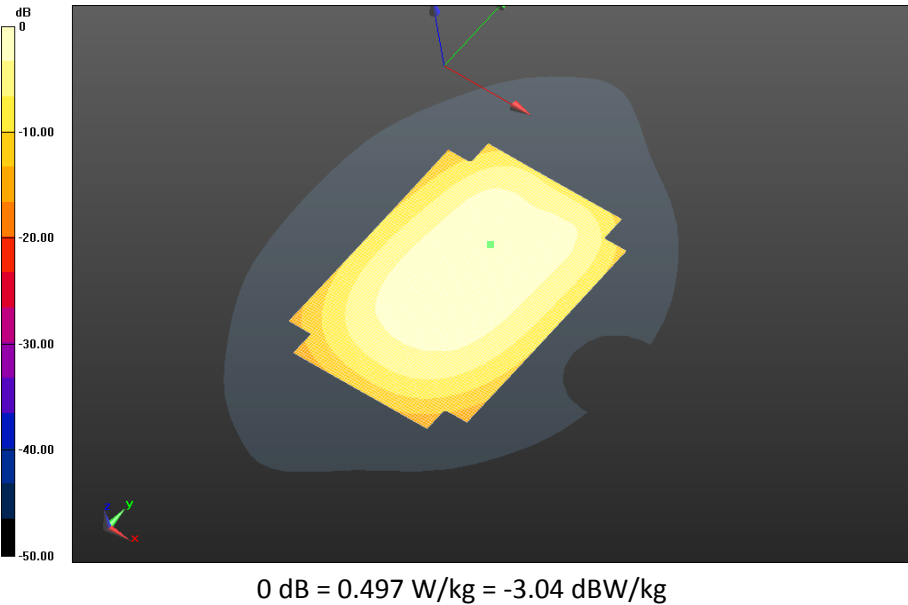


0 dB = 0.494 W/kg = -3.06 dBW/kg

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Body Worn MSL - UMTS V/15mm Device Front - UMTS
V_chan4182_amb_temp_24.0C_liq_temp_21.7C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 22.706 V/m; **Power Drift = 0.00278 dB**

Fast SAR: SAR(1g) = 0.468 W/kg; SAR(10g) = 0.330 W/kg
Maximum value of SAR (interpolated) = 0.497 W/kg



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GSM 1900

Date: 2/10/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7836

Configuration: Body Worn MSL - GPRS 1900

Communication System: GPRS 1900 (2-slots) (0); Communication System Band: GPRS 1900;

Frequency: 1909.8 MHz

Medium Parameters used: $f=1910$ MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 52.002$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900_2-

slots_chan810_amb_temp_24.0C_liq_temp_21.4C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 10.676 V/m; **Power Drift = 0.042 dB**

Fast SAR: SAR(1g) = 0.331 W/kg; SAR(10g) = 0.206 W/kg

Maximum value of SAR (interpolated) = 0.355 W/kg

Body Worn MSL - GPRS 1900/15mm Device Back -GPRS 1900_2-

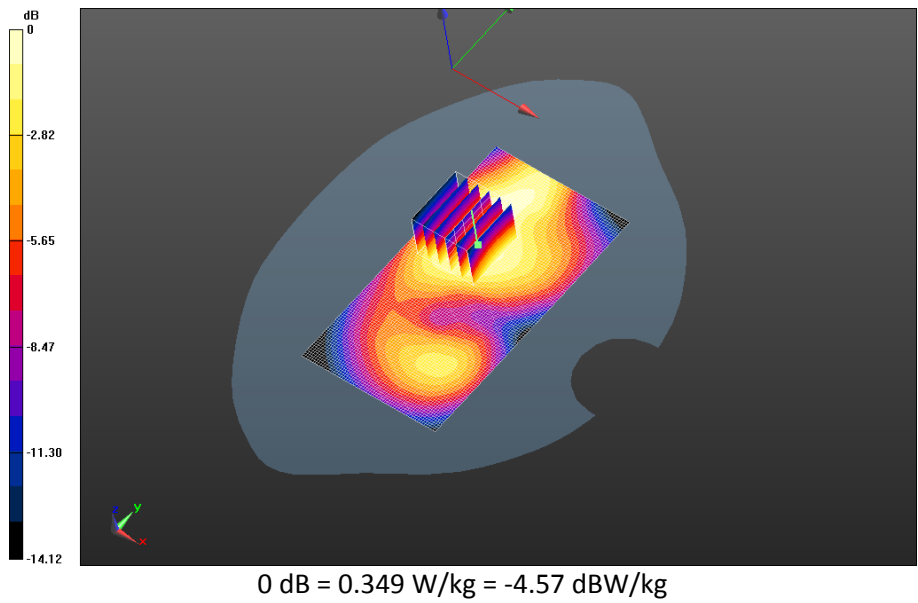
slots_chan810_amb_temp_24.0C_liq_temp_21.4C/Zoom Scan (26x26x36)/Cube 0:

