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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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DTM/GSM 850

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Date: 6/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Right-Hand-Side HSL - DTM 850

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

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 41.382$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.142 V/m; **Power Drift = 0.153 dB**

Right-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

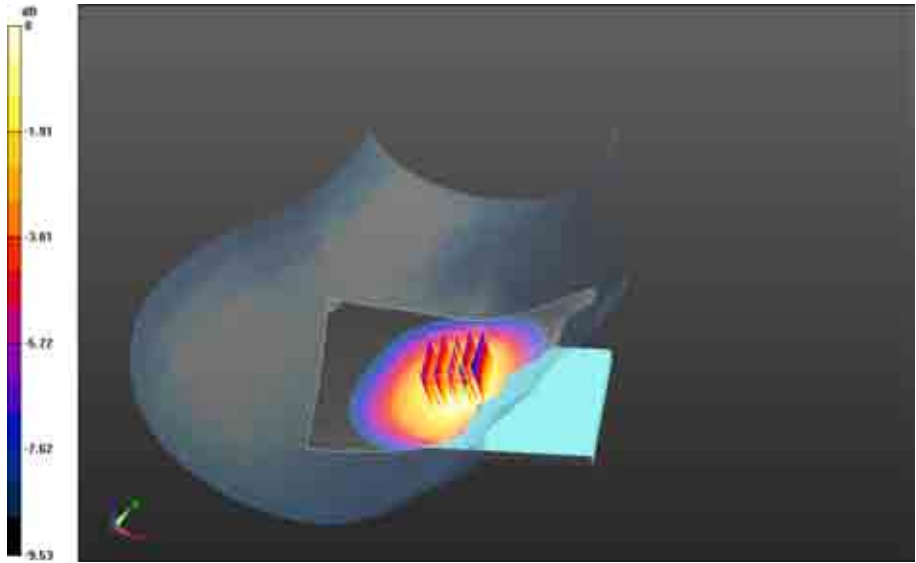
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.142 V/m; **Power Drift = 0.153 dB**

Averaged SAR: SAR(1g) = 0.309 W/kg; SAR(10g) = 0.241 W/kg

Maximum value of SAR (interpolated) = 0.372 W/kg

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0 dB = 0.333 W/kg = -4.78 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position -

DTM850_chan190_amb_temp_23.3C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.590 V/m; **Power Drift = 0.177 dB**

Right-Hand-Side HSL - DTM 850/Touch Position -

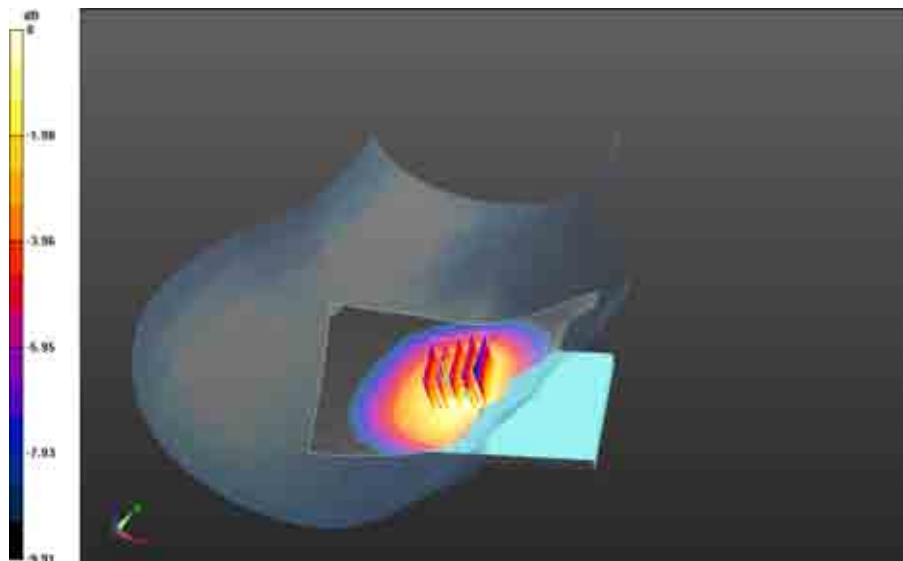
DTM850_chan190_amb_temp_23.3C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 6.590 V/m; **Power Drift = 0.177 dB**

Averaged SAR: SAR(1g) = 0.363 W/kg; SAR(10g) = 0.282 W/kg

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



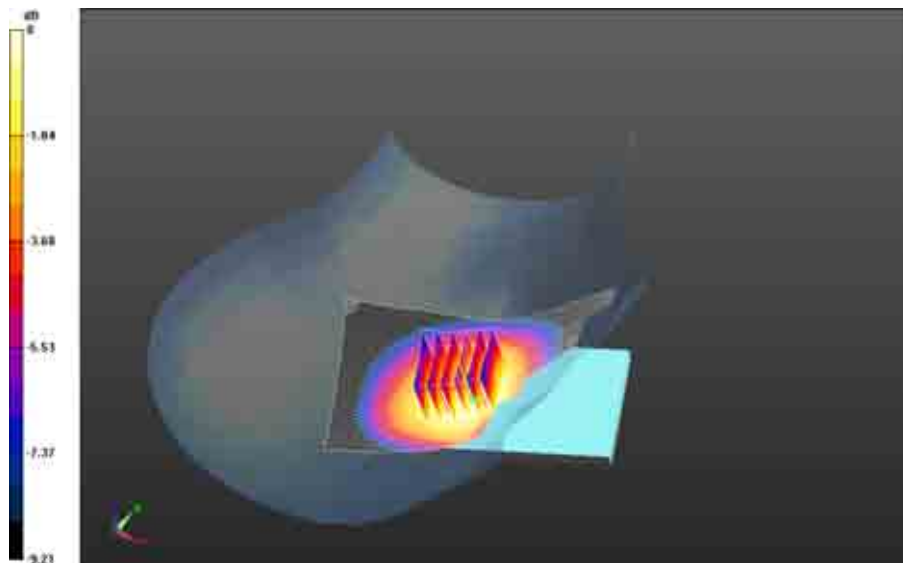
0 dB = 0.333 W/kg = -4.78 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 9.252 V/m; **Power Drift = -0.047 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.0C_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 = 9.252 V/m; **Power Drift = -0.047 dB**

Averaged SAR: SAR(1g) = 0.405 W/kg; SAR(10g) = 0.318 W/kg
Maximum value of SAR (interpolated) = 0.486 W/kg



0 dB = 0.390 W/kg = -4.09 dBW/kg

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Right-Hand-Side HSL - DTM 850/Tilt Position -

DTM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.226 V/m; **Power Drift = -0.037 dB**

Right-Hand-Side HSL - DTM 850/Tilt Position -

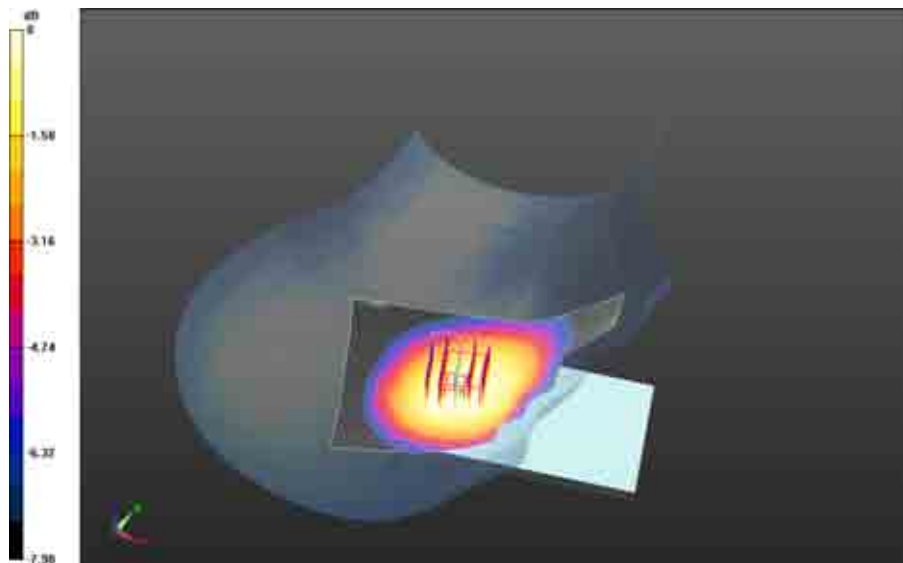
DTM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 11.226 V/m; **Power Drift = -0.037 dB**

Averaged SAR: SAR(1g) = 0.200 W/kg; SAR(10g) = 0.156 W/kg

Maximum value of SAR (interpolated) = 0.244 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

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Date: 6/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Left-Hand-Side HSL - DTM 850

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

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 41.382$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 850/Touch Position -

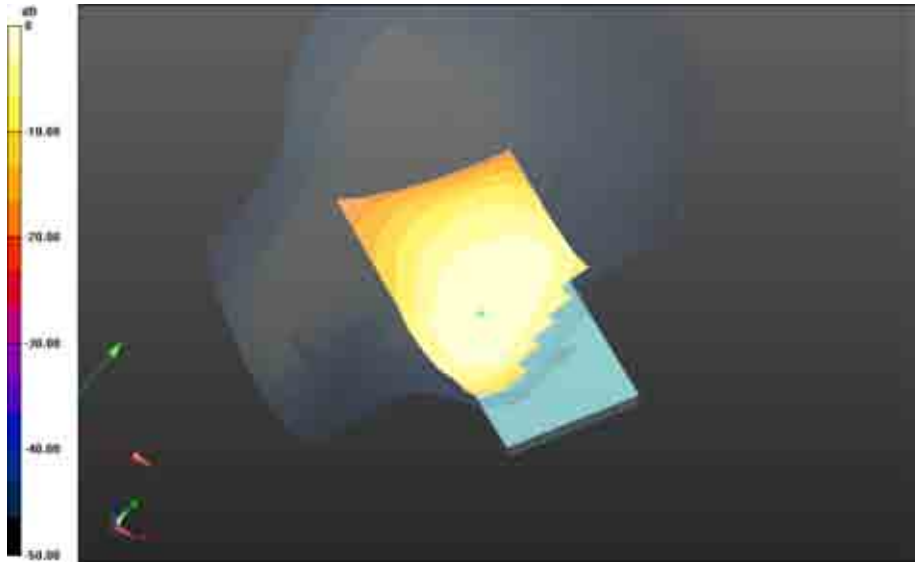
GSM850_chan190_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.828 V/m; **Power Drift = 0.063 dB**

Fast SAR: SAR(1g) = 0.360 W/kg; SAR(10g) = 0.248 W/kg

Maximum value of SAR (interpolated) = 0.411 W/kg

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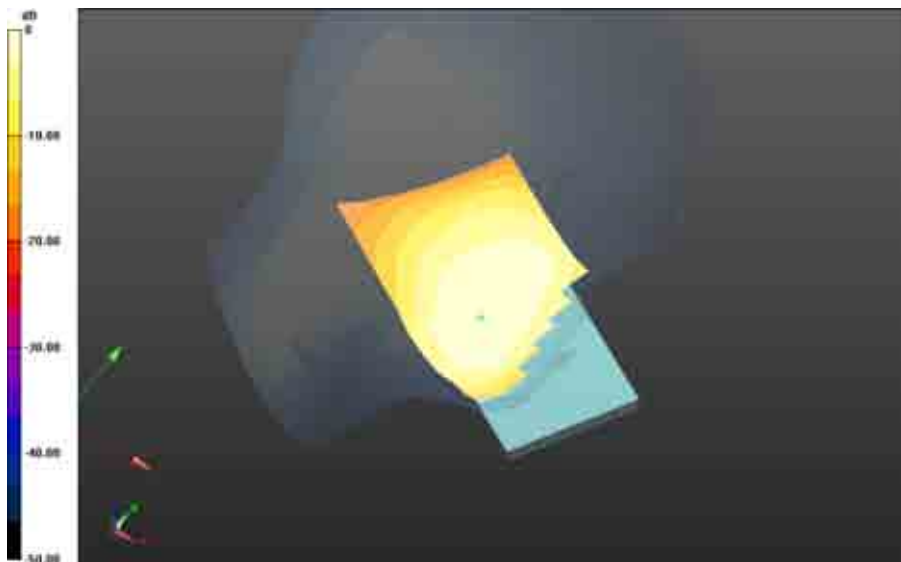


0 dB = 0.411 W/kg = -3.86 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position -
DTM850_chan190_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.486 V/m; **Power Drift = -0.048 dB**

Fast SAR: SAR(1g) = 0.414 W/kg; SAR(10g) = 0.284 W/kg
Maximum value of SAR (interpolated) = 0.473 W/kg



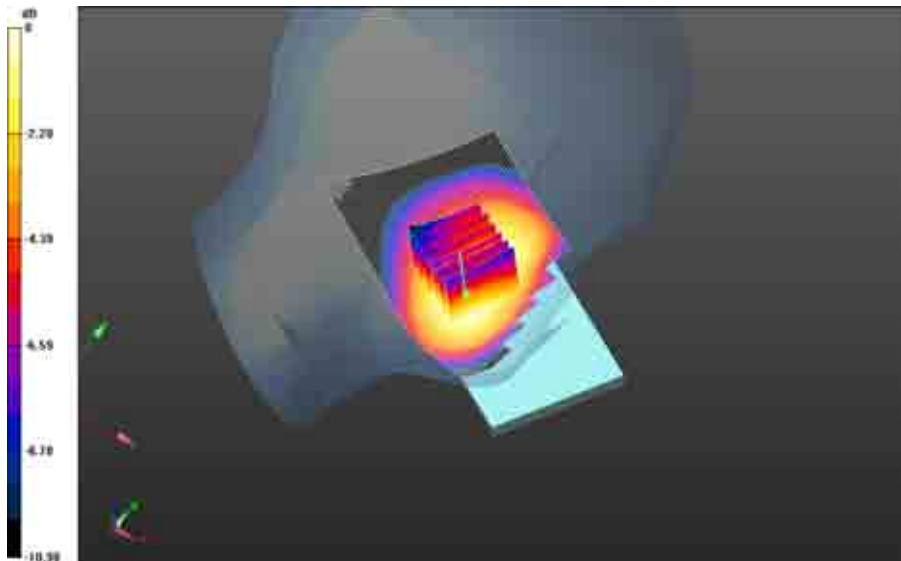
0 dB = 0.411 W/kg = -3.86 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 8.934 V/m; **Power Drift = -0.101 dB**

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_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 = 8.934 V/m; **Power Drift = -0.101 dB**

Averaged SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.351 W/kg
Maximum value of SAR (interpolated) = 0.620 W/kg

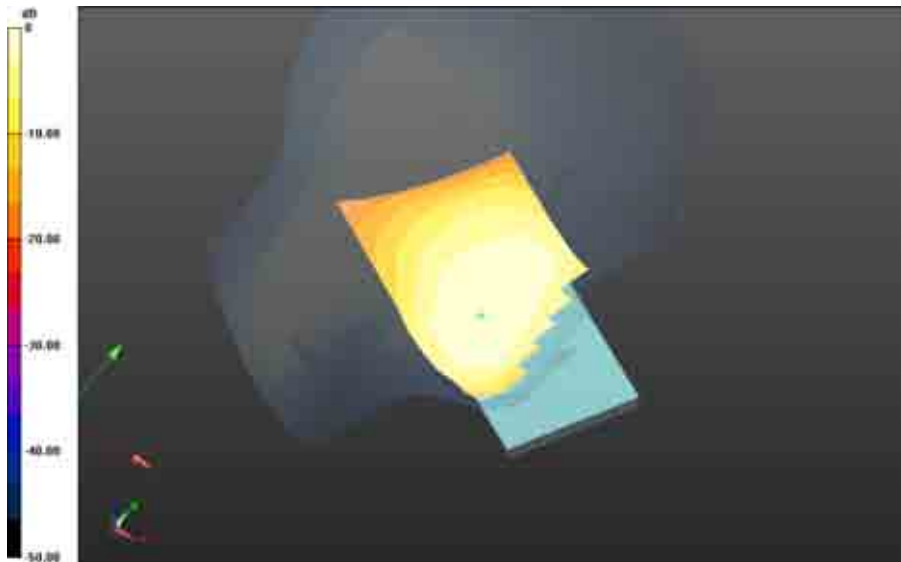


0 dB = 0.473 W/kg = -3.25 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position - EDGE850_4-Slots_chan190_amb_temp_22.7C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 8.740 V/m; **Power Drift = -0.175 dB**

Fast SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.292 W/kg
Maximum value of SAR (interpolated) = 0.485 W/kg



0 dB = 0.518 W/kg = -2.86 dBW/kg

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Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

Slots_chan190_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 12.822 V/m; **Power Drift = -0.046 dB**

Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

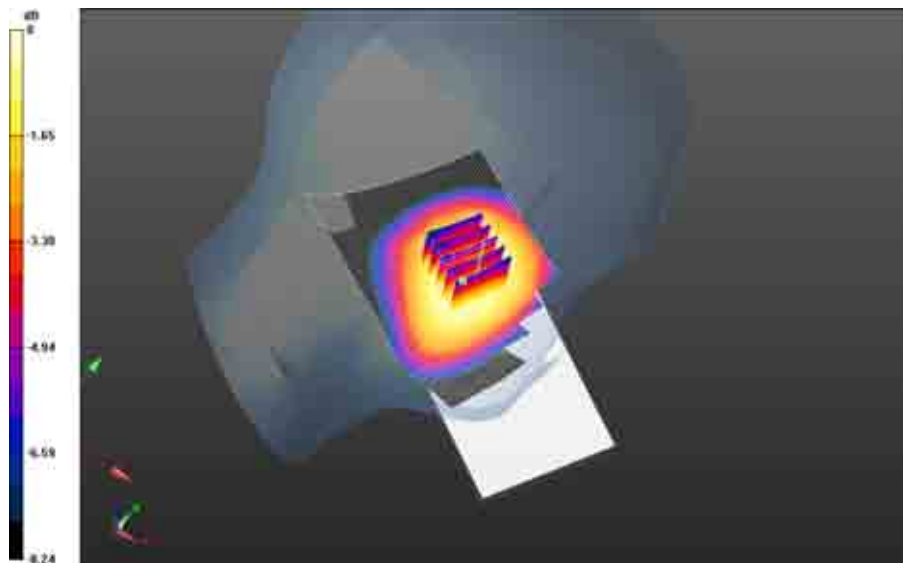
Slots_chan190_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 12.822 V/m; **Power Drift = -0.046 dB**

Averaged SAR: SAR(1g) = 0.274 W/kg; SAR(10g) = 0.213 W/kg

Maximum value of SAR (interpolated) = 0.335 W/kg



0 dB = 0.485 W/kg = -3.14 dBW/kg

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Date: 6/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - DTM 850

Communication System: DTM 850 (3 slots); Communication System Band: DTM 850 (3 slots);

Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 40.671$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-

Slots_chan190_amb_temp_22.8C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.385 W/kg

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-

Slots_chan190_amb_temp_22.8C_liq_temp_22.6C/Zoom Scan (26x26x36)/Cube 0:

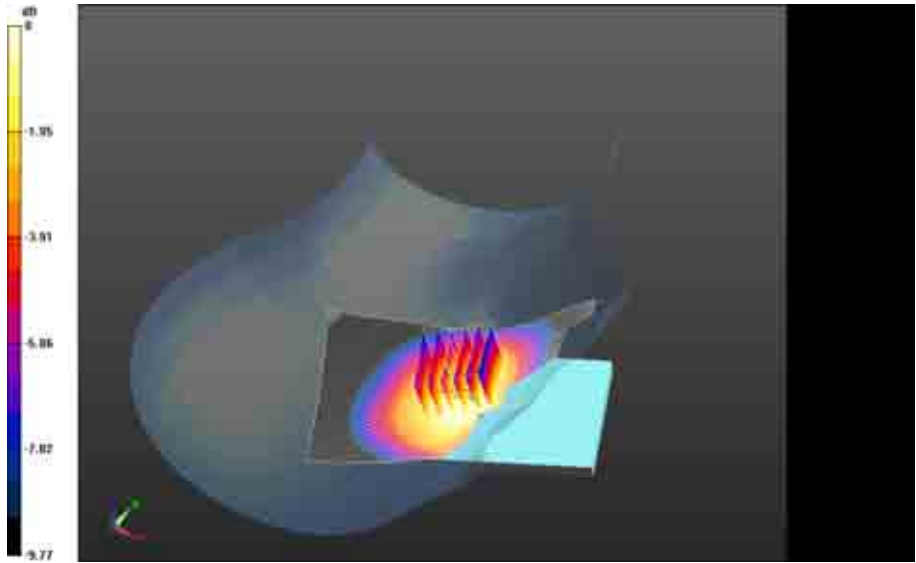
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 6.755 V/m; **Power Drift = -0.133 dB**

Averaged SAR: SAR(1g) = 0.350 W/kg; SAR(10g) = 0.273 W/kg

Maximum value of SAR (interpolated) = 0.418 W/kg

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0 dB = 0.375 W/kg = -4.26 dBW/kg

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Date: 6/27/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - DTM 850

Communication System: DTM 850 (3 slots); Communication System Band: DTM 850 (3 slots);

Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 40.671$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-

Slots_chan190_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:

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

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

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-

Slots_chan190_amb_temp_23.3C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0:

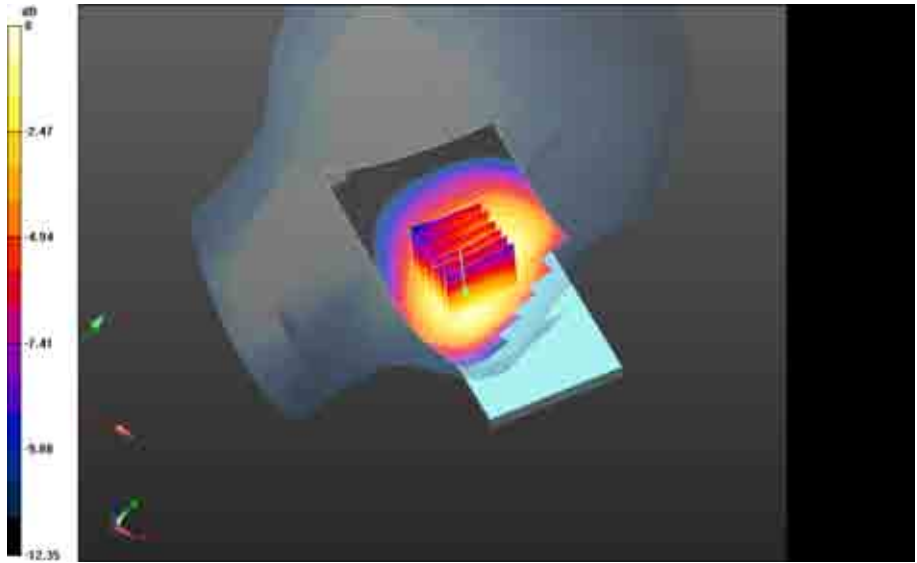
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 6.964 V/m; **Power Drift = 0.022 dB**

Averaged SAR: SAR(1g) = 0.349 W/kg; SAR(10g) = 0.265 W/kg

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

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

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UMTS Band V

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Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Right-Hand-Side HSL - 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; $\sigma = 0.891$ S/m; $\epsilon_r = 41.386$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.781 V/m; **Power Drift = -0.127 dB**

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

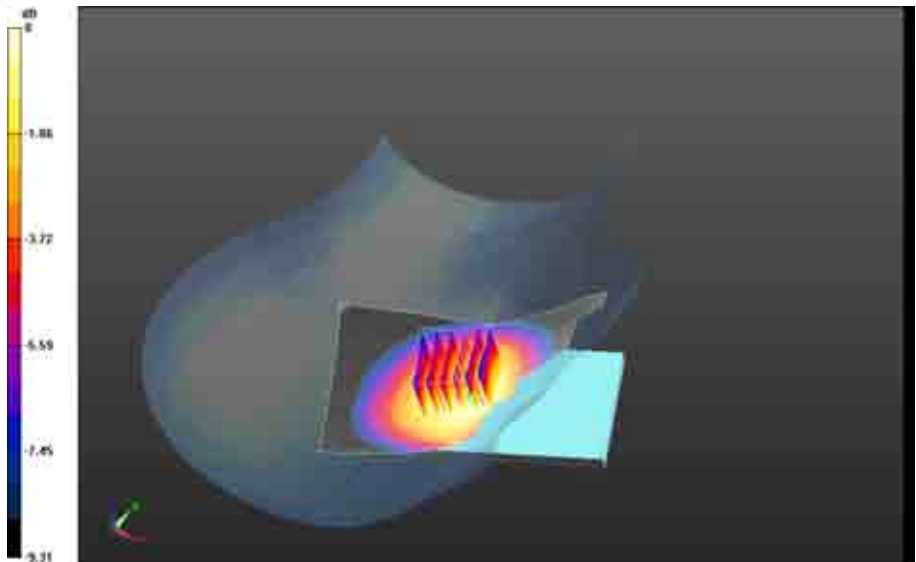
_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.781 V/m; **Power Drift = -0.127 dB**

Averaged SAR: SAR(1g) = 0.247 W/kg; SAR(10g) = 0.195 W/kg

Maximum value of SAR (interpolated) = 0.297 W/kg

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0 dB = 0.266 W/kg = -5.75 dBW/kg

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Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 9.890 V/m; **Power Drift = -0.028 dB**

Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

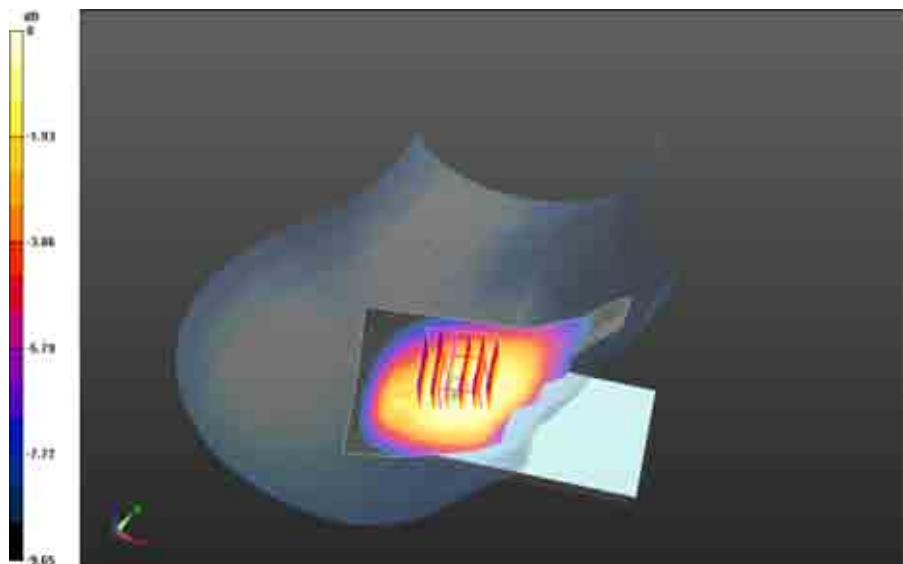
V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated

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

Reference Value = 9.890 V/m; **Power Drift = -0.028 dB**

Averaged SAR: SAR(1g) = 0.160 W/kg; SAR(10g) = 0.124 W/kg

Maximum value of SAR (interpolated) = 0.197 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

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Date: 6/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Left-Hand-Side HSL - 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; $\sigma = 0.891$ S/m; $\epsilon_r = 41.386$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:

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

Reference Value = 6.433 V/m; **Power Drift = 0.109 dB**

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated

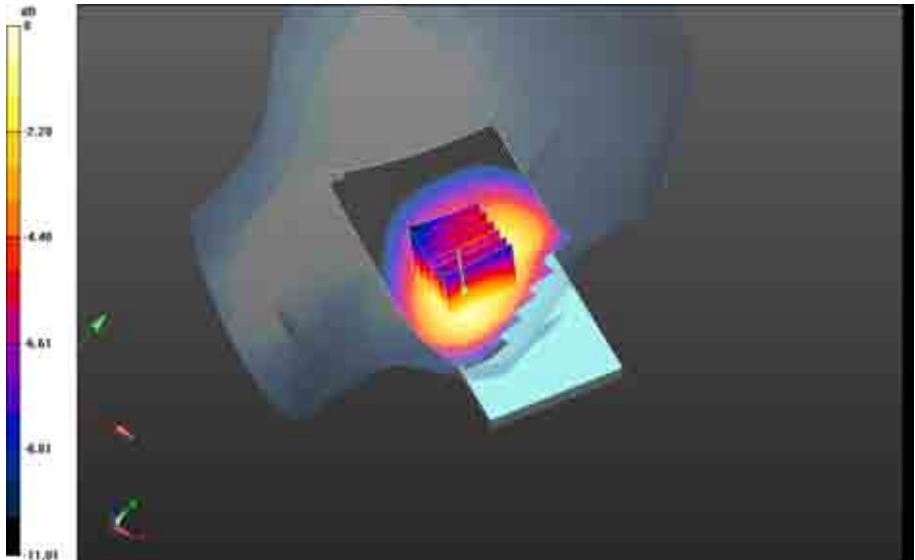
grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 6.433 V/m; **Power Drift = 0.109 dB**

Averaged SAR: SAR(1g) = 0.341 W/kg; SAR(10g) = 0.250 W/kg

Maximum value of SAR (interpolated) = 0.456 W/kg

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0 dB = 0.381 W/kg = -4.19 dBW/kg

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Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39 Rev 3	FCC ID: L6ARGB140LW	IC

Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

V_chan4182_amb_temp_23.4C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 10.823 V/m; **Power Drift = 0.045 dB**

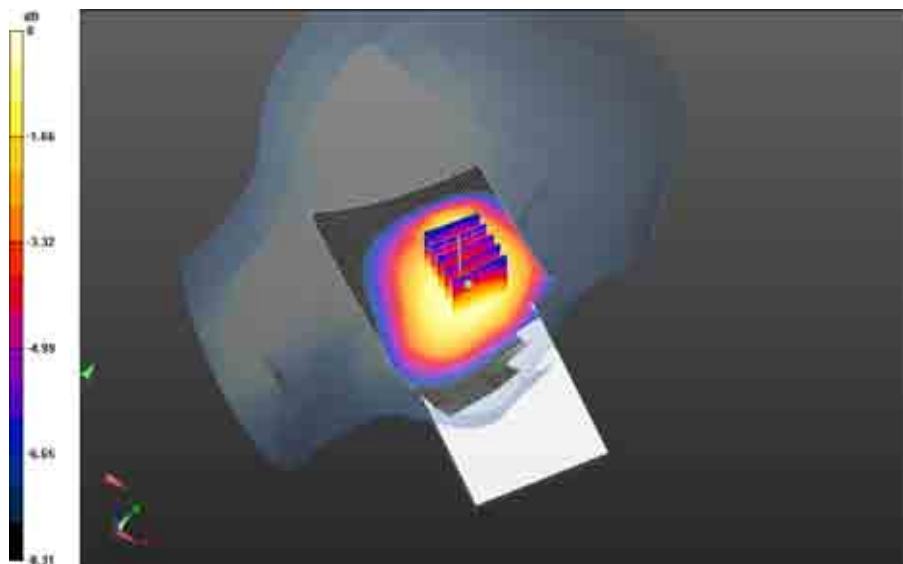
Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

V_chan4182_amb_temp_23.4C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.823 V/m; **Power Drift = 0.045 dB**

Averaged SAR: SAR(1g) = 0.188 W/kg; SAR(10g) = 0.146 W/kg

Maximum value of SAR (interpolated) = 0.232 W/kg



0 dB = 0.381 W/kg = -4.19 dBW/kg

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Author Data Andrew Becker	Dates of Test June 11 – August 16,2013	Test Report No RTS-6046-1308-39 Rev 3	FCC ID: L6ARGB140LW	IC

Date: 6/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671

Configuration: Right-Hand-Side HSL - 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; $\sigma = 0.880$ S/m; $\epsilon_r = 40.678$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0951 W/kg

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

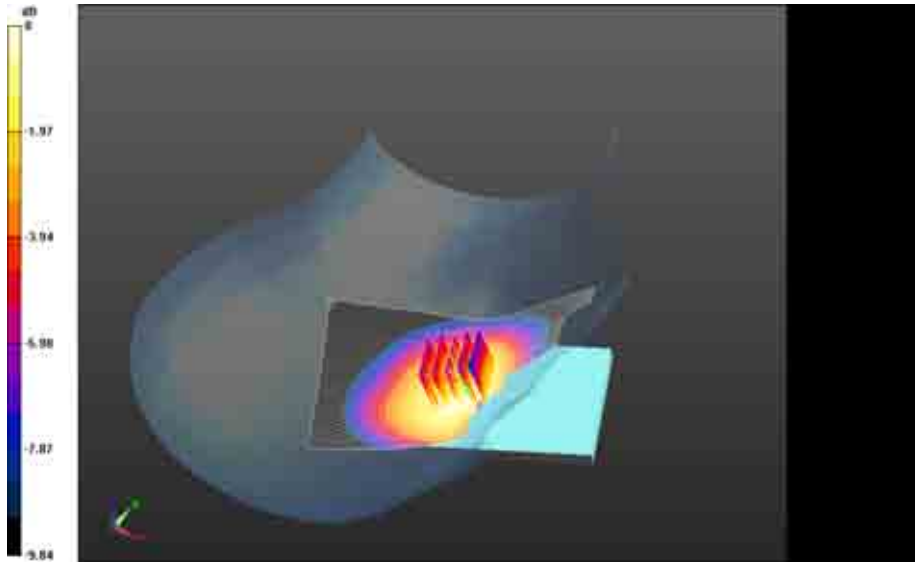
_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 3.556 V/m; **Power Drift = 0.068 dB**

Averaged SAR: SAR(1g) = 0.0867 W/kg; SAR(10g) = 0.0673 W/kg

Maximum value of SAR (interpolated) = 0.105 W/kg

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0 dB = 0.0930 W/kg = -10.32 dBW/kg

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Date: 6/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671

Configuration: Left-Hand-Side HSL - 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; $\sigma = 0.880$ S/m; $\epsilon_r = 40.678$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.119 W/kg

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

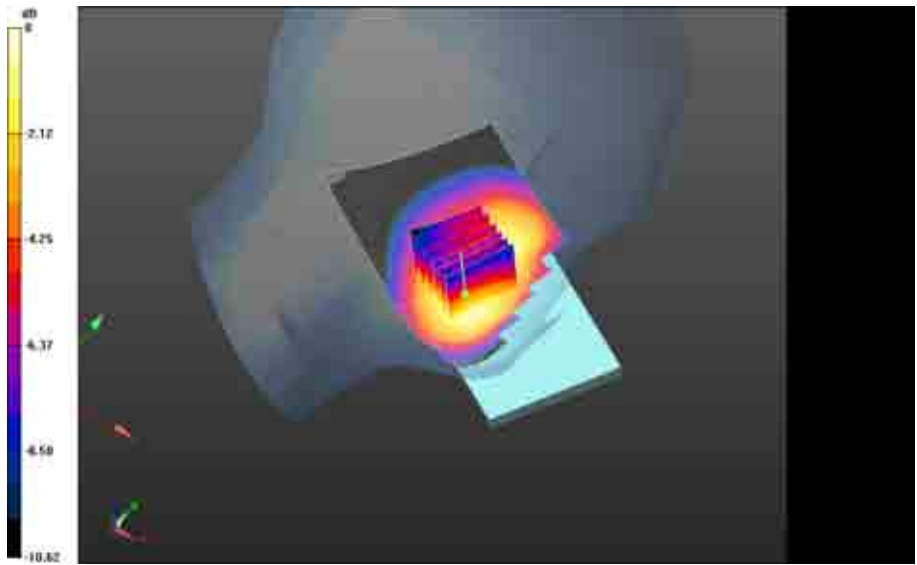
V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 3.384 V/m; **Power Drift = -0.180 dB**

Averaged SAR: SAR(1g) = 0.105 W/kg; SAR(10g) = 0.0769 W/kg

Maximum value of SAR (interpolated) = 0.141 W/kg

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

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CDMA 800

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Date: 6/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - CDMA 800 BC10

Communication System: CDMA 800; Communication System Band: CDMA 2000 BC 10;

Frequency: 820.5 MHz

Medium Parameters used: $f=820.5$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 40.838$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - CDMA 800 BC10/Touch Position - CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:

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

Reference Value = 7.091 V/m; **Power Drift = 0.093 dB**

Right-Hand-Side HSL - CDMA 800 BC10/Touch Position - CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (26x26x36)/Cube 0:

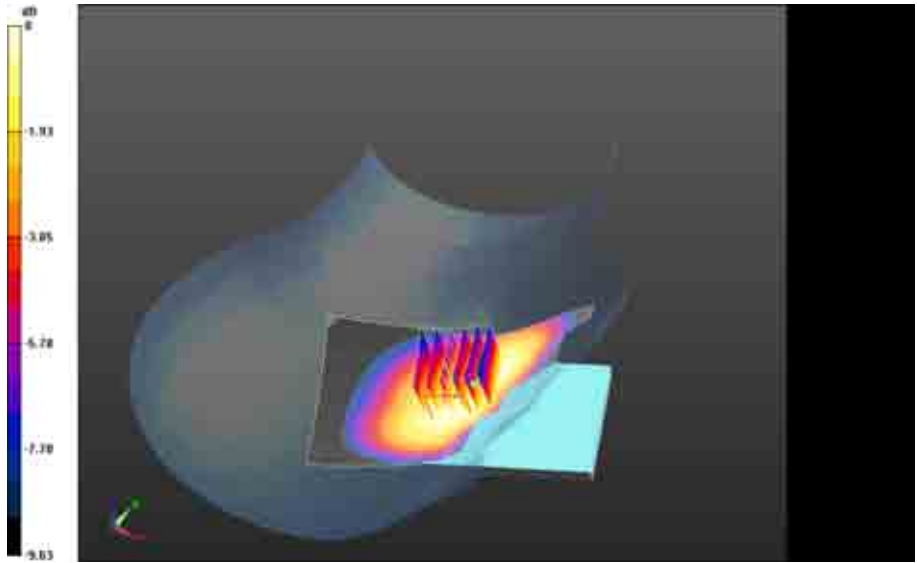
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 7.091 V/m; **Power Drift = 0.093 dB**

Averaged SAR: SAR(1g) = 0.306 W/kg; SAR(10g) = 0.237 W/kg

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

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0 dB = 0.335 W/kg = -4.75 dBW/kg

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Right-Hand-Side HSL - CDMA 800 BC10/Tilt Position -CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 10.241 V/m; **Power Drift = 0.255 dB**

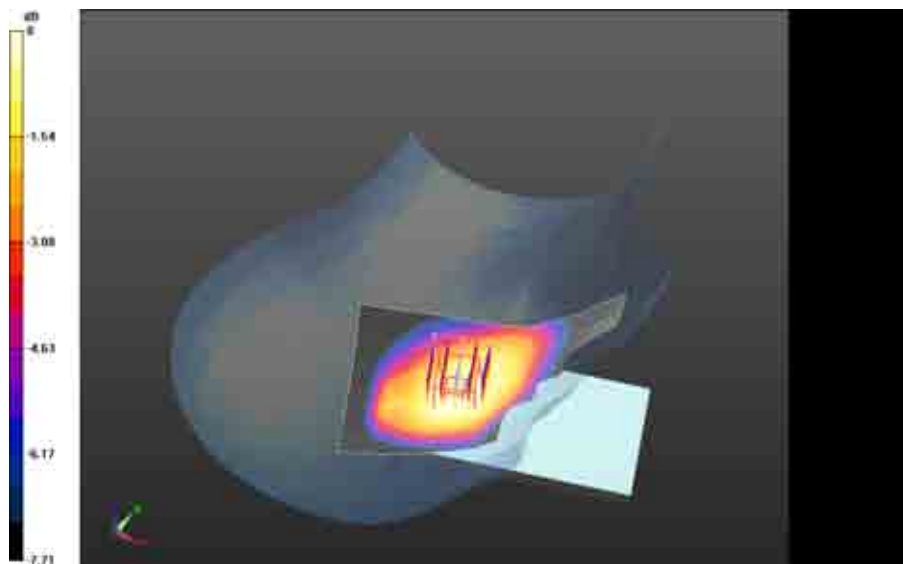
Right-Hand-Side HSL - CDMA 800 BC10/Tilt Position -CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.241 V/m; **Power Drift = 0.255 dB**

Averaged SAR: SAR(1g) = 0.182 W/kg; SAR(10g) = 0.142 W/kg

Maximum value of SAR (interpolated) = 0.222 W/kg



0 dB = 0.335 W/kg = -4.75 dBW/kg

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Date: 6/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - CDMA 800 BC10

Communication System: CDMA 800; Communication System Band: CDMA 2000 BC 10;

Frequency: 820.5 MHz

Medium Parameters used: $f=820.5$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 40.838$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - CDMA 800 BC10/Touch Position -CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:

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

Reference Value = 6.046 V/m; **Power Drift = 0.128 dB**

Left-Hand-Side HSL - CDMA 800 BC10/Touch Position -CDMA 800

BC10_chan580_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

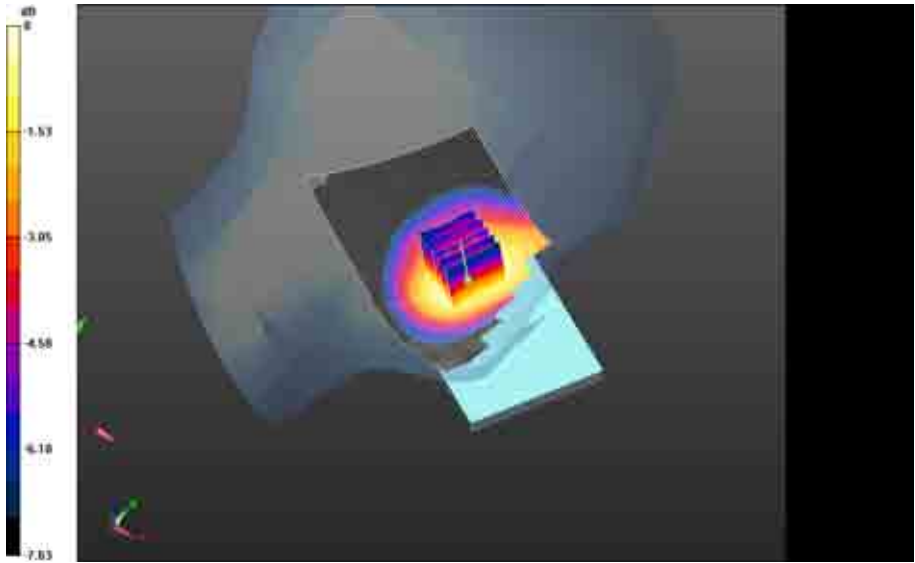
Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 6.046 V/m; **Power Drift = 0.128 dB**

Averaged SAR: SAR(1g) = 0.275 W/kg; SAR(10g) = 0.216 W/kg

Maximum value of SAR (interpolated) = 0.328 W/kg

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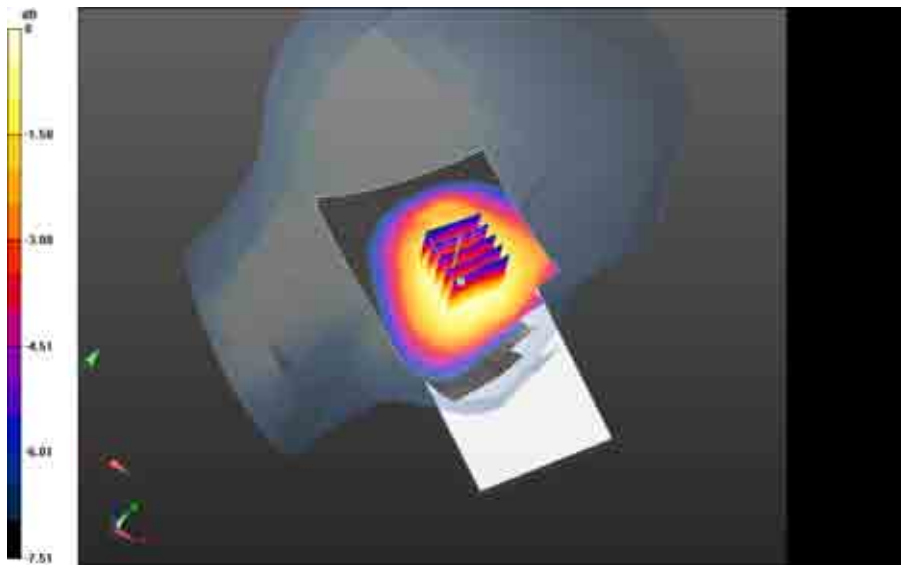
0 dB = 0.297 W/kg = -5.27 dBW/kg

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**Left-Hand-Side HSL - CDMA 800 BC10/Tilt Position -CDMA 800 BC10_chan580
_amb_temp_23.5C_liq_temp_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm
Reference Value = 10.478 V/m; **Power Drift = -0.042 dB**

**Left-Hand-Side HSL - CDMA 800 BC10/Tilt Position -CDMA 800 BC10_chan580
_amb_temp_23.5C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid:
dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.478 V/m; **Power Drift = -0.042 dB**

Averaged SAR: SAR(1g) = 0.151 W/kg; SAR(10g) = 0.118 W/kg
Maximum value of SAR (interpolated) = 0.186 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

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CDMA 850

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Date: 6/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - CDMA 850 BC0

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular;

Frequency: 836.52 MHz

Medium Parameters used: $f=836.52$ MHz; $\sigma = 0.880$ S/m; $\epsilon_r = 40.676$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - CDMA 850 BC0/Touch Position - CDMA 850 BC0__chan384

_amb_temp_23.1C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.880 V/m; **Power Drift = -0.112 dB**