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

Reference Value = 10.676 V/m; **Power Drift = 0.042 dB**

Averaged SAR: SAR(1g) = 0.329 W/kg; SAR(10g) = 0.221 W/kg

Maximum value of SAR (interpolated) = 0.459 W/kg



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UMTS Band II

Date: 2/6/2015

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFE7836

Configuration: Body Worn MSL - UMTS II

Communication System: WCDMA FDD II (0); Communication System Band: UMTS FDD II;

Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.520$ S/m; $\epsilon_r = 52.149$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF: (4.59,4.59,4.59); Calibrated: 3/10/2014;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

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

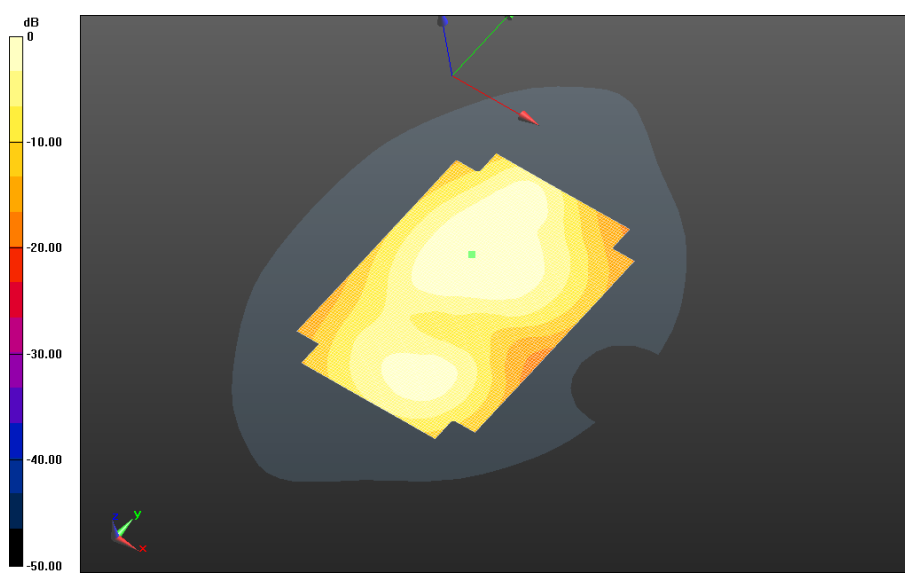
II_chan9262_amb_temp_23.6C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.851 V/m; **Power Drift = -0.051 dB**

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

Maximum value of SAR (interpolated) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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

II_chan9400_amb_temp_23.5C_liq_temp_21.1C/Area Scan (71x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 15.482 V/m; **Power Drift = 0.115 dB**

Fast SAR: SAR(1g) = 0.506 W/kg; SAR(10g) = 0.314 W/kg

Maximum value of SAR (interpolated) = 0.545 W/kg

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

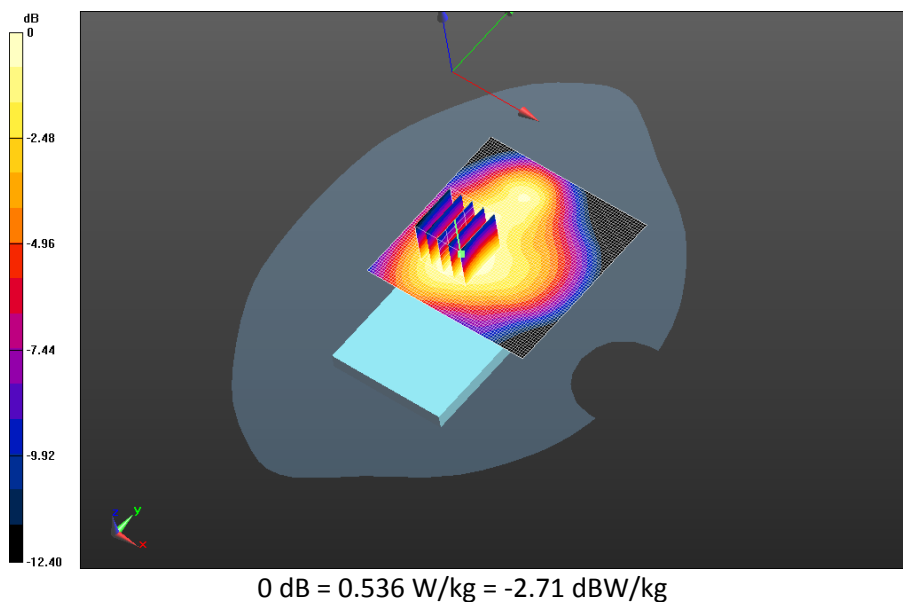
II_chan9400_amb_temp_23.5C_liq_temp_21.1C/Zoom Scan (21x21x36)/Cube 0: Interpolated

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

Reference Value = 15.482 V/m; **Power Drift = 0.115 dB**

Averaged SAR: SAR(1g) = 0.504 W/kg; SAR(10g) = 0.343 W/kg

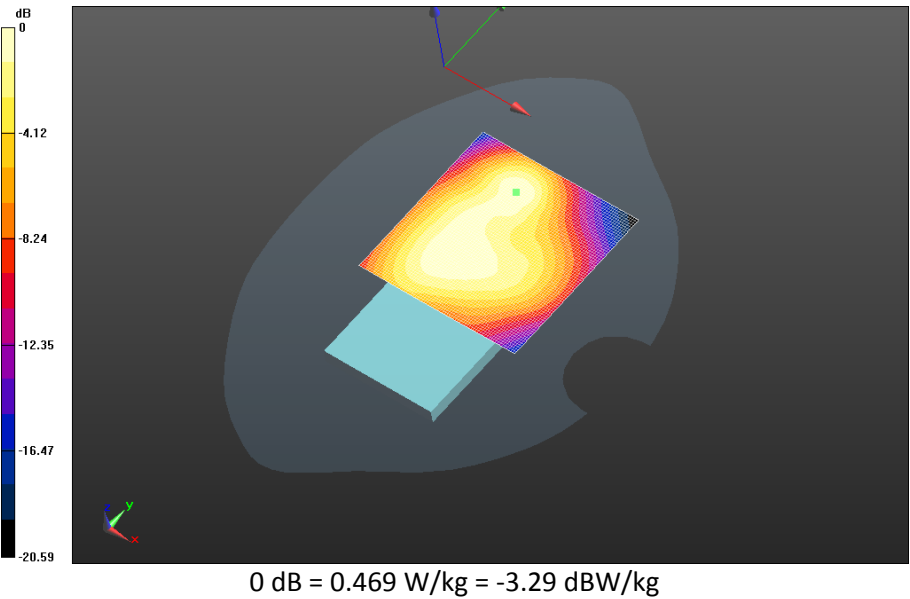
Maximum value of SAR (interpolated) = 0.687 W/kg



Body Worn MSL - UMTS II/15mm Device Back - UMTS
II_chan9538_amb_temp_23.6C_liq_temp_21.1C/Area Scan (71x71x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 14.834 V/m; **Power Drift = 0.035 dB**

Fast SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.263 W/kg
Maximum value of SAR (interpolated) = 0.469 W/kg