Right-Hand-Side HSL - CDMA 850 BC0/Touch Position - CDMA 850 BC0__chan384

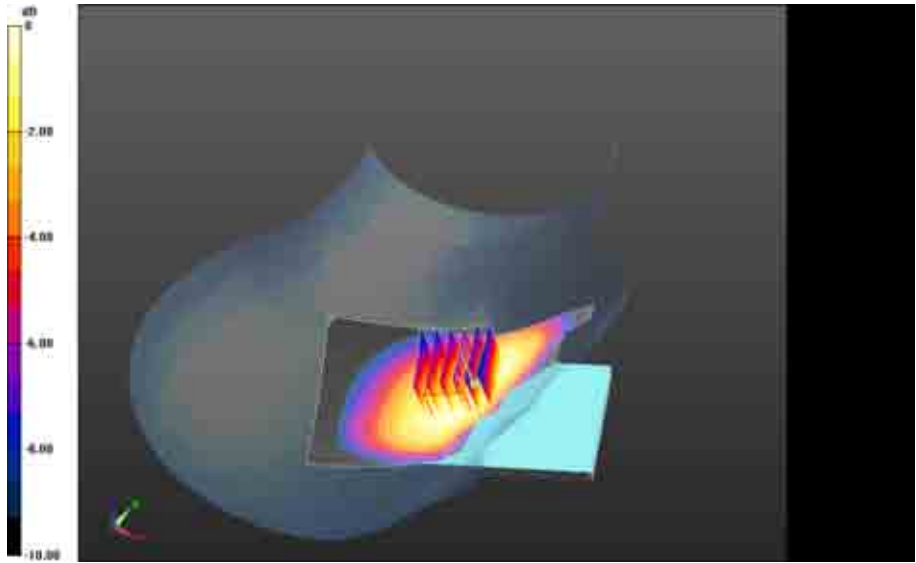
_amb_temp_23.1C_liq_temp_22.7C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.880 V/m; **Power Drift = -0.112 dB**

Averaged SAR: SAR(1g) = 0.302 W/kg; SAR(10g) = 0.233 W/kg

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

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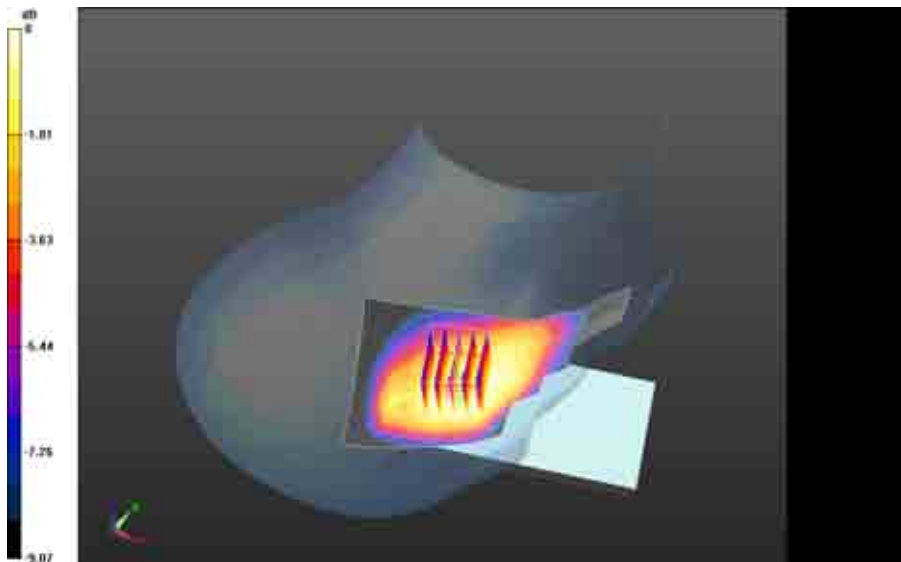
0 dB = 0.334 W/kg = -4.76 dBW/kg

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**Right-Hand-Side HSL - CDMA 850 BC0/Tilt Position -CDMA 850 BC0_chan38
_amb_temp_23.3C_liq_temp_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm
Reference Value = 10.839 V/m; **Power Drift = -0.00531 dB**

**Right-Hand-Side HSL - CDMA 850 BC0/Tilt Position -CDMA 850 BC0_chan38
_amb_temp_23.3C_liq_temp_22.7C/Zoom Scan (26x21x36)/Cube 0:** Interpolated grid:
dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.839 V/m; **Power Drift = -0.00531 dB**

Averaged SAR: SAR(1g) = 0.191 W/kg; SAR(10g) = 0.148 W/kg
Maximum value of SAR (interpolated) = 0.231 W/kg



0 dB = 0.334 W/kg = -4.76 dBW/kg

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Date: 6/26/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - CDMA 850 BC0

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular;

Frequency: 836.52 MHz

Medium Parameters used: $f=836.52$ MHz; $\sigma = 0.880$ S/m; $\epsilon_r = 40.676$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - CDMA 850 BC0/Touch Position -- CDMA 850

BC0_chan384_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:

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

Reference Value = 5.654 V/m; **Power Drift = 0.072 dB**

Left-Hand-Side HSL - CDMA 850 BC0/Touch Position -- CDMA 850

BC0_chan384_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated

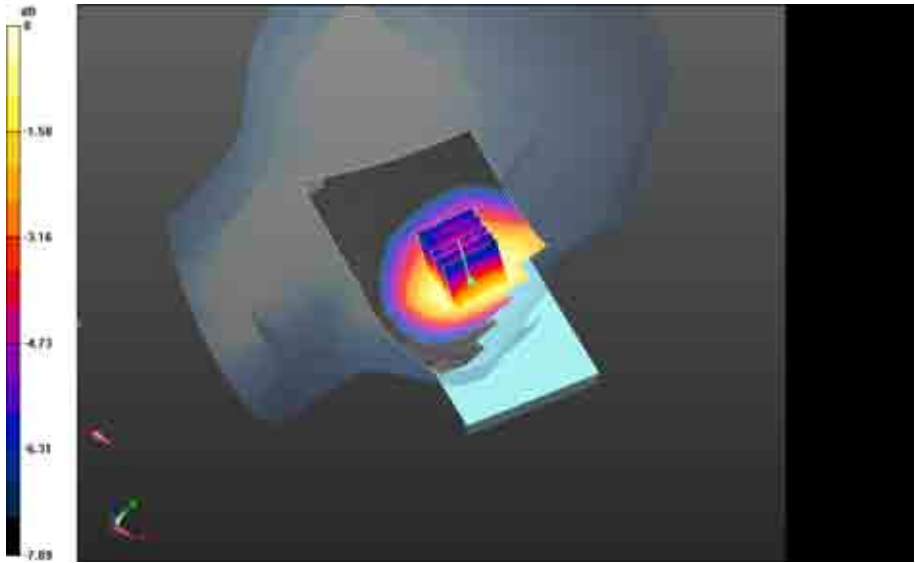
grid: $dx=1.500$ mm, $dy=1.500$ mm, $dz=1.000$ mm

Reference Value = 5.654 V/m; **Power Drift = 0.072 dB**

Averaged SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.205 W/kg

Maximum value of SAR (interpolated) = 0.315 W/kg

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0 dB = 0.283 W/kg = -5.48 dBW/kg

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Left-Hand-Side HSL - CDMA 850 BC0/Tilt Position -- CDMA 850

BC0_chan384_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 9.996 V/m; **Power Drift = 0.050 dB**

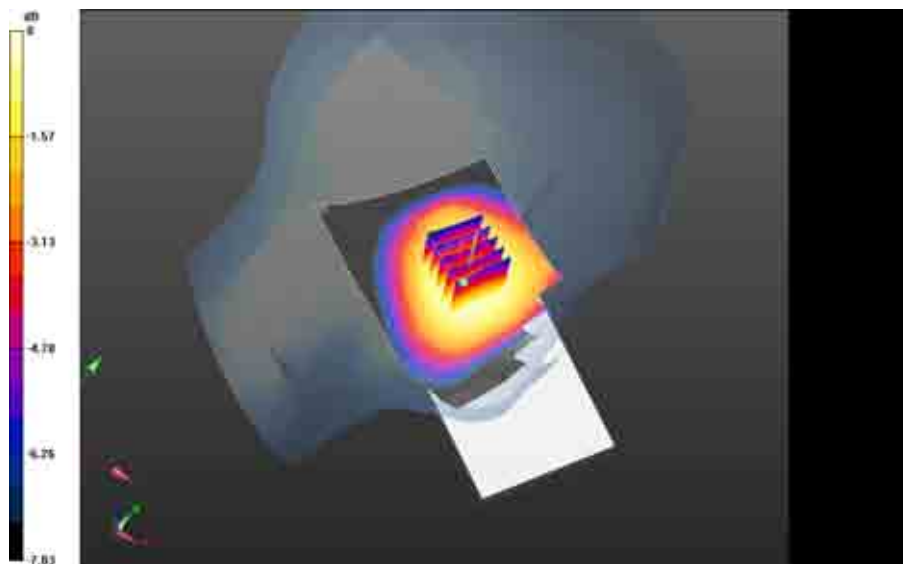
Left-Hand-Side HSL - CDMA 850 BC0/Tilt Position -- CDMA 850

BC0_chan384_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.996 V/m; **Power Drift = 0.050 dB**

Averaged SAR: SAR(1g) = 0.141 W/kg; SAR(10g) = 0.110 W/kg

Maximum value of SAR (interpolated) = 0.176 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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SVLTE 25

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Date: 7/2/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - SVLTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1882.5 MHz

Medium Parameters used: $f=1882.5$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.432$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.4C_liq_temp_22.5C/Area Scan

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

Reference Value = 3.801 V/m; **Power Drift = -0.155 dB**

Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.4C_liq_temp_22.5C/Zoom Scan

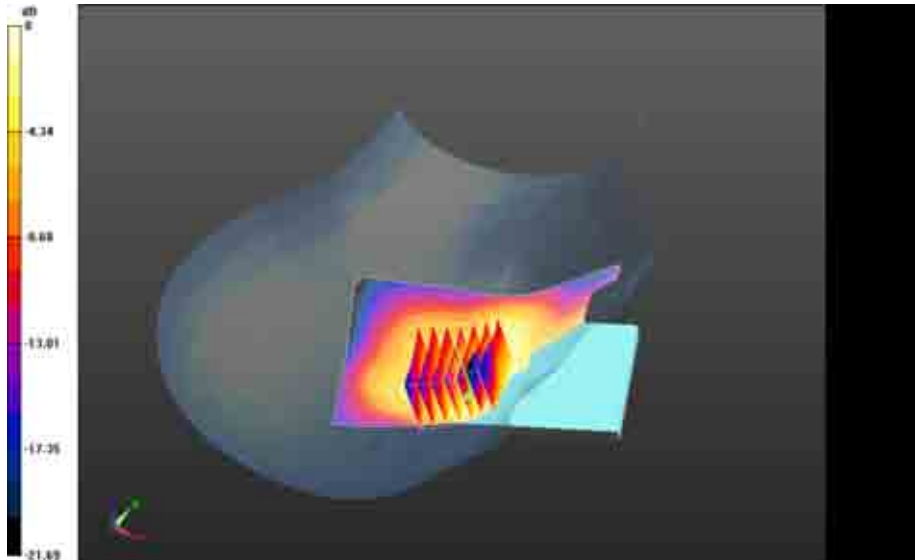
(31x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 3.801 V/m; **Power Drift = -0.155 dB**

Averaged SAR: SAR(1g) = 0.108 W/kg; SAR(10g) = 0.0681 W/kg

Maximum value of SAR (interpolated) = 0.160 W/kg

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0 dB = 0.120 W/kg = -9.21 dBW/kg

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Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.4C_liq_temp_22.5C/Area Scan

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

Reference Value = 3.355 V/m; **Power Drift = 0.153 dB**

Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

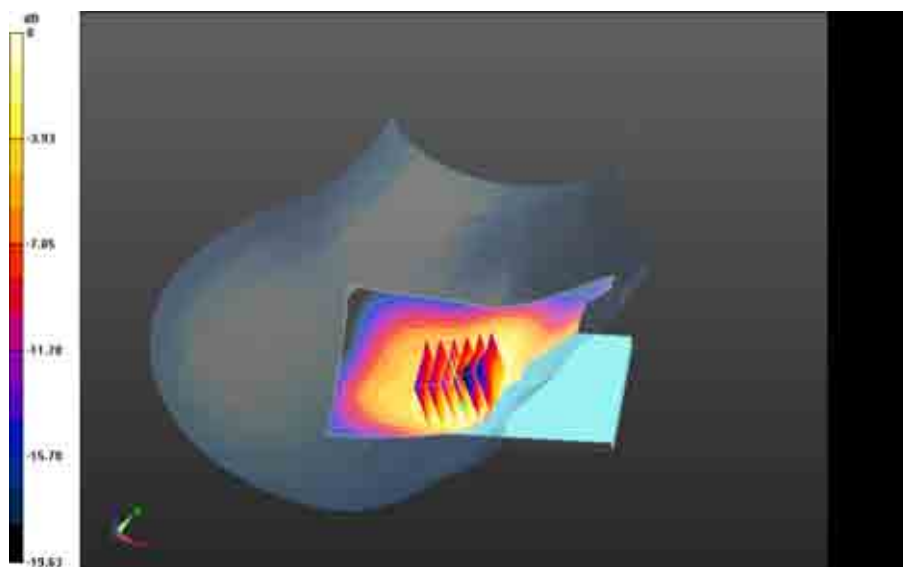
SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.4C_liq_temp_22.5C/Zoom Scan

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

Reference Value = 3.355 V/m; **Power Drift = 0.153 dB**

Averaged SAR: SAR(1g) = 0.0896 W/kg; SAR(10g) = 0.0564 W/kg

Maximum value of SAR (interpolated) = 0.131 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

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Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

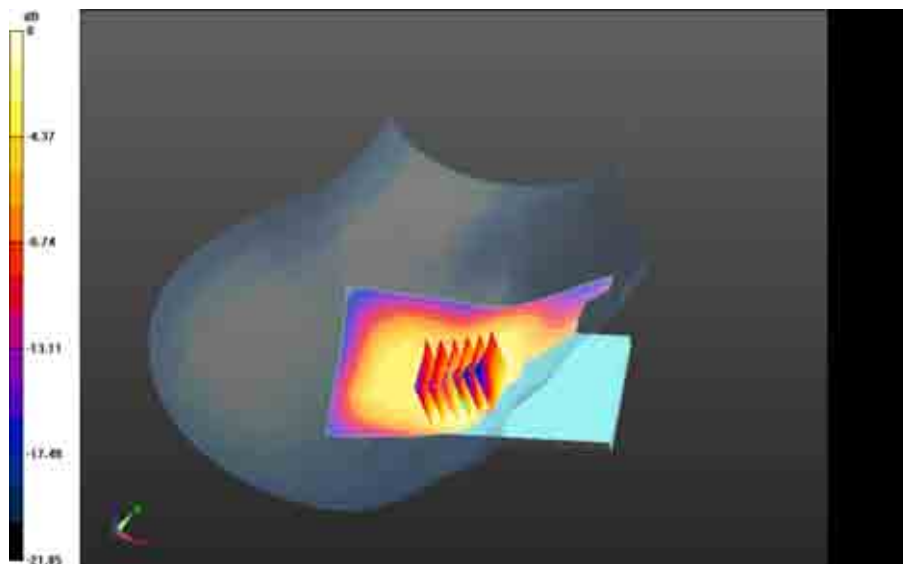
SVLTE_Band_25_chan26365_RB100_Offset0_amb_temp_23.1C_liq_temp_22.0C 2/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.035 V/m; **Power Drift = 0.018 dB**

Right-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB100_Offset0_amb_temp_23.1C_liq_temp_22.0C 2/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 9.650 V/m; **Power Drift = 0.018 dB**

Averaged SAR: SAR(1g) = 0.106 W/kg; SAR(10g) = 0.0668 W/kg

Maximum value of SAR (interpolated) = 0.153 W/kg



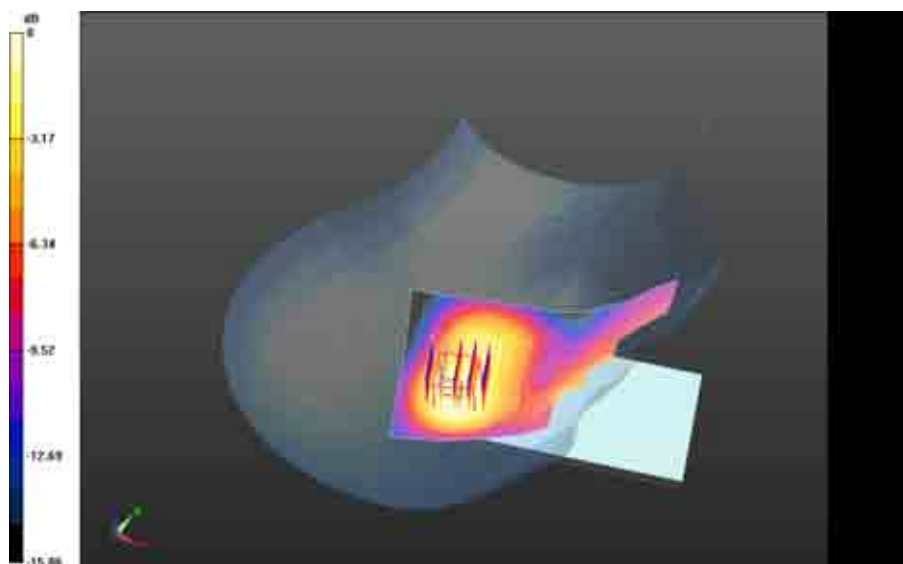
0 dB = 0.0999 W/kg = -10.00 dBW/kg

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Right-Hand-Side HSL - SVLTE Band 25/Tilt Position -
SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.1C_liq_temp_22.2C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.729 V/m; **Power Drift = 0.028 dB**

Right-Hand-Side HSL - SVLTE Band 25/Tilt Position -
SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.1C_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 = 5.729 V/m; **Power Drift = 0.028 dB**

Averaged SAR: SAR(1g) = 0.0614 W/kg; SAR(10g) = 0.0373 W/kg
Maximum value of SAR (interpolated) = 0.0915 W/kg



0 dB = 0.119 W/kg = -9.24 dBW/kg

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Date: 7/2/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - SVLTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1882.5 MHz

Medium Parameters used: $f=1882.5$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.432$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.3C_liq_temp_22.2C/Area Scan

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

Reference Value = 3.278 V/m; **Power Drift = -0.134 dB**

Left-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB1_Offset50_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan

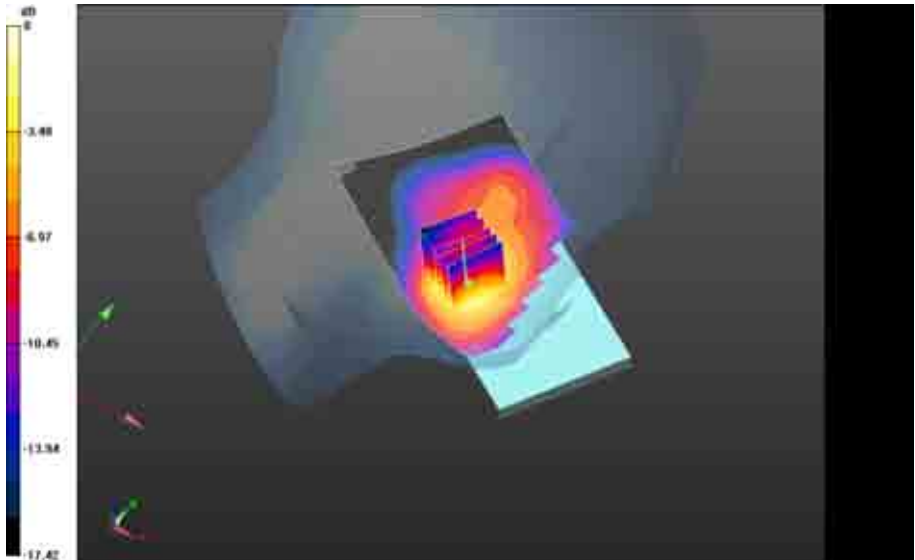
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 3.278 V/m; **Power Drift = -0.134 dB**

Averaged SAR: SAR(1g) = 0.227 W/kg; SAR(10g) = 0.136 W/kg

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

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0 dB = 0.267 W/kg = -5.73 dBW/kg

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Left-Hand-Side HSL - SVLTE Band 25/Touch Position -

SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.3C_liq_temp_22.2C/Area Scan

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

Reference Value = 3.145 V/m; **Power Drift = 0.141 dB**

Left-Hand-Side HSL - SVLTE Band 25/Touch Position -

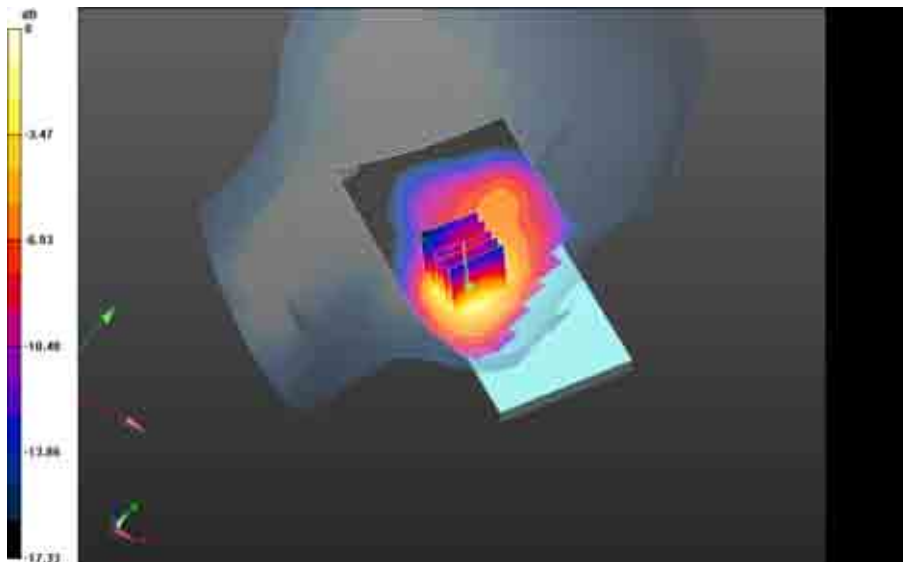
SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan

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

Reference Value = 3.145 V/m; **Power Drift = 0.141 dB**

Averaged SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.137 W/kg

Maximum value of SAR (interpolated) = 0.349 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

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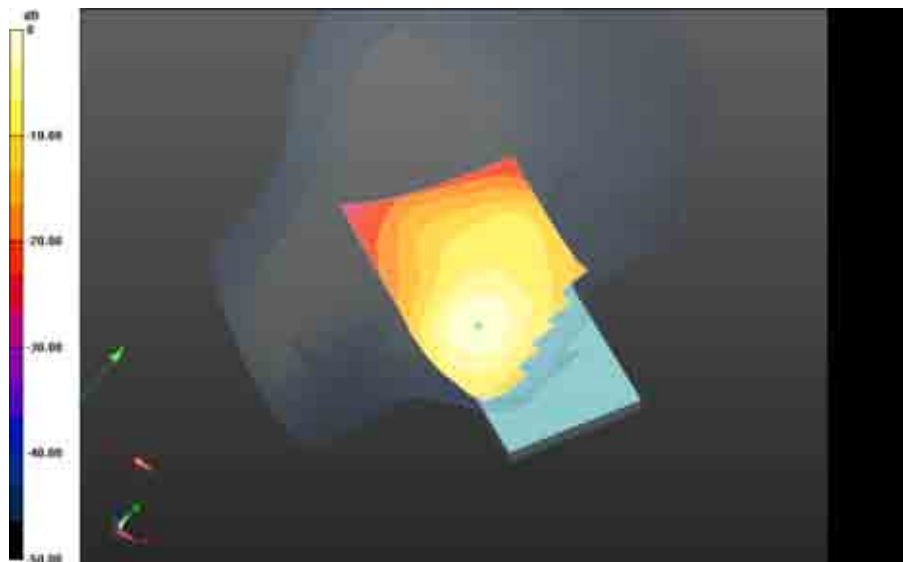
Left-Hand-Side HSL - SVLTE Band 25/Touch Position -

**SVLTE_Band_25_chan26365_RB100_Offset1_amb_temp_23.3C_liq_temp_22.2C 2 2/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Reference Value = 2.957 V/m; **Power Drift = 0.153 dB**

Fast SAR: SAR(1g) = 0.197 W/kg; SAR(10g) = 0.109 W/kg

Maximum value of SAR (interpolated) = 0.249 W/kg



0 dB = 0.269 W/kg = -5.70 dBW/kg

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Left-Hand-Side HSL - SVLTE Band 25/Tilt Position -

SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.3C_liq_temp_22.2C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.124 V/m; **Power Drift = -0.167 dB**

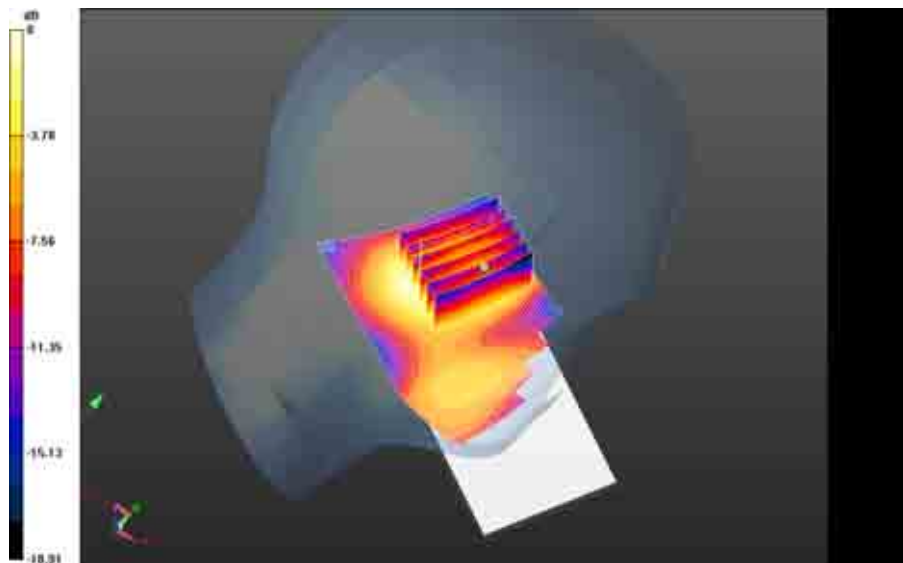
Left-Hand-Side HSL - SVLTE Band 25/Tilt Position -

SVLTE_Band_25_chan26365_RB50_Offset50_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan
(36x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.088 V/m; **Power Drift = -0.167 dB**

Averaged SAR: SAR(1g) = 0.0610 W/kg; SAR(10g) = 0.0413 W/kg

Maximum value of SAR (interpolated) = 0.0887 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

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LTE 25 Full Power

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Date: 7/2/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - LTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1860 MHz

Medium Parameters used: $f=1860$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 38.511$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - LTE Band 25/Touch Position -

LTE_Band_25_chan26140_RB1_Offset99_amb_temp_23.4C_liq_temp_22.5C/Area Scan

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

Reference Value = 6.593 V/m; **Power Drift = 0.043 dB**

Right-Hand-Side HSL - LTE Band 25/Touch Position -

LTE_Band_25_chan26140_RB1_Offset99_amb_temp_23.4C_liq_temp_22.5C/Zoom Scan

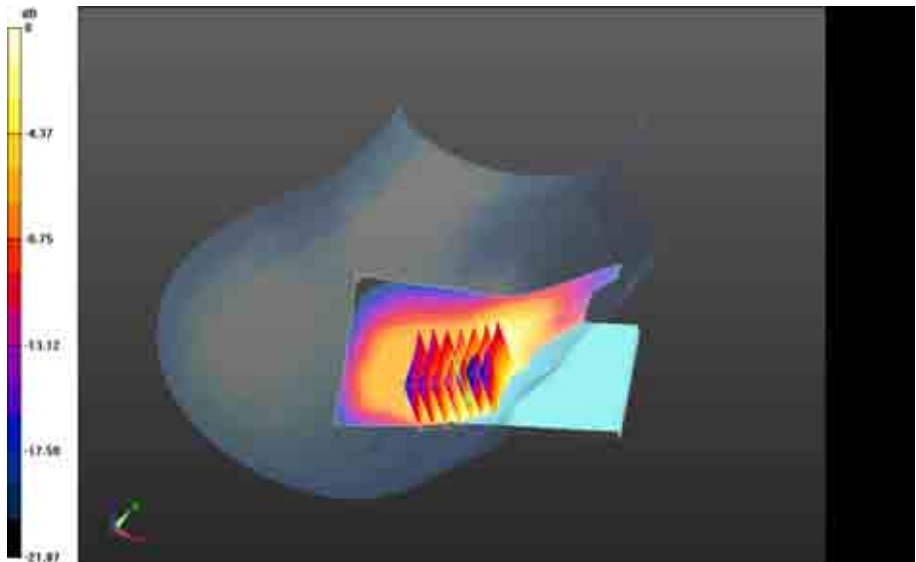
(31x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 15.295 V/m; **Power Drift = 0.043 dB**

Averaged SAR: SAR(1g) = 0.277 W/kg; SAR(10g) = 0.176 W/kg

Maximum value of SAR (interpolated) = 0.400 W/kg

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0 dB = 0.317 W/kg = -4.99 dBW/kg

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Right-Hand-Side HSL - LTE Band 25/Touch Position -

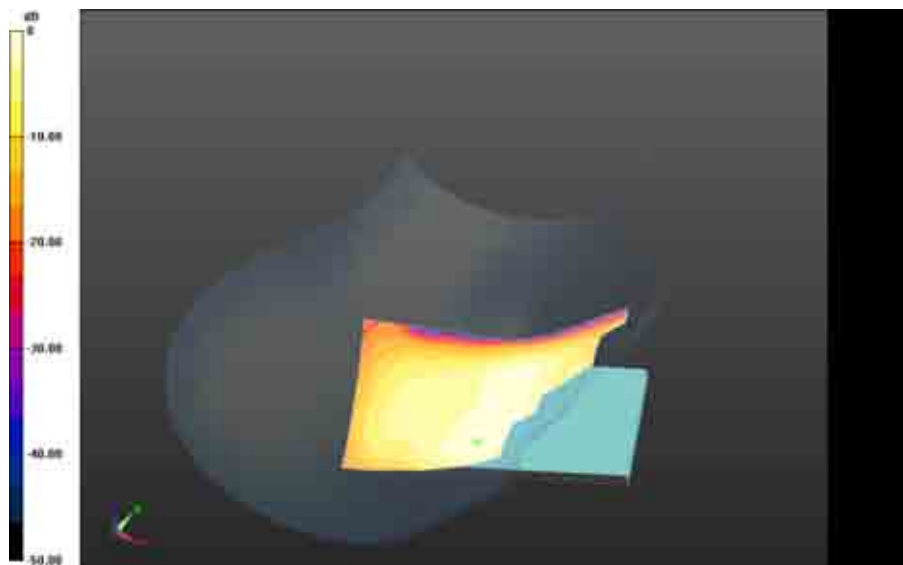
LTE_Band_25_chan26140_RB50_Offset50_amb_temp_23.4C_liq_temp_22.5C/Area Scan

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

Reference Value = 5.889 V/m; **Power Drift = 0.346 dB**

Fast SAR: SAR(1g) = 0.201 W/kg; SAR(10g) = 0.117 W/kg

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



0 dB = 0.317 W/kg = -4.99 dBW/kg

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Right-Hand-Side HSL - LTE Band 25/Touch Position -

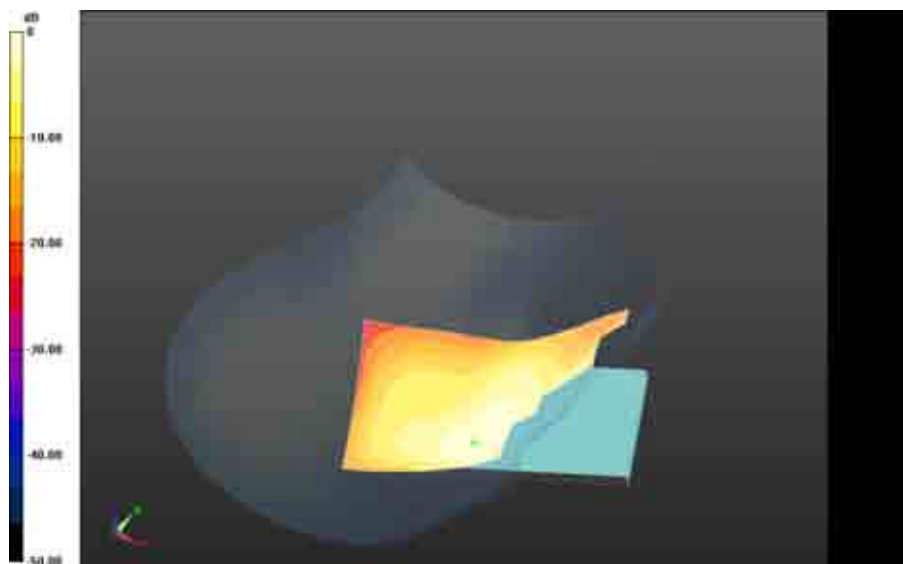
LTE_Band_25_chan26365_RB100_Offset0_amb_temp_23.1C_liq_temp_22.0C 2/Area Scan

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

Reference Value = 5.069 V/m; **Power Drift = 0.223 dB**

Fast SAR: SAR(1g) = 0.246 W/kg; SAR(10g) = 0.140 W/kg

Maximum value of SAR (interpolated) = 0.307 W/kg



0 dB = 0.248 W/kg = -6.06 dBW/kg

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Right-Hand-Side HSL - LTE Band 25/Tilt Position -

LTE_Band_25_chan26140_RB1_Offset100_amb_temp_23.1C_liq_temp_22.2C/Area Scan

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

Reference Value = 9.097 V/m; **Power Drift = 0.113 dB**

Right-Hand-Side HSL - LTE Band 25/Tilt Position -

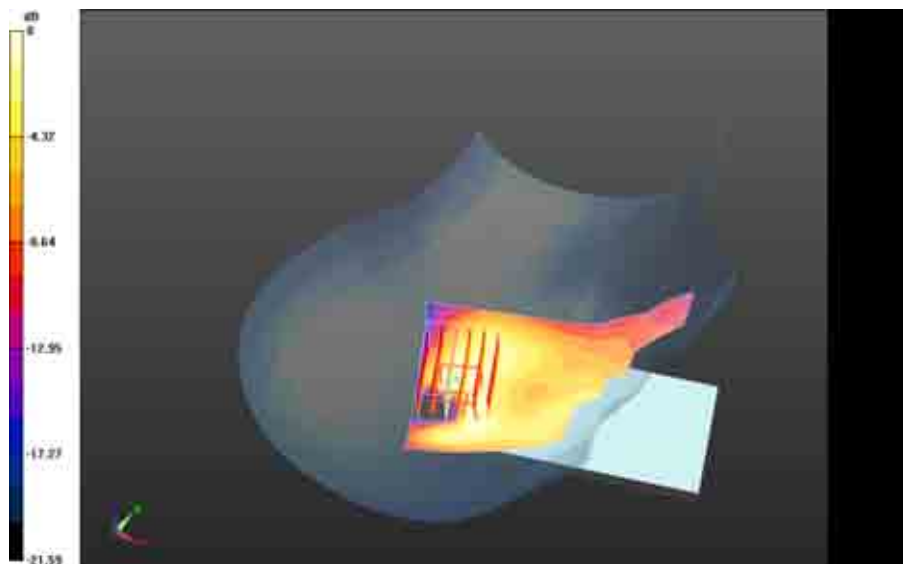
LTE_Band_25_chan26140_RB1_Offset100_amb_temp_23.1C_liq_temp_22.2C/Zoom Scan

(31x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.959 V/m; **Power Drift = -0.095 dB**

Averaged SAR: SAR(1g) = 0.113 W/kg; SAR(10g) = 0.0686 W/kg

Maximum value of SAR (interpolated) = 0.174 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

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Date: 7/2/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - LTE Band 25

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1860 MHz

Medium Parameters used: $f=1860$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 38.511$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - LTE Band 25/Touch Position -

LTE_Band_25_chan26140_RB1_Offset99_amb_temp_23.3C_liq_temp_22.2C/Area Scan

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

Reference Value = 5.273 V/m; **Power Drift = 0.00578 dB**

Left-Hand-Side HSL - LTE Band 25/Touch Position -

LTE_Band_25_chan26140_RB1_Offset99_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan

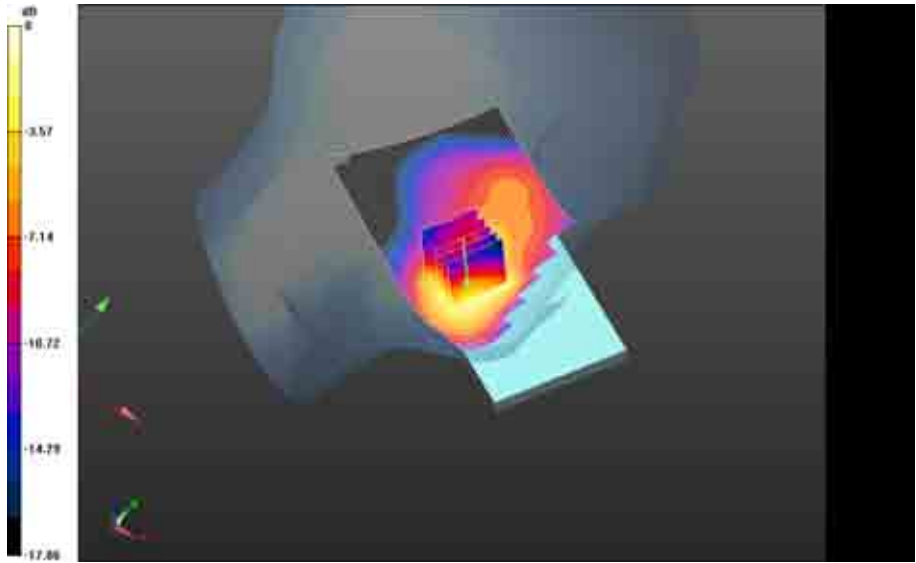
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.273 V/m; **Power Drift = 0.00578 dB**

Averaged SAR: SAR(1g) = 0.594 W/kg; SAR(10g) = 0.350 W/kg

Maximum value of SAR (interpolated) = 0.923 W/kg

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0 dB = 0.668 W/kg = -1.75 dBW/kg

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Left-Hand-Side HSL - LTE Band 25/Touch Position -

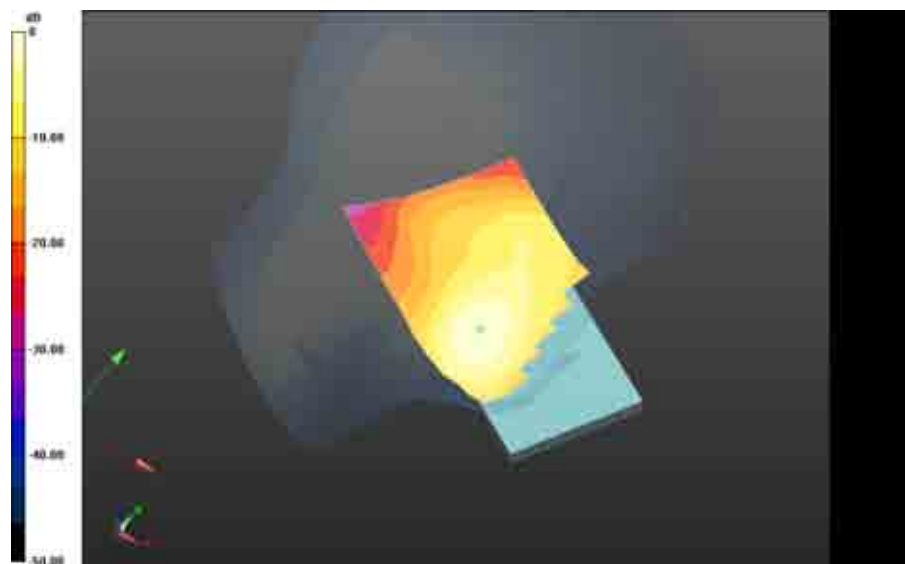
LTE_Band_25_chan26140_RB50_Offset50_amb_temp_23.0C_liq_temp_22.1C/Area Scan

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

Reference Value = 5.300 V/m; **Power Drift = -0.011 dB**

Fast SAR: SAR(1g) = 0.572 W/kg; SAR(10g) = 0.314 W/kg

Maximum value of SAR (interpolated) = 0.711 W/kg



0 dB = 0.668 W/kg = -1.75 dBW/kg

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Left-Hand-Side HSL - LTE Band 25/Touch Position -

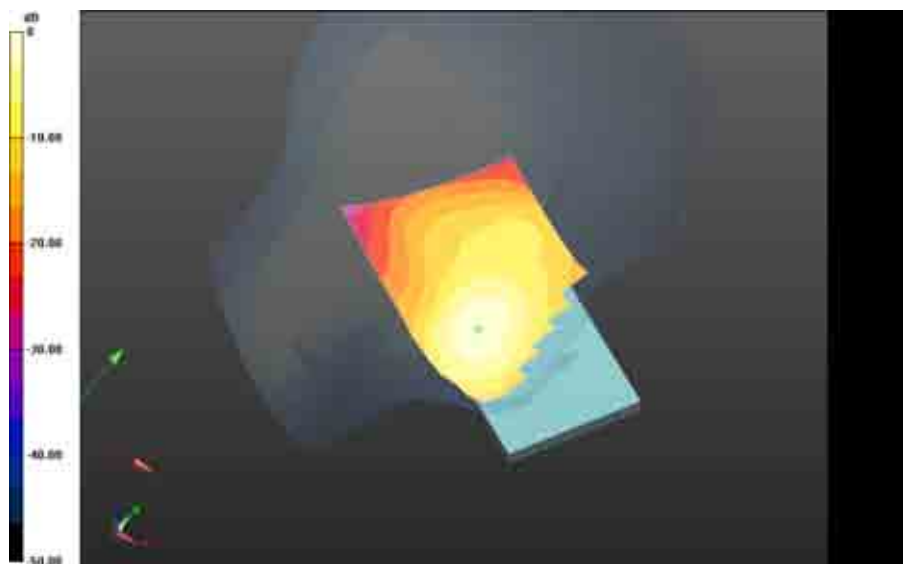
LTE_Band_25_chan26365_RB100_Offset0_amb_temp_23.3C_liq_temp_22.5/Area Scan

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

Reference Value = 4.627 V/m; **Power Drift = 0.137 dB**

Fast SAR: SAR(1g) = 0.513 W/kg; SAR(10g) = 0.282 W/kg

Maximum value of SAR (interpolated) = 0.644 W/kg



0 dB = 0.711 W/kg = -1.48 dBW/kg

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Left-Hand-Side HSL - LTE Band 25/Tilt Position -

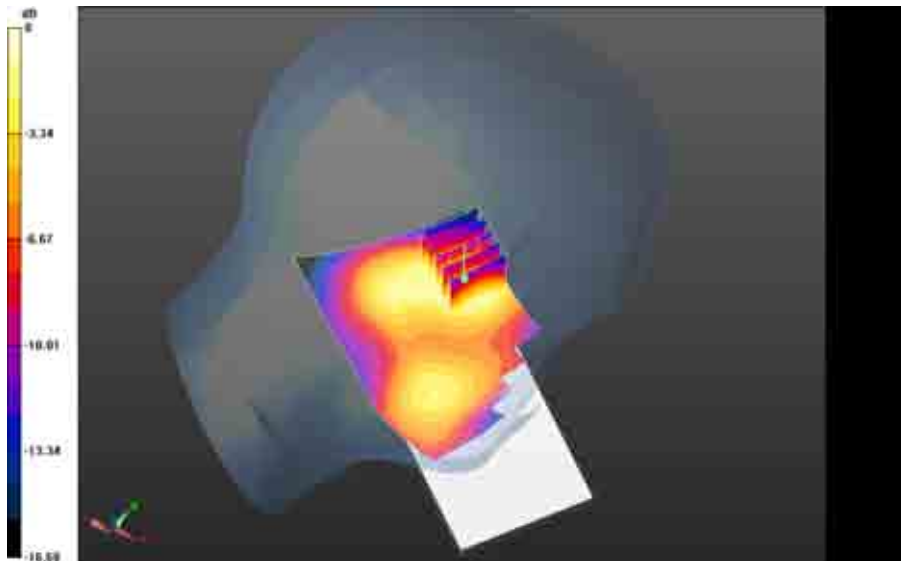
LTE_Band_25_chan26140_RB1_Offset99_amb_temp_23.3C_liq_temp_22.2C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.879 V/m; **Power Drift = -0.043 dB**

Left-Hand-Side HSL - LTE Band 25/Tilt Position -

LTE_Band_25_chan26140_RB1_Offset99_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 = 11.045 V/m; **Power Drift = -0.043 dB**

Averaged SAR: SAR(1g) = 0.147 W/kg; SAR(10g) = 0.0915 W/kg

Maximum value of SAR (interpolated) = 0.214 W/kg



0 dB = 0.644 W/kg = -1.91 dBW/kg

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DTM/GSM 1900

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Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Right-Hand-Side HSL - DTM 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 38.715$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.655 V/m; **Power Drift = 0.026 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_23.3C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

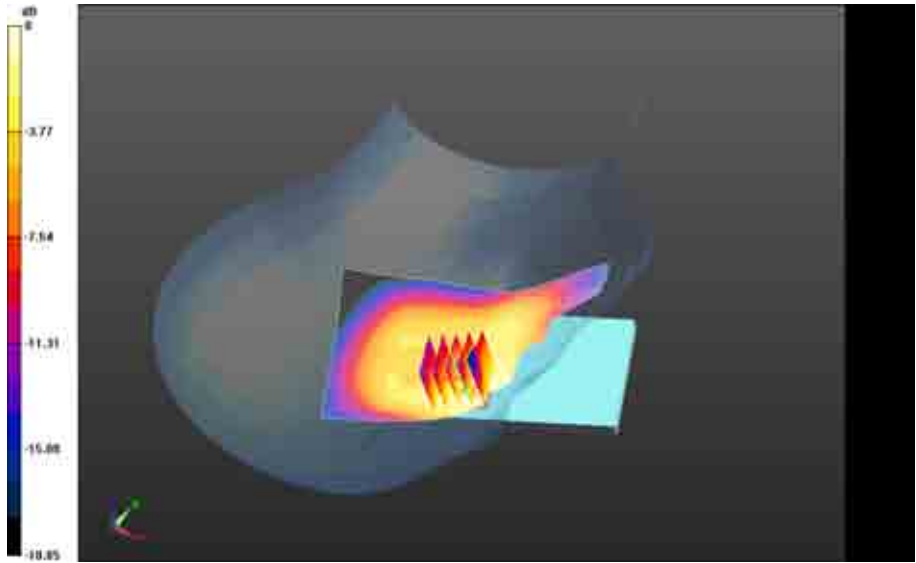
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.655 V/m; **Power Drift = 0.026 dB**

Averaged SAR: SAR(1g) = 0.137 W/kg; SAR(10g) = 0.0875 W/kg

Maximum value of SAR (interpolated) = 0.195 W/kg

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0 dB = 0.156 W/kg = -8.07 dBW/kg

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Right-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.297 V/m; **Power Drift = -0.013 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position -

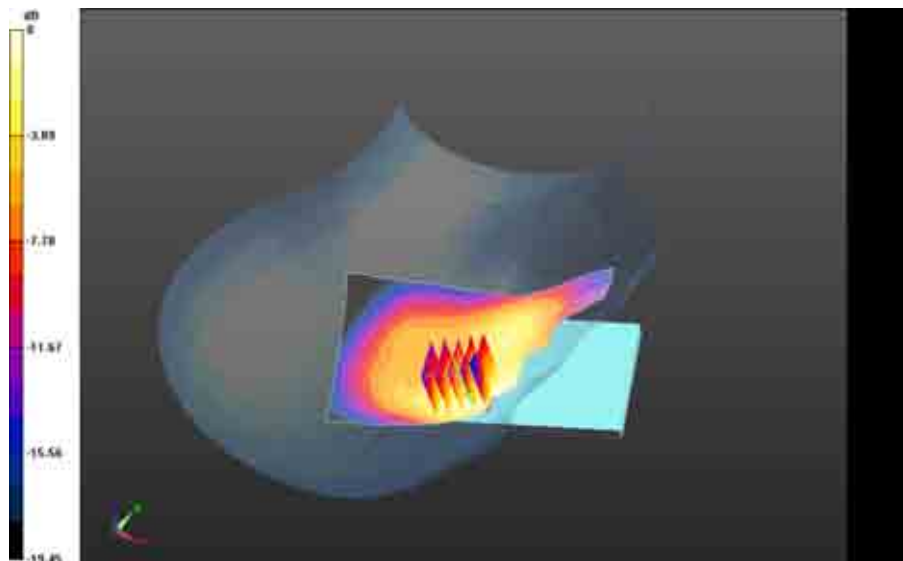
DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 6.297 V/m; **Power Drift = -0.013 dB**

Averaged SAR: SAR(1g) = 0.241 W/kg; SAR(10g) = 0.149 W/kg

Maximum value of SAR (interpolated) = 0.350 W/kg



0 dB = 0.156 W/kg = -8.07 dBW/kg

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Right-Hand-Side HSL - DTM 1900/Tilt Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.733 V/m; **Power Drift = -0.000301 dB**

Right-Hand-Side HSL - DTM 1900/Tilt Position -

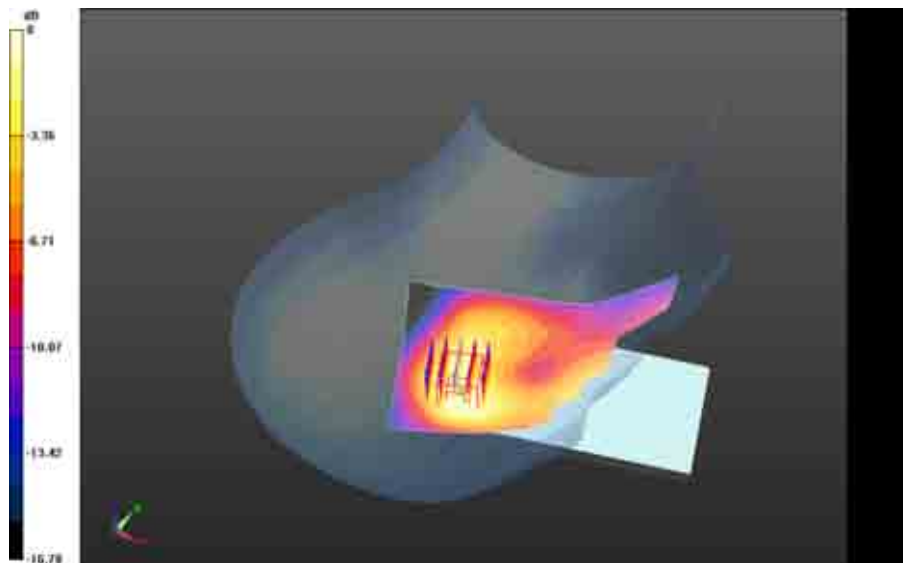
DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 8.733 V/m; **Power Drift = -0.000301 dB**

Averaged SAR: SAR(1g) = 0.143 W/kg; SAR(10g) = 0.0861 W/kg

Maximum value of SAR (interpolated) = 0.219 W/kg



0 dB = 0.281 W/kg = -5.51 dBW/kg

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Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Left-Hand-Side HSL - DTM 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 38.715$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 1900/Touch Position -

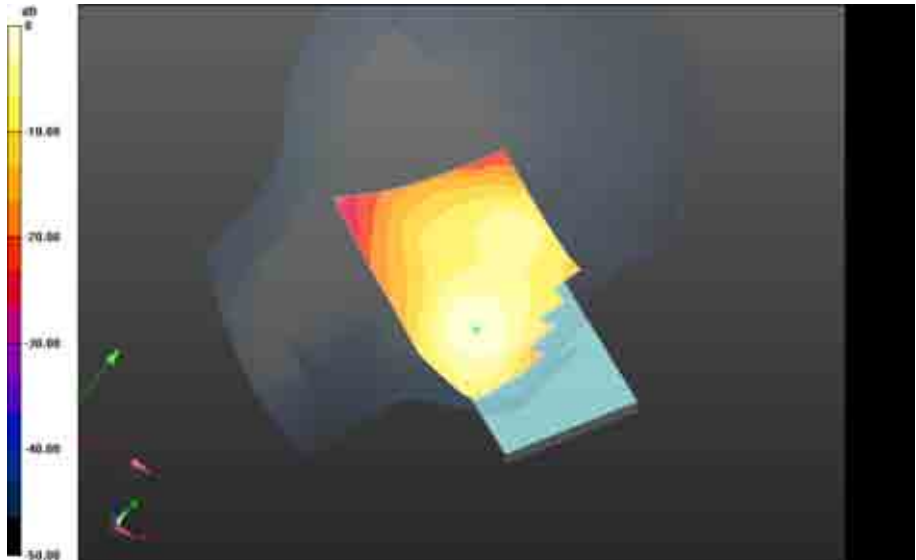
GSM1900_chan661_amb_temp_22.8C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.401 V/m; **Power Drift = 0.089 dB**

Fast SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.167 W/kg

Maximum value of SAR (interpolated) = 0.376 W/kg

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0 dB = 0.376 W/kg = -4.25 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.458 V/m; **Power Drift = -0.261 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position -

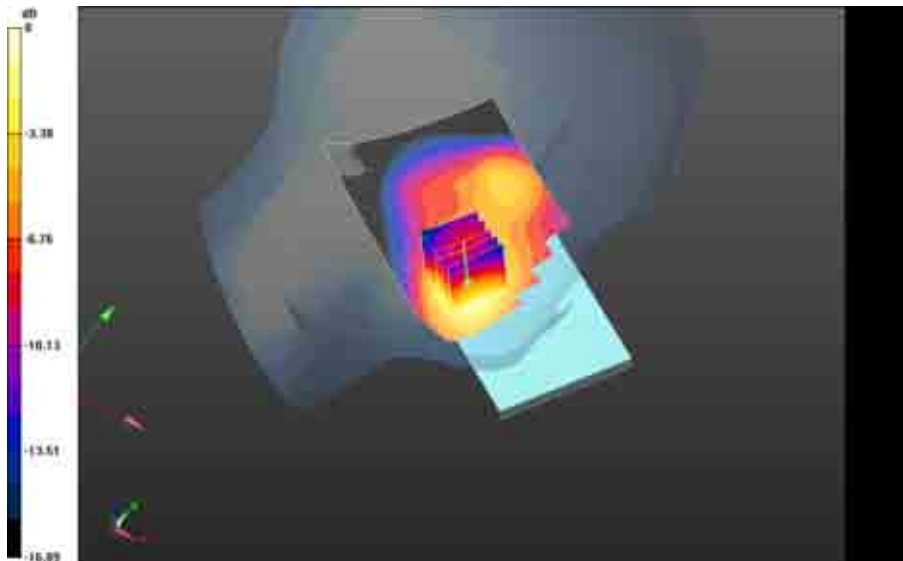
DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 6.458 V/m; **Power Drift = -0.261 dB**

Averaged SAR: SAR(1g) = 0.407 W/kg; SAR(10g) = 0.254 W/kg

Maximum value of SAR (interpolated) = 0.601 W/kg



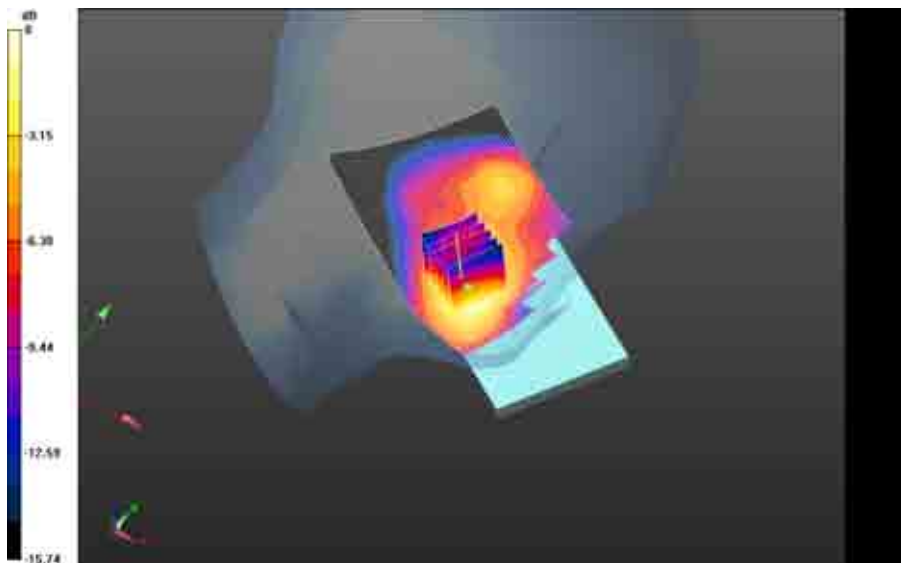
0 dB = 0.376 W/kg = -4.25 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_3-Slots_chan661_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 5.640 V/m; **Power Drift = -0.038 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_3-Slots_chan661_amb_temp_23.3C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 5.640 V/m; **Power Drift = -0.038 dB**

Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.209 W/kg
Maximum value of SAR (interpolated) = 0.491 W/kg

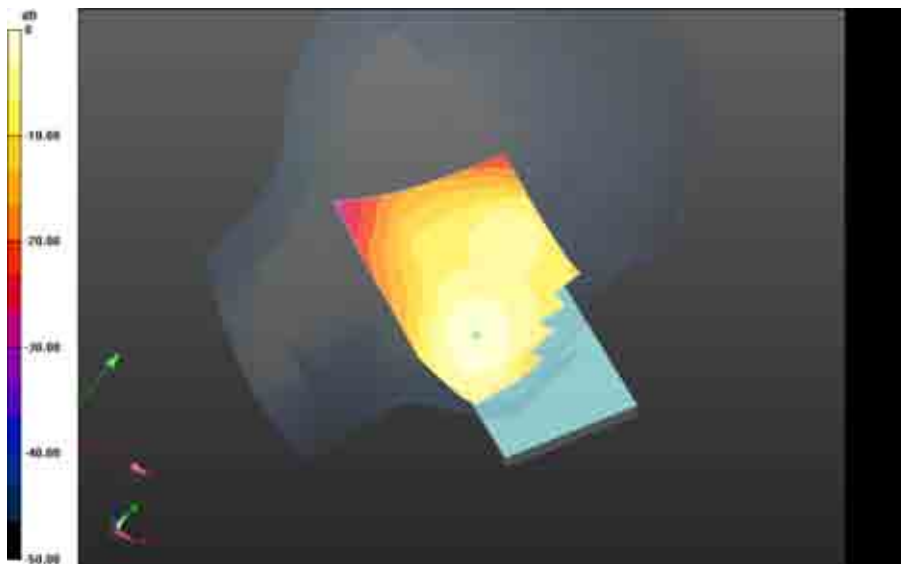


0 dB = 0.476 W/kg = -3.22 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900_4-Slots_chan661_amb_temp_22.7C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 6.097 V/m; **Power Drift = 0.041 dB**

Fast SAR: SAR(1g) = 0.388 W/kg; SAR(10g) = 0.218 W/kg
Maximum value of SAR (interpolated) = 0.479 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Tilt Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.295 V/m; **Power Drift = 0.103 dB**

Left-Hand-Side HSL - DTM 1900/Tilt Position -

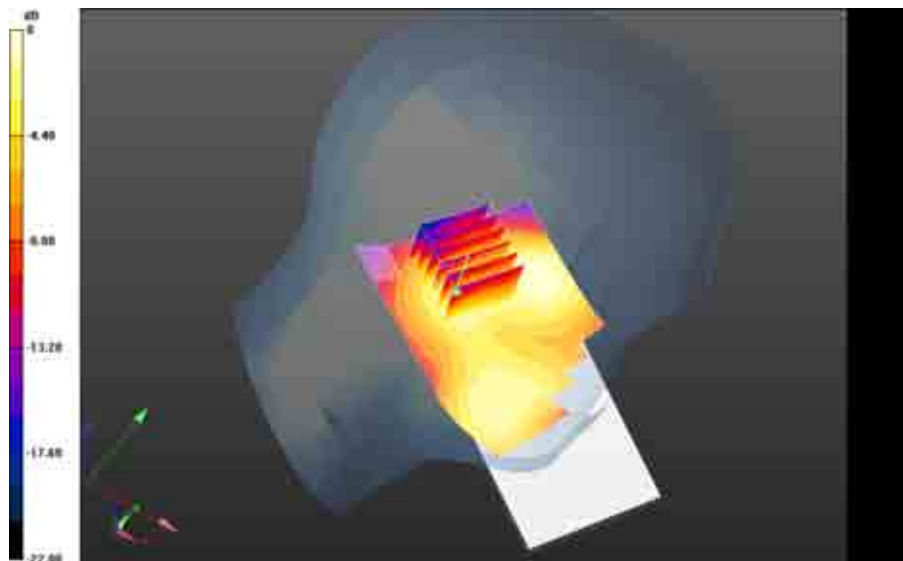
DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (26x26x36)/Cube 0:

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

Reference Value = 8.295 V/m; **Power Drift = 0.103 dB**

Averaged SAR: SAR(1g) = 0.104 W/kg; SAR(10g) = 0.0628 W/kg

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



0 dB = 0.479 W/kg = -3.20 dBW/kg

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Date: 7/3/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - DTM 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.441$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.416 W/kg

Right-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

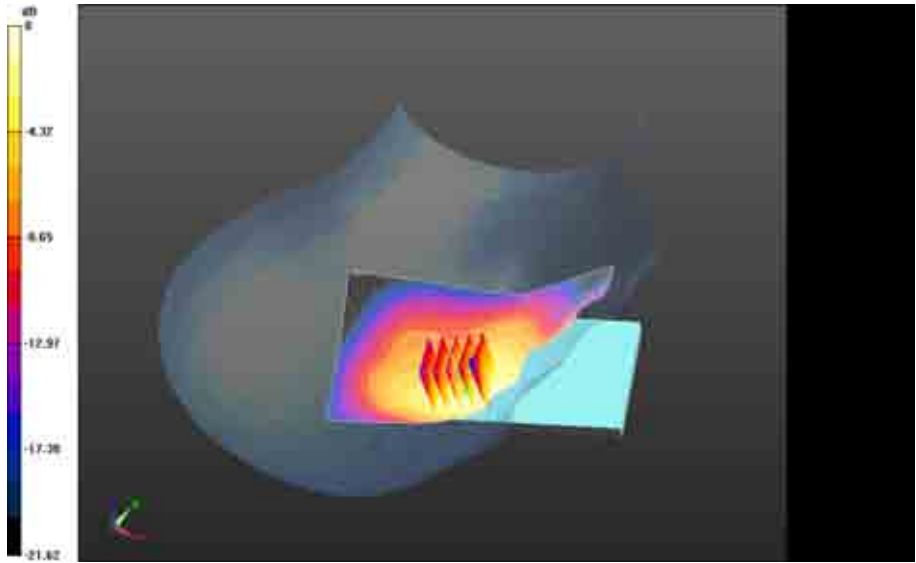
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.049 V/m; **Power Drift = -0.043 dB**

Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.214 W/kg

Maximum value of SAR (interpolated) = 0.492 W/kg

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0 dB = 0.394 W/kg = -4.05 dBW/kg

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Date: 7/3/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - DTM 1900

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.441$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.844 W/kg

Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

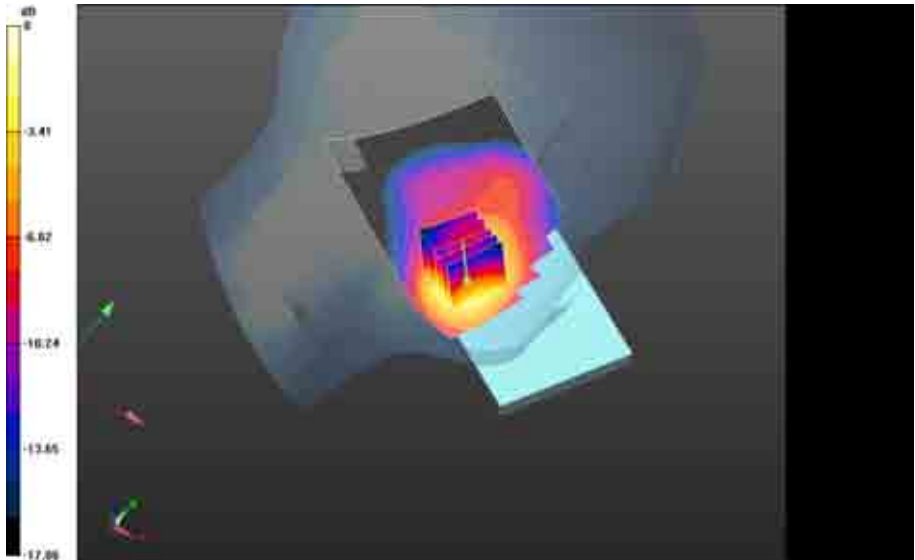
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.641 V/m; **Power Drift = 0.091 dB**

Averaged SAR: SAR(1g) = 0.705 W/kg; SAR(10g) = 0.427 W/kg

Maximum value of SAR (interpolated) = 1.09 W/kg

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0 dB = 0.824 W/kg = -0.84 dBW/kg

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UMTS Band II

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Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Right-Hand-Side HSL - UMTS II

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 38.715$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.0C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.280 V/m; **Power Drift = -0.063 dB**

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.0C_liq_temp_21.8C/Zoom Scan (26x26x36)/Cube 0:

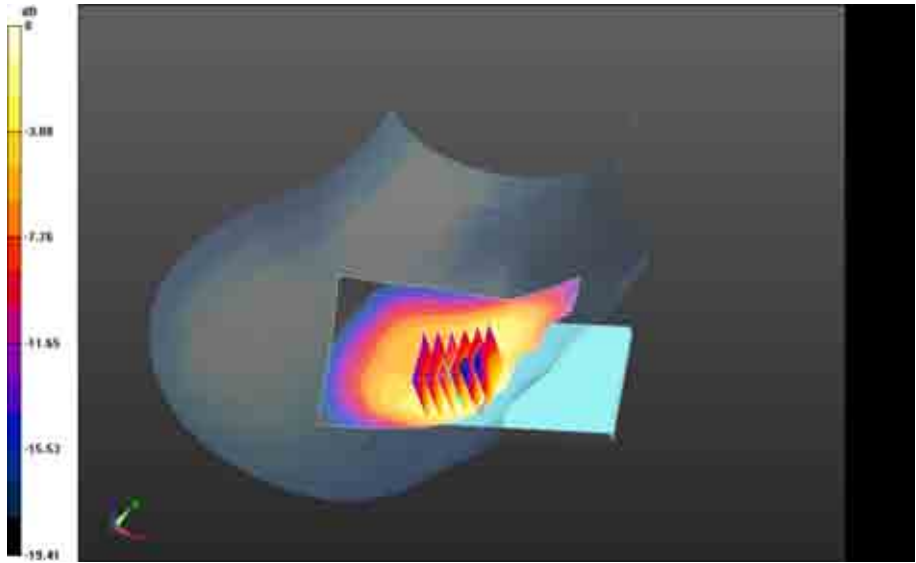
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.280 V/m; **Power Drift = -0.063 dB**

Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.206 W/kg

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

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0 dB = 0.386 W/kg = -4.13 dBW/kg

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Right-Hand-Side HSL - UMTS II/Tilt Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.200 V/m; **Power Drift = -0.075 dB**

Right-Hand-Side HSL - UMTS II/Tilt Position -

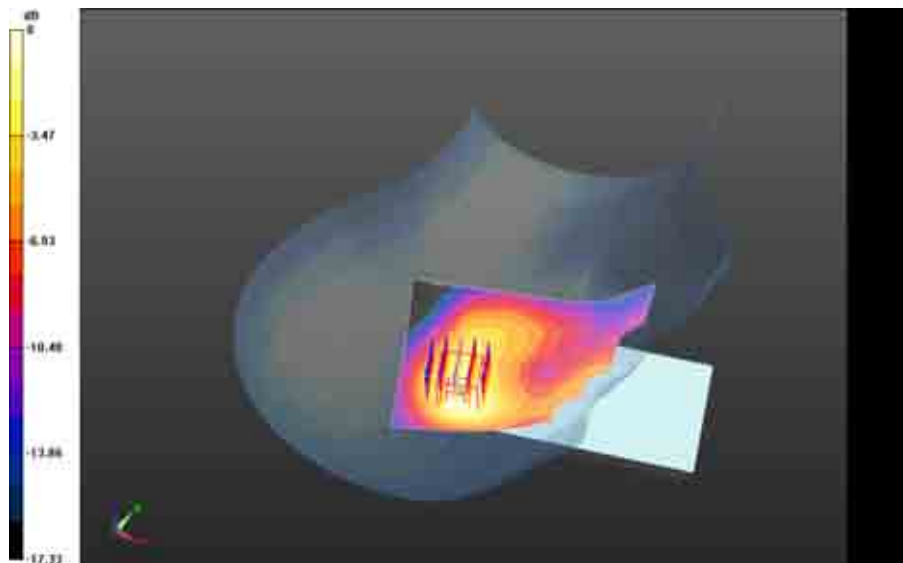
UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.8C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 12.200 V/m; **Power Drift = -0.075 dB**

Averaged SAR: SAR(1g) = 0.320 W/kg; SAR(10g) = 0.190 W/kg

Maximum value of SAR (interpolated) = 0.500 W/kg



0 dB = 0.386 W/kg = -4.13 dBW/kg

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Date: 6/21/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E285E

Configuration: Left-Hand-Side HSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 38.817$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS II/Touch Position -

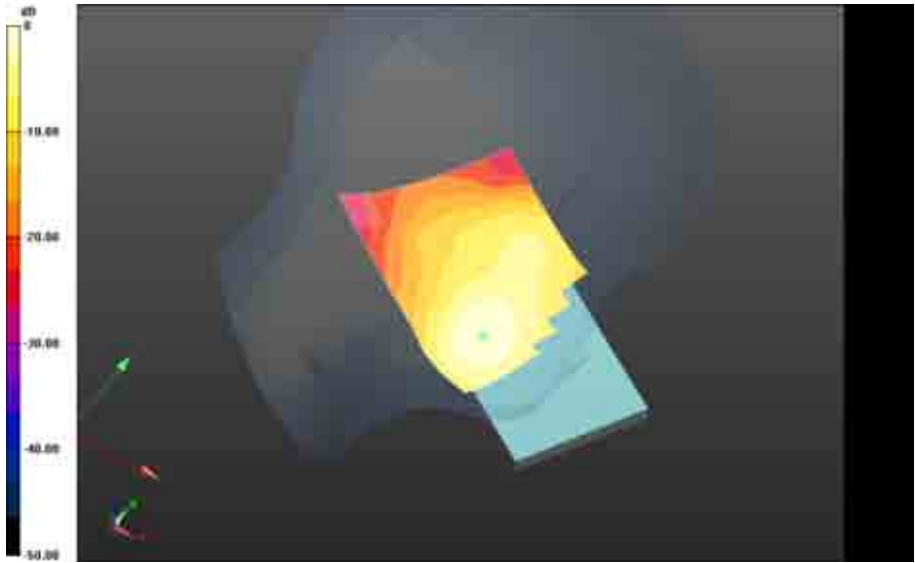
UMTS_II_chan9262_amb_temp_23.0C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.698 V/m; **Power Drift = 0.057 dB**

Fast SAR: SAR(1g) = 0.973 W/kg; SAR(10g) = 0.550 W/kg

Maximum value of SAR (interpolated) = 1.20 W/kg

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0 dB = 1.20 W/kg = 0.79 dBW/kg

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Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.621 V/m; **Power Drift = 0.082 dB**

Left-Hand-Side HSL - UMTS II/Touch Position -

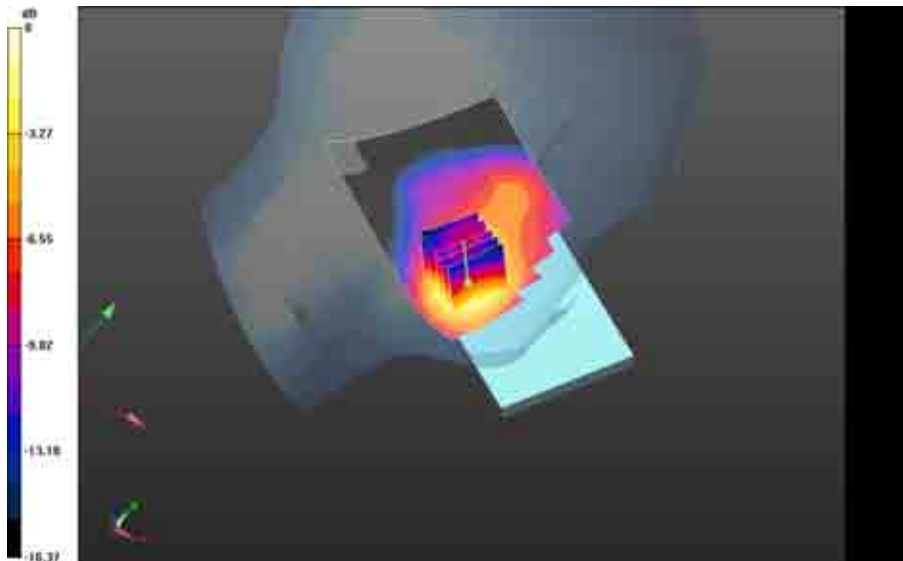
UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 7.621 V/m; **Power Drift = 0.082 dB**

Averaged SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.661 W/kg

Maximum value of SAR (interpolated) = 1.66 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C_2nd/Area Scan (61x91x1):

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

Reference Value = 7.534 V/m; **Power Drift = 0.118 dB**

Left-Hand-Side HSL - UMTS II/Touch Position -

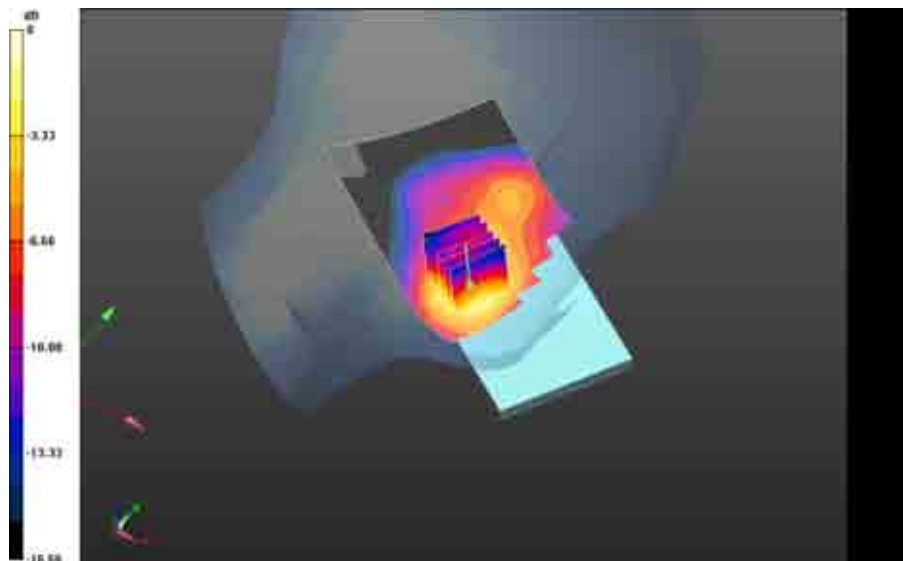
UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C_2nd/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 7.534 V/m; **Power Drift = 0.118 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.626 W/kg

Maximum value of SAR (interpolated) = 1.55 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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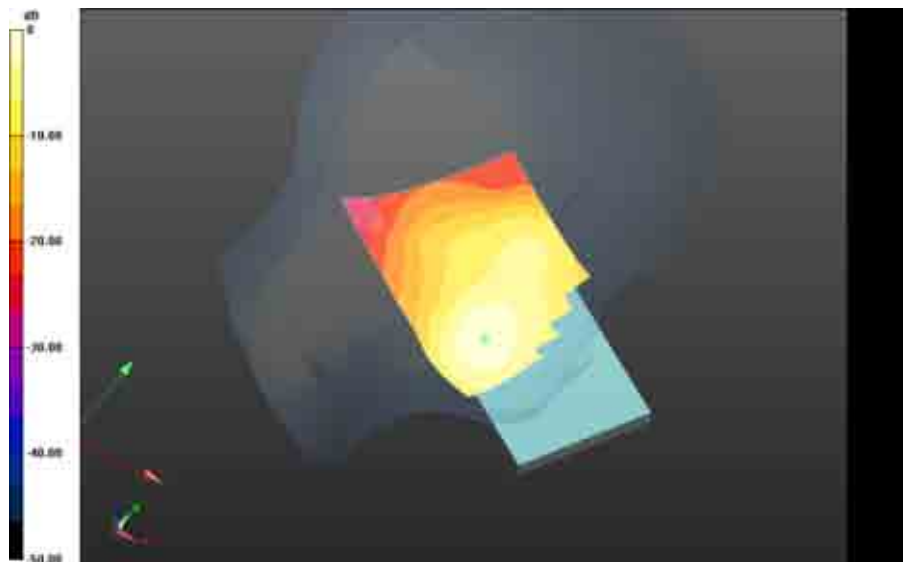
Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9538_amb_temp_23.1C_liq_temp_21.9C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.432 V/m; **Power Drift = -0.00983 dB**

Fast SAR: SAR(1g) = 0.946 W/kg; SAR(10g) = 0.525 W/kg

Maximum value of SAR (interpolated) = 1.18 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Left-Hand-Side HSL - UMTS II/Tilt Position -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_22.0C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.488 V/m; **Power Drift = -0.076 dB**

Left-Hand-Side HSL - UMTS II/Tilt Position -

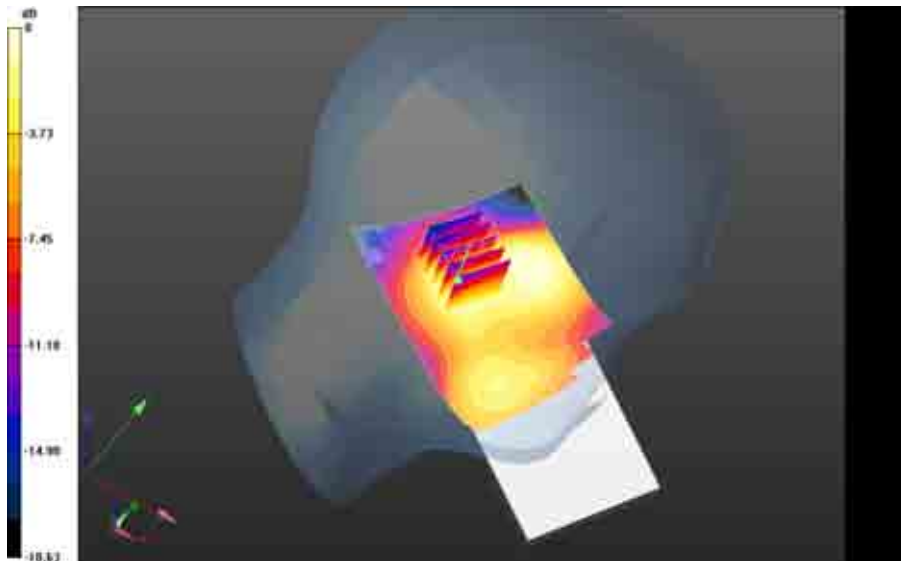
UMTS_II_chan9400_amb_temp_23.3C_liq_temp_22.0C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 12.488 V/m; **Power Drift = -0.076 dB**

Averaged SAR: SAR(1g) = 0.250 W/kg; SAR(10g) = 0.152 W/kg

Maximum value of SAR (interpolated) = 0.378 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 7/3/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - UMTS II

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.441$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.0C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.0C_liq_temp_21.8C/Zoom Scan (26x26x36)/Cube 0:

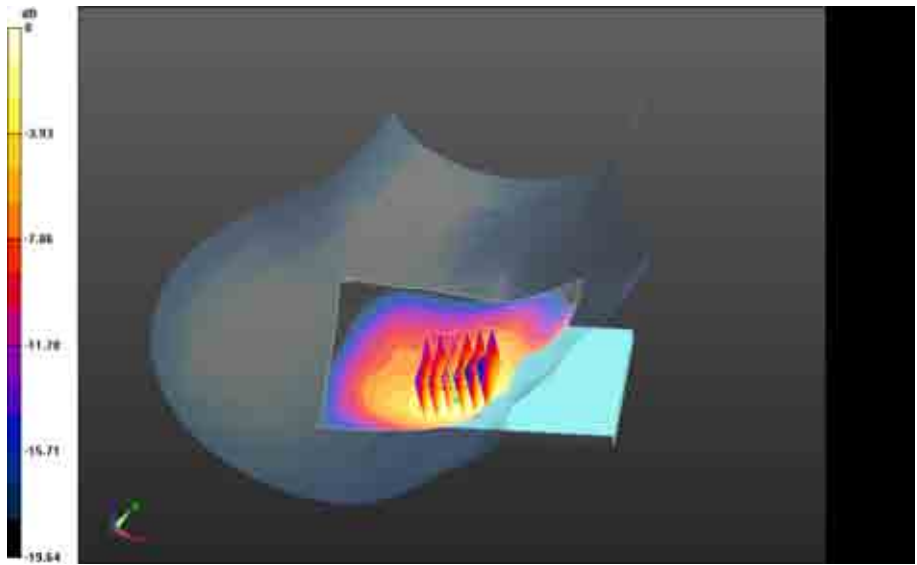
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.301 V/m; **Power Drift = -0.178 dB**

Averaged SAR: SAR(1g) = 0.342 W/kg; SAR(10g) = 0.215 W/kg

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

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0 dB = 0.400 W/kg = -3.98 dBW/kg

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Date: 7/3/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - UMTS II

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

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 38.441$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.818 W/kg

Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0:

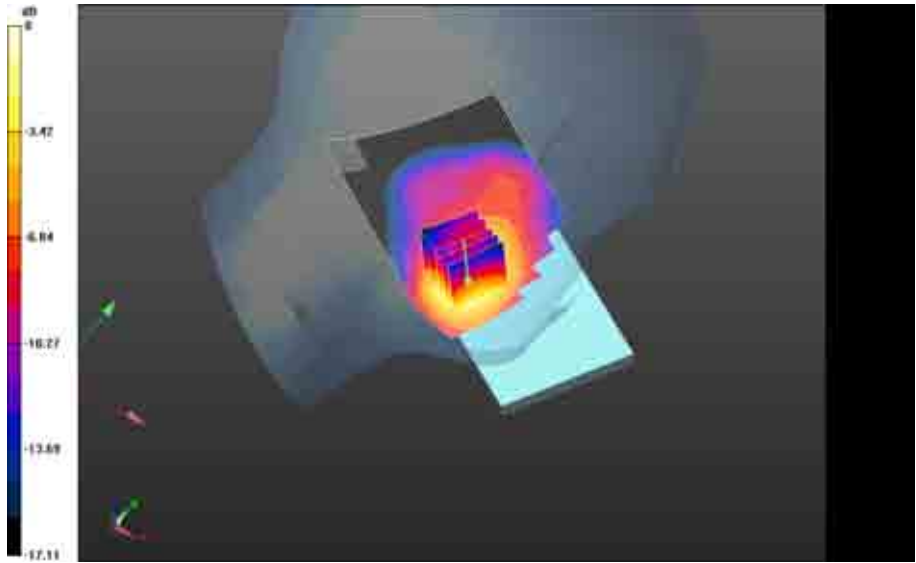
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.788 V/m; **Power Drift = -0.065 dB**

Averaged SAR: SAR(1g) = 0.695 W/kg; SAR(10g) = 0.420 W/kg

Maximum value of SAR (interpolated) = 1.07 W/kg

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0 dB = 0.806 W/kg = -0.94 dBW/kg

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CDMA 1900

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Date: 6/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - CDMA 1900 BC1

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;

Frequency: 1851.25 MHz

Medium Parameters used: $f=1851.25$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 39.455$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan25

_amb_temp_23.1C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.085 V/m; **Power Drift = 0.015 dB**

Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan25

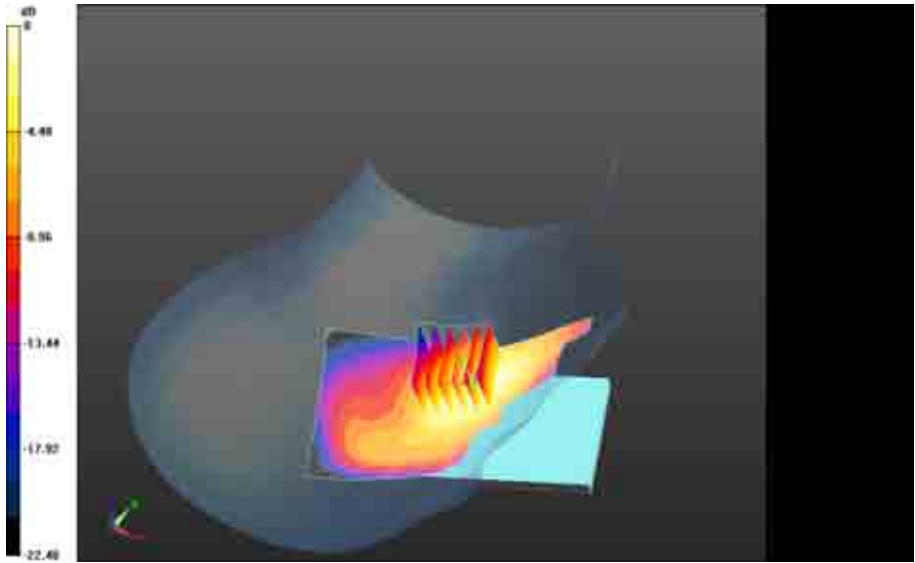
_amb_temp_23.1C_liq_temp_22.6C/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.085 V/m; **Power Drift = 0.015 dB**

Averaged SAR: SAR(1g) = 1.11 W/kg; SAR(10g) = 0.706 W/kg

Maximum value of SAR (interpolated) = 1.65 W/kg

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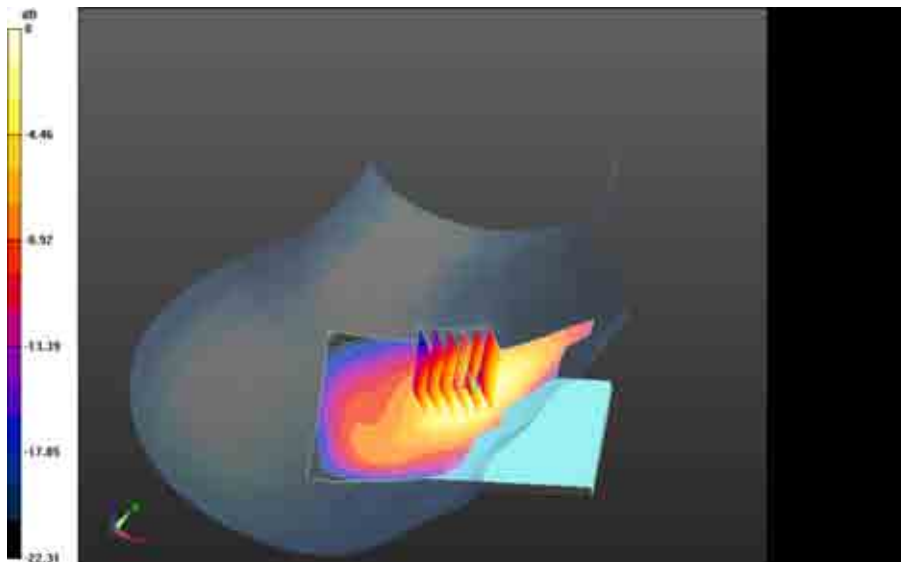
0 dB = 1.31 W/kg = 1.17 dBW/kg

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**Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan600
_amb_temp_23.1C_liq_temp_22.7C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.700 V/m; **Power Drift = 0.157 dB**

**Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan600
_amb_temp_23.1C_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 = 11.700 V/m; **Power Drift = 0.157 dB**

Averaged SAR: SAR(1g) = 1.27 W/kg; SAR(10g) = 0.800 W/kg
Maximum value of SAR (interpolated) = 1.89 W/kg



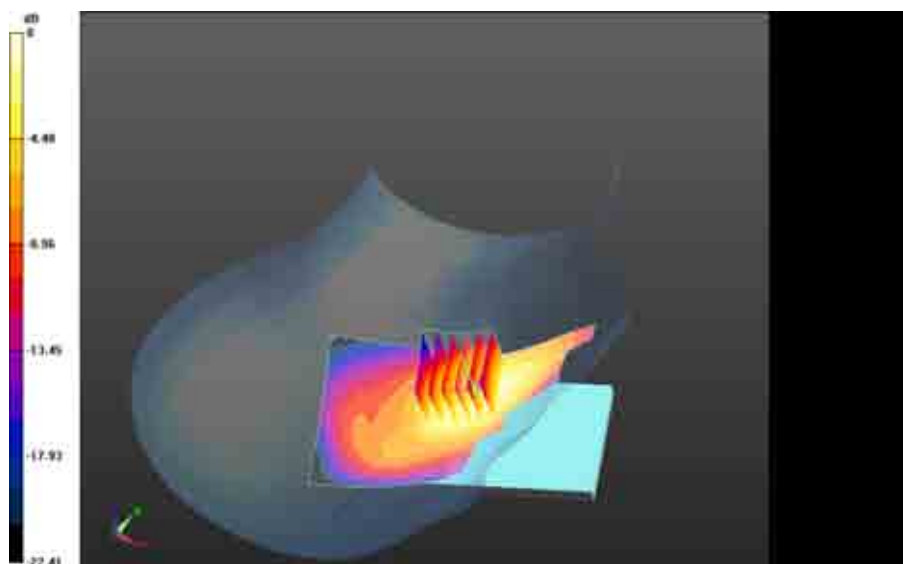
0 dB = 1.31 W/kg = 1.17 dBW/kg

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**Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan1175
_amb_temp_23.2C_liq_temp_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm
Reference Value = 11.912 V/m; **Power Drift = -0.101 dB**

**Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan1175
_amb_temp_23.2C_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 = 11.912 V/m; **Power Drift = -0.101 dB**

Averaged SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.732 W/kg
Maximum value of SAR (interpolated) = 1.78 W/kg



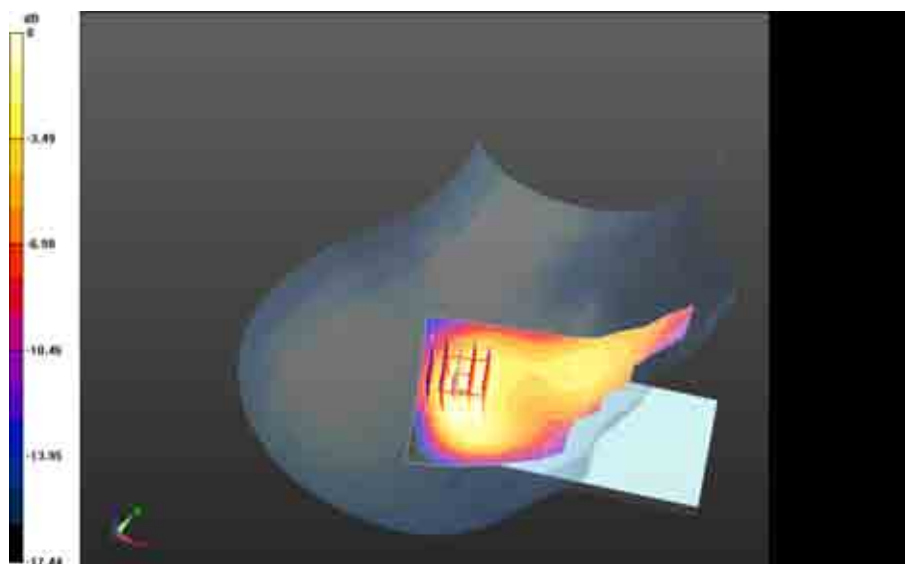
0 dB = 1.49 W/kg = 1.73 dBW/kg

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**Right-Hand-Side HSL - CDMA 1900 BC1/Tilt Position -CDMA 1900 BC1_chan600
_amb_temp_23.4C_liq_temp_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm
Reference Value = 19.525 V/m; **Power Drift = 0.055 dB**

**Right-Hand-Side HSL - CDMA 1900 BC1/Tilt Position -CDMA 1900 BC1_chan600
_amb_temp_23.4C_liq_temp_22.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid:
dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 19.525 V/m; **Power Drift = 0.055 dB**

Averaged SAR: SAR(1g) = 0.391 W/kg; SAR(10g) = 0.243 W/kg
Maximum value of SAR (interpolated) = 0.589 W/kg



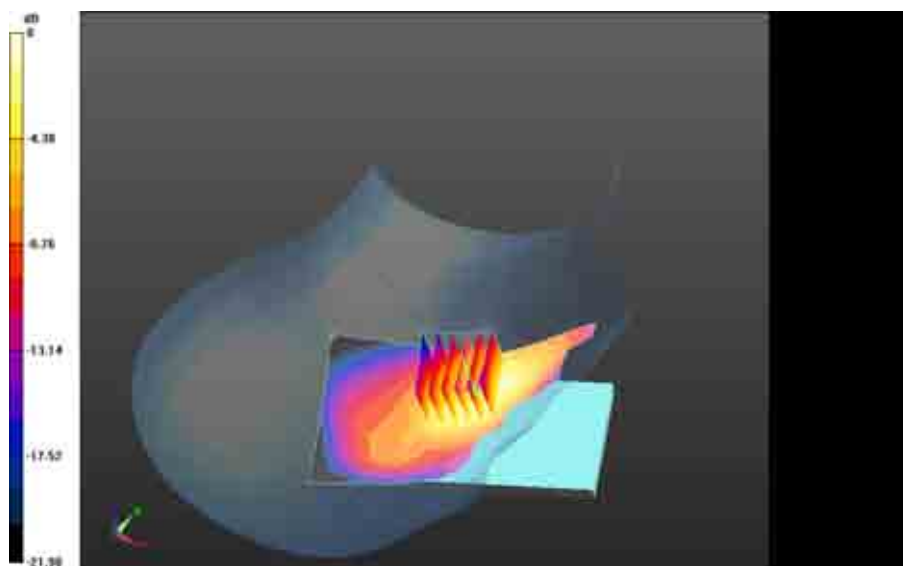
0 dB = 1.39 W/kg = 1.43 dBW/kg

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Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan600 _2nd scan_amb_temp_23.1C_liq_temp_22.7C 2/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.919 V/m; **Power Drift = 0.034 dB**

Right-Hand-Side HSL - CDMA 1900 BC1/Touch Position - CDMA 1900 BC1_chan600 _2nd scan_amb_temp_23.1C_liq_temp_22.7C 2/Zoom Scan (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 10.919 V/m; **Power Drift = 0.034 dB**

Averaged SAR: SAR(1g) = 1.33 W/kg; SAR(10g) = 0.824 W/kg
Maximum value of SAR (interpolated) = 2.02 W/kg



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

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Date: 6/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - CDMA 1900 BC1

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;

Frequency: 1851.25 MHz

Medium Parameters used: $f=1851.25$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 39.455$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - CDMA 1900 BC1/Touch Position -- CDMA 1900

BC1_chan25_amb_temp_23.2C_liq_temp_22.4C/Area Scan (61x101x1): Interpolated grid:

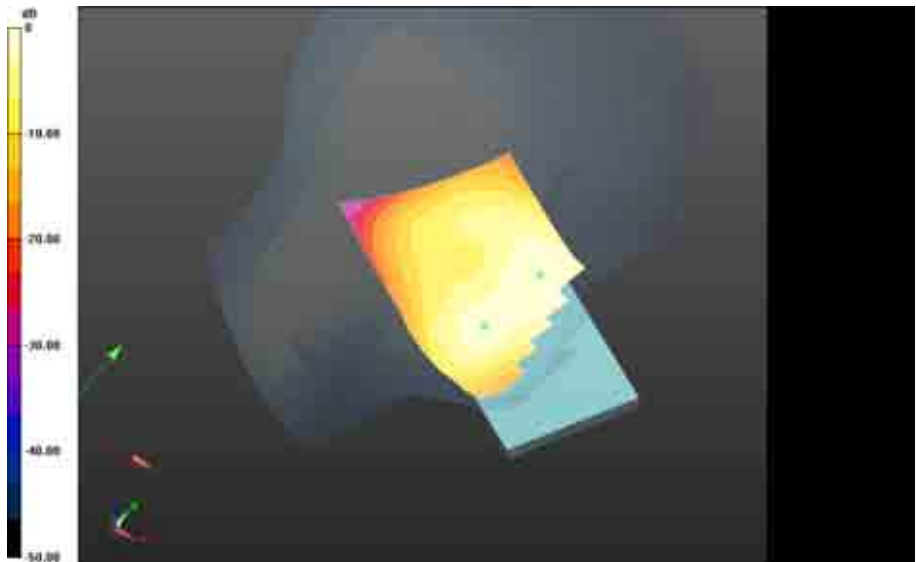
dx=1.500 mm, dy=1.500 mm

Reference Value = 10.186 V/m; **Power Drift = 0.067 dB**

Fast SAR: SAR(1g) = 0.583 W/kg; SAR(10g) = 0.344 W/kg

Maximum value of SAR (interpolated) = 0.728 W/kg

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0 dB = 0.728 W/kg = -1.38 dBW/kg

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Left-Hand-Side HSL - CDMA 1900 BC1/Touch Position -- CDMA 1900

BC1_chan600_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 9.533 V/m; **Power Drift = 0.066 dB**

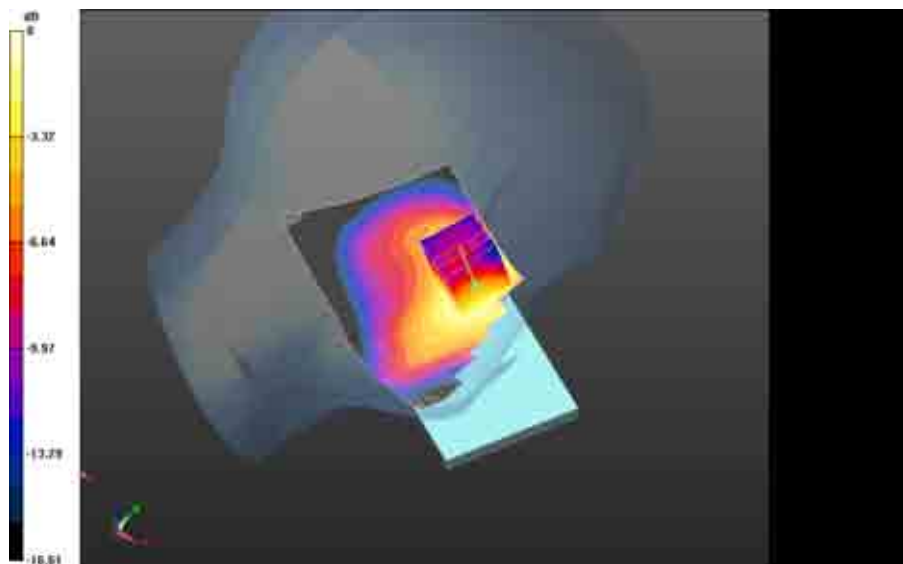
Left-Hand-Side HSL - CDMA 1900 BC1/Touch Position -- CDMA 1900

BC1_chan600_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.533 V/m; **Power Drift = 0.066 dB**

Averaged SAR: SAR(1g) = 0.725 W/kg; SAR(10g) = 0.467 W/kg

Maximum value of SAR (interpolated) = 1.03 W/kg



0 dB = 0.728 W/kg = -1.38 dBW/kg

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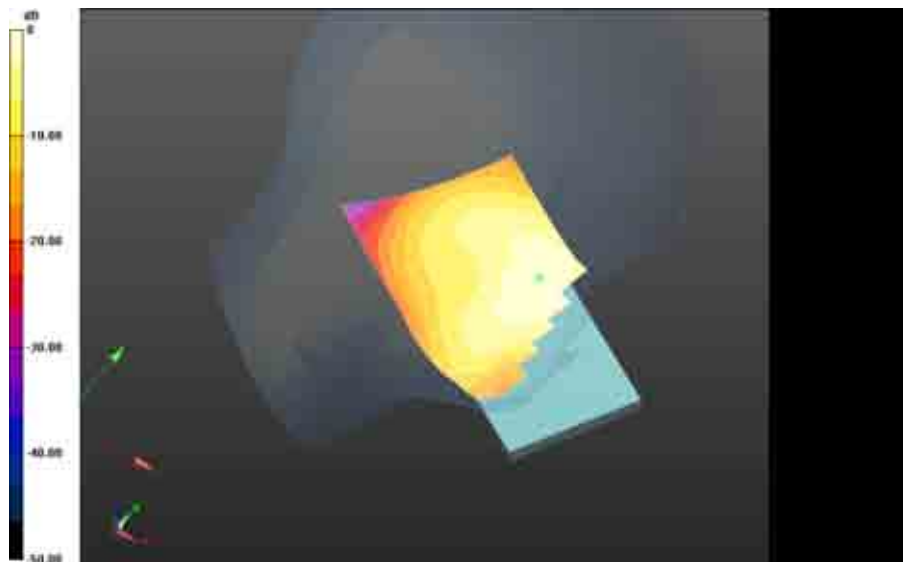
Left-Hand-Side HSL - CDMA 1900 BC1/Touch Position -- CDMA 1900

BC1_chan1175_amb_temp_23.2C_liq_temp_22.3C 2/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 10.612 V/m; **Power Drift = -0.090 dB**

Fast SAR: SAR(1g) = 0.626 W/kg; SAR(10g) = 0.368 W/kg

Maximum value of SAR (interpolated) = 0.789 W/kg



0 dB = 0.840 W/kg = -0.76 dBW/kg

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Left-Hand-Side HSL - CDMA 1900 BC1/Tilt Position -- CDMA 1900

BC1_chan600_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 16.337 V/m; **Power Drift = 0.031 dB**

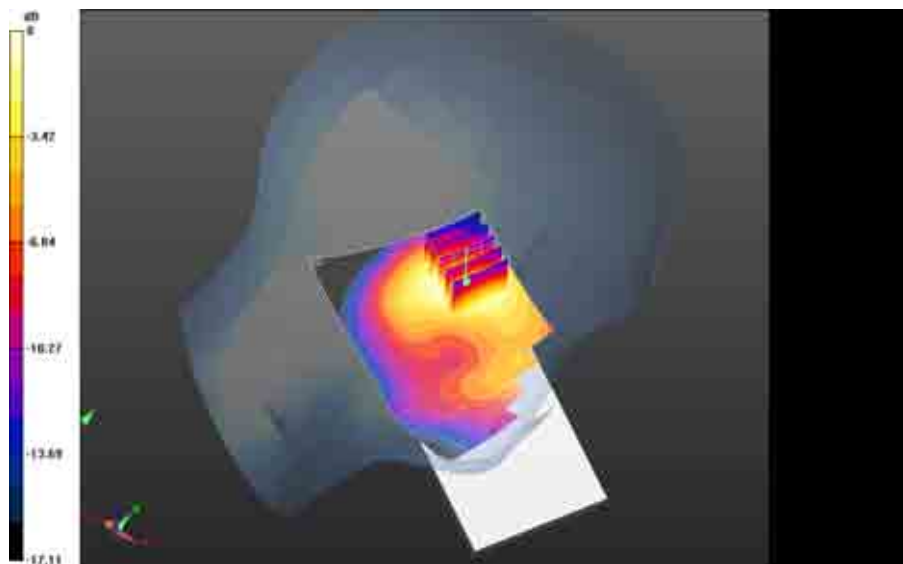
Left-Hand-Side HSL - CDMA 1900 BC1/Tilt Position -- CDMA 1900

BC1_chan600_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0: Interpolated
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 16.337 V/m; **Power Drift = 0.031 dB**

Averaged SAR: SAR(1g) = 0.423 W/kg; SAR(10g) = 0.265 W/kg

Maximum value of SAR (interpolated) = 0.617 W/kg



0 dB = 0.789 W/kg = -1.03 dBW/kg

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802.11b/g full power

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Date: 8/6/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - 802.11g

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2412 MHz

Medium Parameters used: $f=2412$ MHz; $\sigma = 1.827$ S/m; $\epsilon_r = 37.553$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan1_amb_temp_23.2C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan1_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan (36x31x36)/Cube 0:

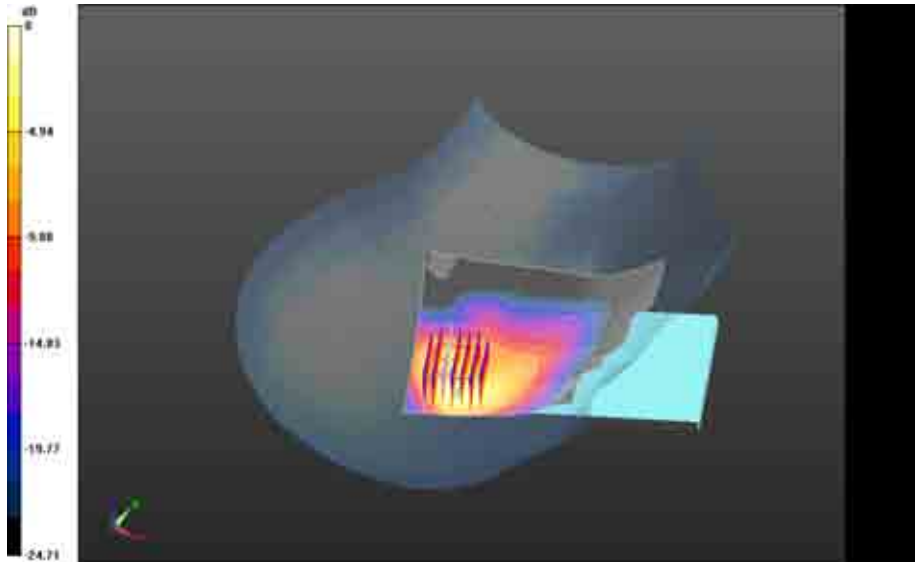
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 11.715 V/m; **Power Drift = 0.020 dB**

Averaged SAR: SAR(1g) = 0.666 W/kg; SAR(10g) = 0.336 W/kg

Maximum value of SAR (interpolated) = 1.37 W/kg

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0 dB = 0.866 W/kg = -0.62 dBW/kg

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Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

Right-Hand-Side HSL - 802.11g/Touch Position -

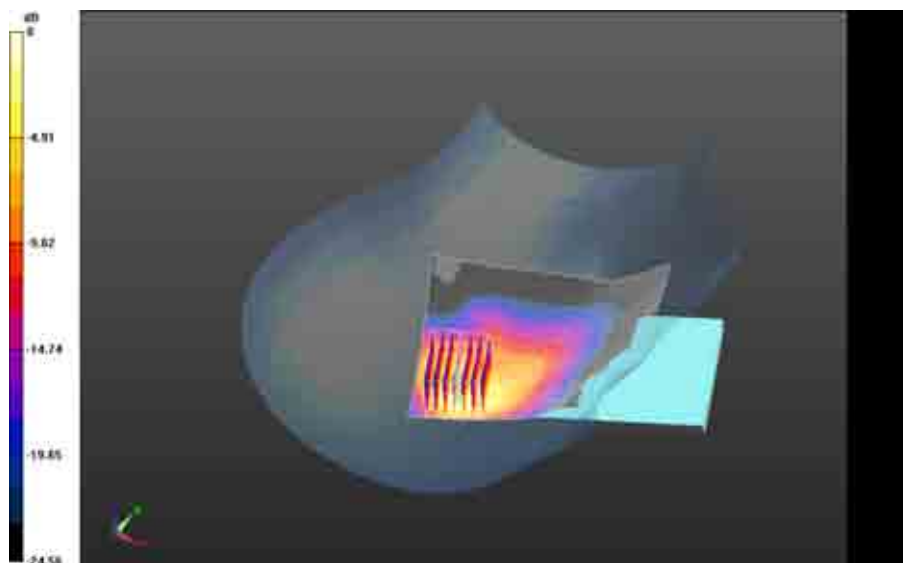
802.11g_chan6_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan (36x31x36)/Cube 0:

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

Reference Value = 10.183 V/m; **Power Drift = 0.369 dB**

Averaged SAR: SAR(1g) = 0.747 W/kg; SAR(10g) = 0.380 W/kg

Maximum value of SAR (interpolated) = 1.49 W/kg



0 dB = 0.866 W/kg = -0.62 dBW/kg

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Right-Hand-Side HSL - 802.11b/Touch Position -

802.11b_chan11_amb_temp_23.3C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.730 W/kg

Right-Hand-Side HSL - 802.11b/Touch Position -

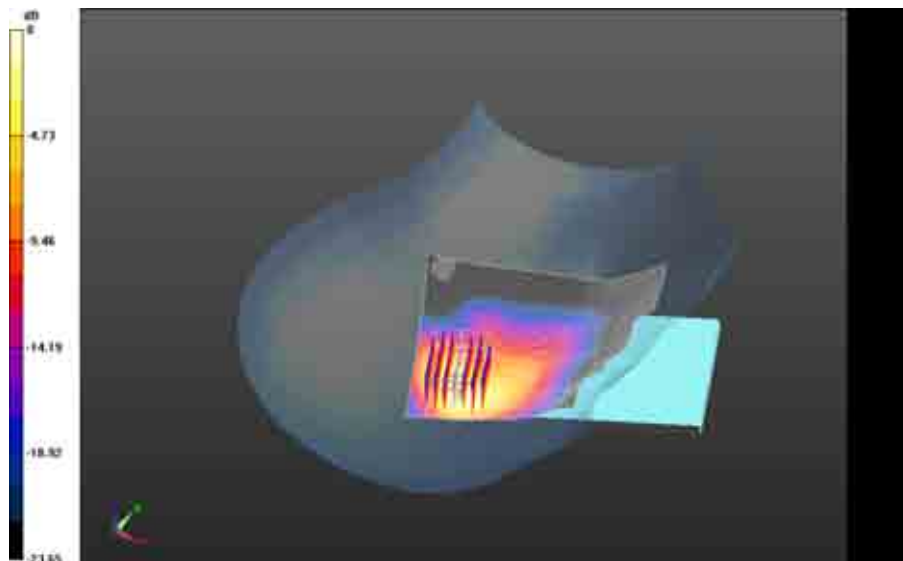
802.11b_chan11_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (36x31x36)/Cube 0:

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

Reference Value = 9.145 V/m; **Power Drift = 0.089 dB**

Averaged SAR: SAR(1g) = 0.478 W/kg; SAR(10g) = 0.241 W/kg

Maximum value of SAR (interpolated) = 0.938 W/kg



0 dB = 0.961 W/kg = -0.17 dBW/kg

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Right-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan1_amb_temp_23.1C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

Right-Hand-Side HSL - 802.11g/Tilt Position -

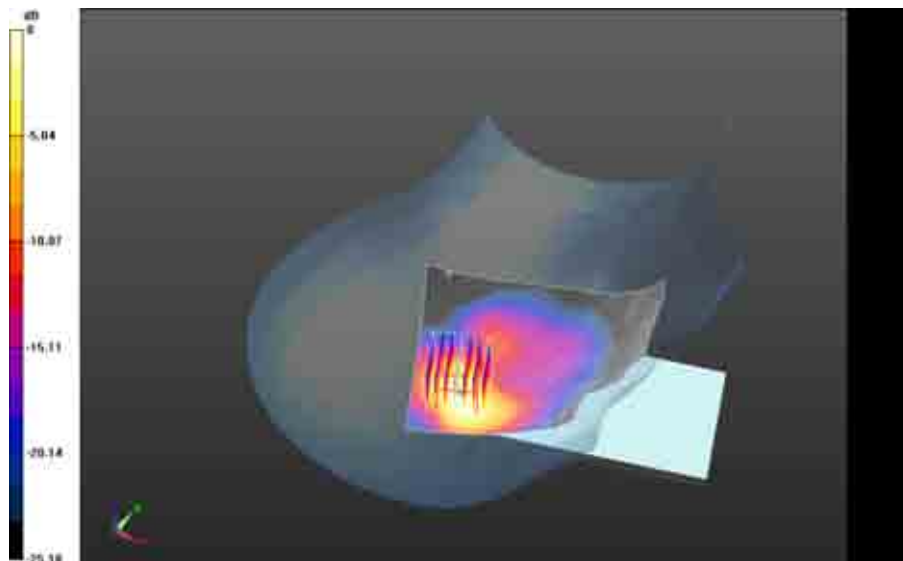
802.11g_chan1_amb_temp_23.1C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 11.001 V/m; **Power Drift = 0.00291 dB**

Averaged SAR: SAR(1g) = 0.812 W/kg; SAR(10g) = 0.355 W/kg

Maximum value of SAR (interpolated) = 1.69 W/kg



0 dB = 0.616 W/kg = -2.10 dBW/kg

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Right-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

Right-Hand-Side HSL - 802.11g/Tilt Position -

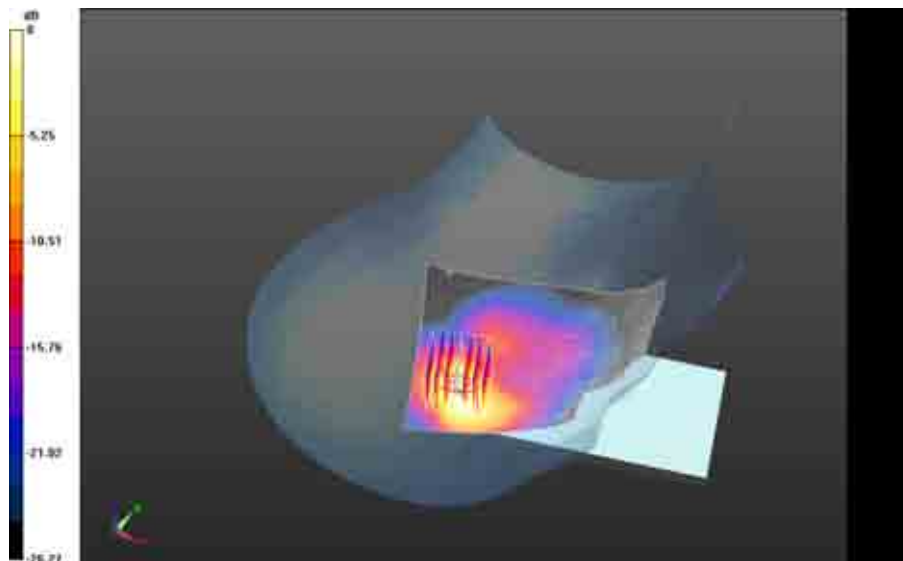
802.11g_chan6_amb_temp_23.3C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 11.444 V/m; **Power Drift = 0.028 dB**

Averaged SAR: SAR(1g) = 0.880 W/kg; SAR(10g) = 0.388 W/kg

Maximum value of SAR (interpolated) = 1.78 W/kg



0 dB = 0.970 W/kg = -0.13 dBW/kg

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Right-Hand-Side HSL - 802.11b/Tilt Position -

802.11b_chan11_amb_temp_23.2C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.788 W/kg

Right-Hand-Side HSL - 802.11b/Tilt Position -

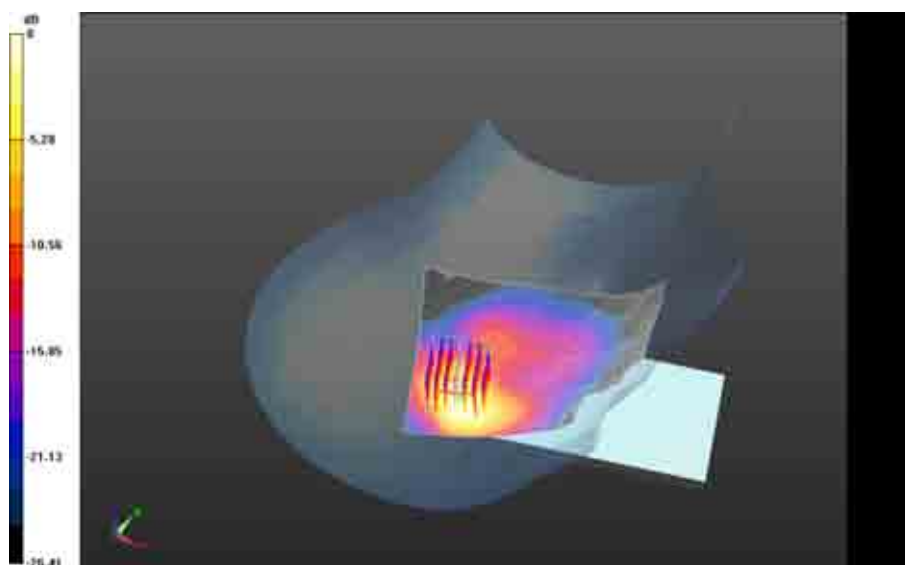
802.11b_chan11_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 9.277 V/m; **Power Drift = 0.00356 dB**

Averaged SAR: SAR(1g) = 0.578 W/kg; SAR(10g) = 0.253 W/kg

Maximum value of SAR (interpolated) = 1.22 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 8/7/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - 802.11g

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.496$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Area Scan (81x111x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.559 W/kg

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Zoom Scan (31x31x36)/Cube 0:

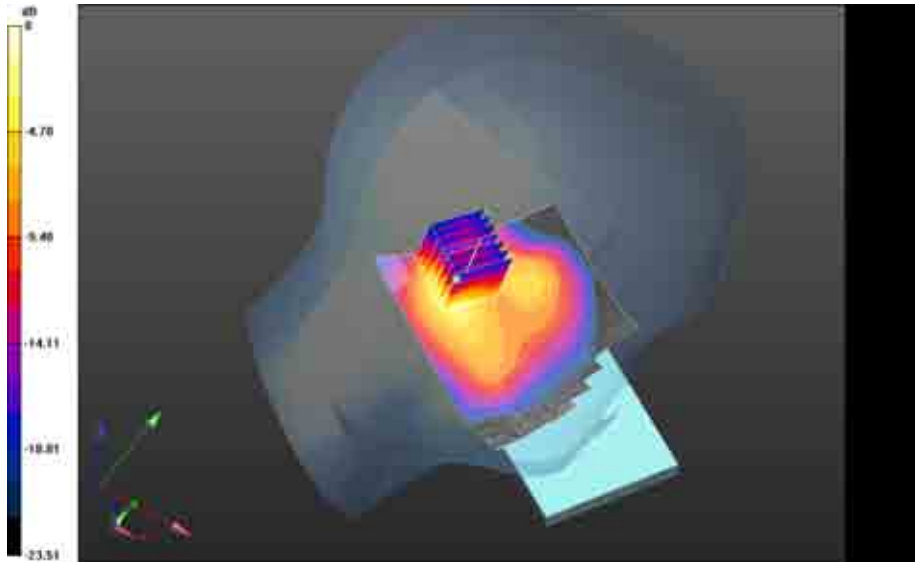
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 12.747 V/m; **Power Drift = -0.032 dB**

Averaged SAR: SAR(1g) = 0.449 W/kg; SAR(10g) = 0.212 W/kg

Maximum value of SAR (interpolated) = 0.886 W/kg

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0 dB = 0.584 W/kg = -2.34 dBW/kg

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Left-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.653 W/kg

Left-Hand-Side HSL - 802.11g/Tilt Position -

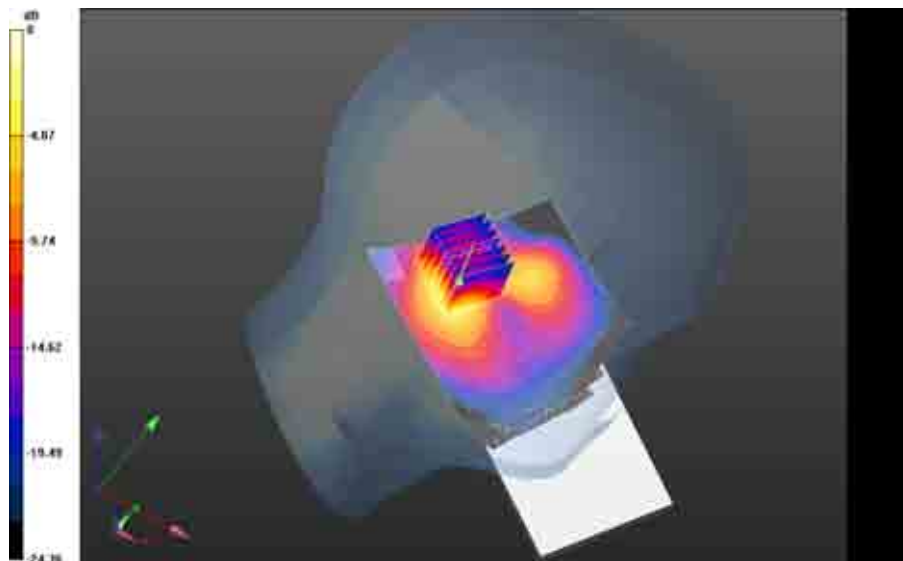
802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 12.072 V/m; **Power Drift = 0.016 dB**

Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.229 W/kg

Maximum value of SAR (interpolated) = 0.971 W/kg



0 dB = 0.584 W/kg = -2.34 dBW/kg

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802.11g CDMA_BC1 Power level

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Date: 7/24/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - 802.11g

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 37.930$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_22.9C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

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

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_22.9C/Zoom Scan (36x31x36)/Cube 0:

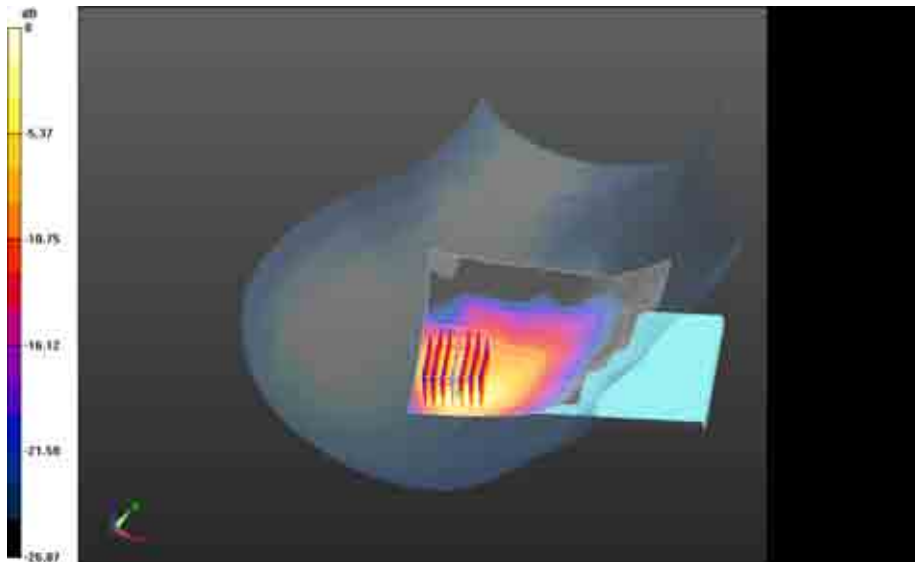
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.617 V/m; **Power Drift = 0.200 dB**

Averaged SAR: SAR(1g) = 0.346 W/kg; SAR(10g) = 0.177 W/kg

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

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0 dB = 0.443 W/kg = -3.54 dBW/kg

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Right-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

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

Right-Hand-Side HSL - 802.11g/Tilt Position -

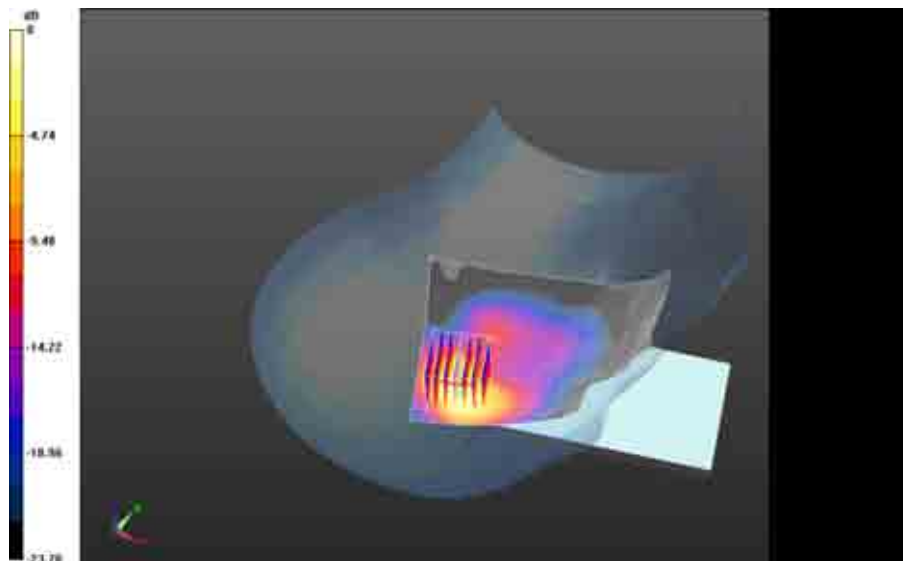
802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 5.591 V/m; **Power Drift = 0.222 dB**

Averaged SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.191 W/kg

Maximum value of SAR (interpolated) = 0.865 W/kg



0 dB = 0.443 W/kg = -3.54 dBW/kg

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Date: 7/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - 802.11g

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 37.930$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Area Scan (81x111x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.249 W/kg

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Zoom Scan (31x31x36)/Cube 0:

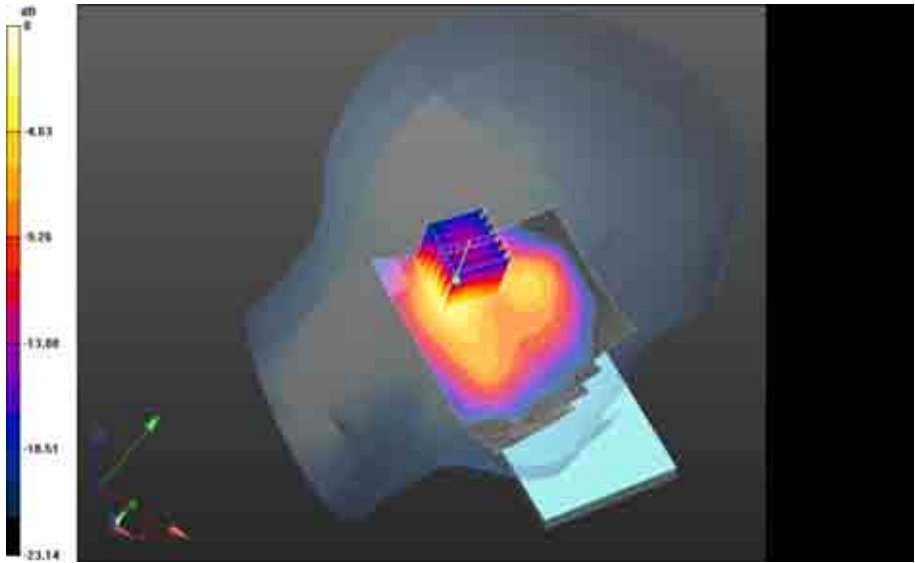
Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm, $dz=1.000$ mm

Reference Value = 8.650 V/m; **Power Drift = 0.018 dB**

Averaged SAR: SAR(1g) = 0.203 W/kg; SAR(10g) = 0.0975 W/kg

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

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0 dB = 0.262 W/kg = -5.82 dBW/kg

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Left-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.294 W/kg

Left-Hand-Side HSL - 802.11g/Tilt Position -

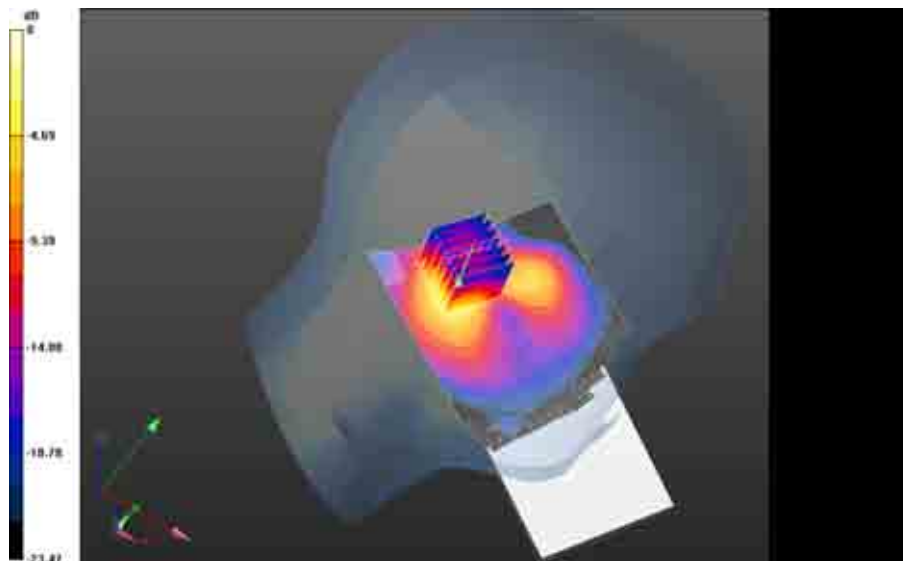
802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 7.343 V/m; **Power Drift = 0.147 dB**

Averaged SAR: SAR(1g) = 0.220 W/kg; SAR(10g) = 0.102 W/kg

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



0 dB = 0.262 W/kg = -5.82 dBW/kg

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802.11g SVLTE CDMA BC1 25 Power level

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Date: 8/6/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Right-Hand-Side HSL - 802.11g

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.496$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.134 W/kg

Right-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan (36x31x36)/Cube 0:

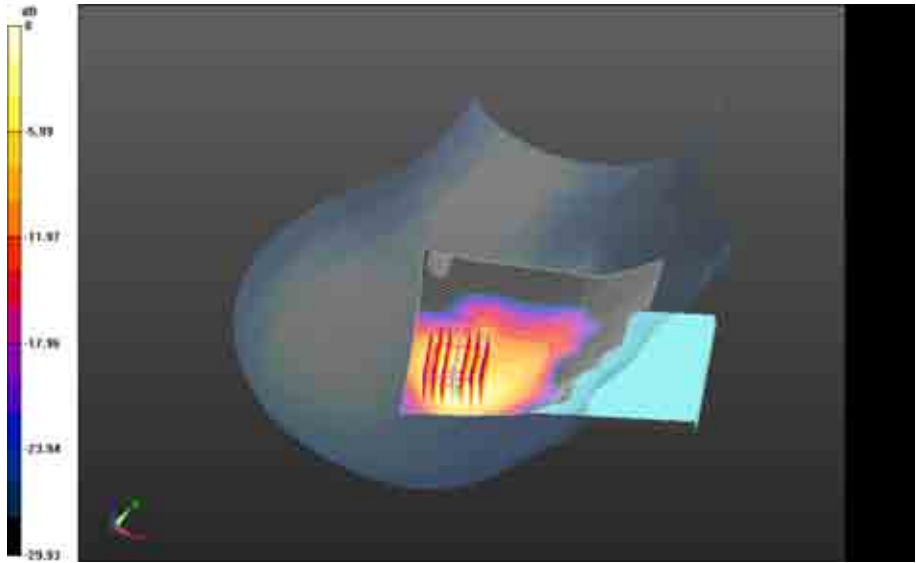
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.285 V/m; **Power Drift = 0.078 dB**

Averaged SAR: SAR(1g) = 0.0891 W/kg; SAR(10g) = 0.0446 W/kg

Maximum value of SAR (interpolated) = 0.179 W/kg

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0 dB = 0.113 W/kg = -9.47 dBW/kg

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Right-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.1C_liq_temp_22.2C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

Right-Hand-Side HSL - 802.11g/Tilt Position -

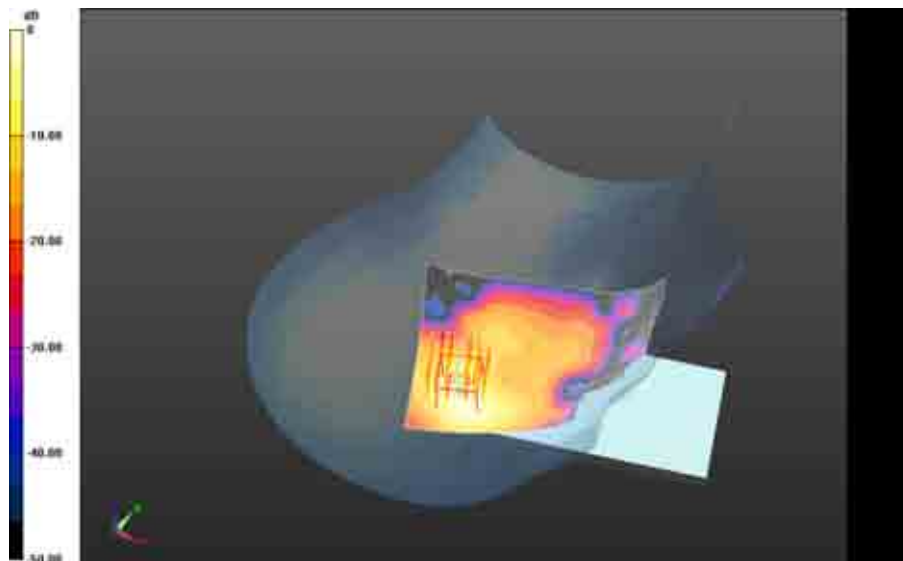
802.11g_chan6_amb_temp_23.1C_liq_temp_22.2C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 4.087 V/m; **Power Drift = 0.143 dB**

Averaged SAR: SAR(1g) = 0.107 W/kg; SAR(10g) = 0.0470 W/kg

Maximum value of SAR (interpolated) = 0.219 W/kg



0 dB = 0.113 W/kg = -9.47 dBW/kg

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Date: 8/7/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Left-Hand-Side HSL - 802.11g

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.496$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Area Scan (81x111x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0647 W/kg

Left-Hand-Side HSL - 802.11g/Touch Position -

802.11g_chan6_amb_temp_23.3C_liq_temp_22.9C/Zoom Scan (31x31x36)/Cube 0:

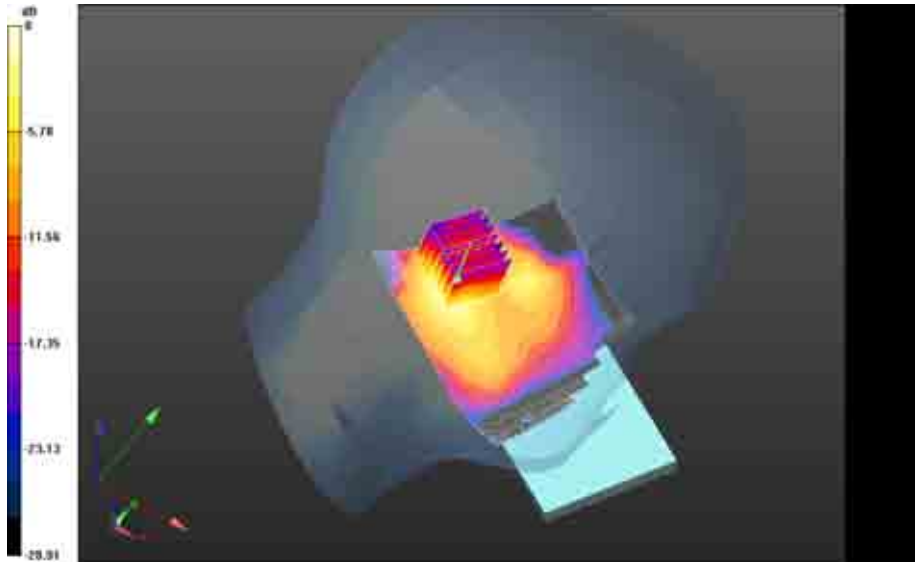
Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm, $dz=1.000$ mm

Reference Value = 4.386 V/m; **Power Drift = 0.131 dB**

Averaged SAR: SAR(1g) = 0.0513 W/kg; SAR(10g) = 0.0239 W/kg

Maximum value of SAR (interpolated) = 0.104 W/kg

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0 dB = 0.0666 W/kg = -11.77 dBW/kg

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Left-Hand-Side HSL - 802.11g/Tilt Position -

802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0771 W/kg

Left-Hand-Side HSL - 802.11g/Tilt Position -