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

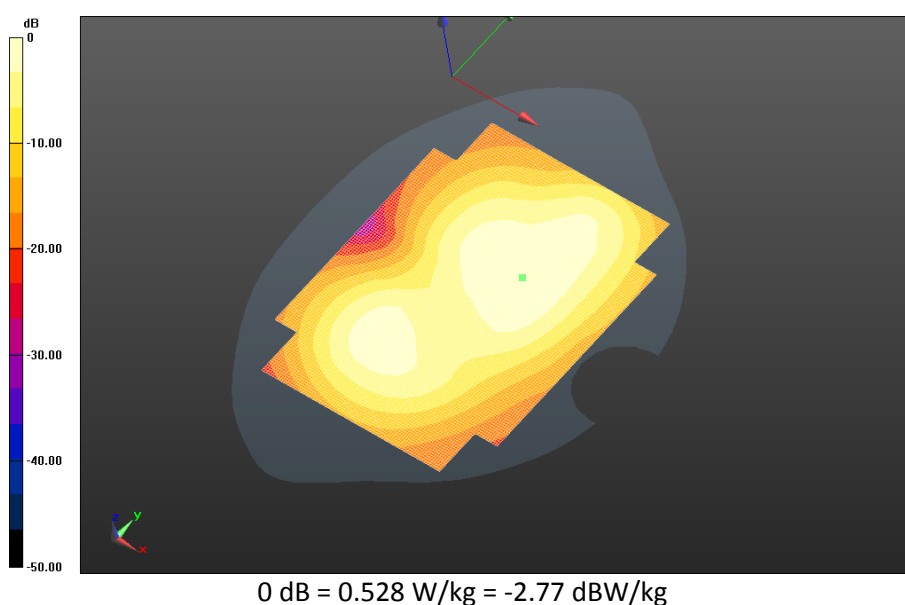
II_chan9400_amb_temp_23.8C_liq_temp_21.1C/Area Scan (121x171x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 13.899 V/m; **Power Drift = -0.042 dB**

Fast SAR: SAR(1g) = 0.495 W/kg; SAR(10g) = 0.310 W/kg

Maximum value of SAR (interpolated) = 0.528 W/kg

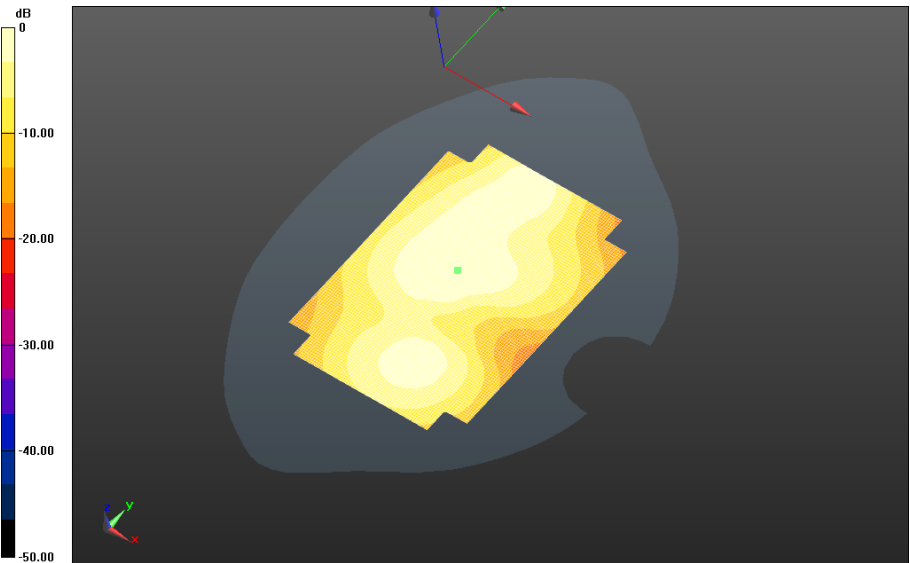


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Body Worn MSL - UMTS II/Holster Device Back - UMTS
II_chan9400_amb_temp_23.6C_liq_temp_21.2C/Area Scan (121x171x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 15.581 V/m; **Power Drift = -0.169 dB**

Fast SAR: SAR(1g) = 0.363 W/kg; SAR(10g) = 0.224 W/kg
Maximum value of SAR (interpolated) = 0.387 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg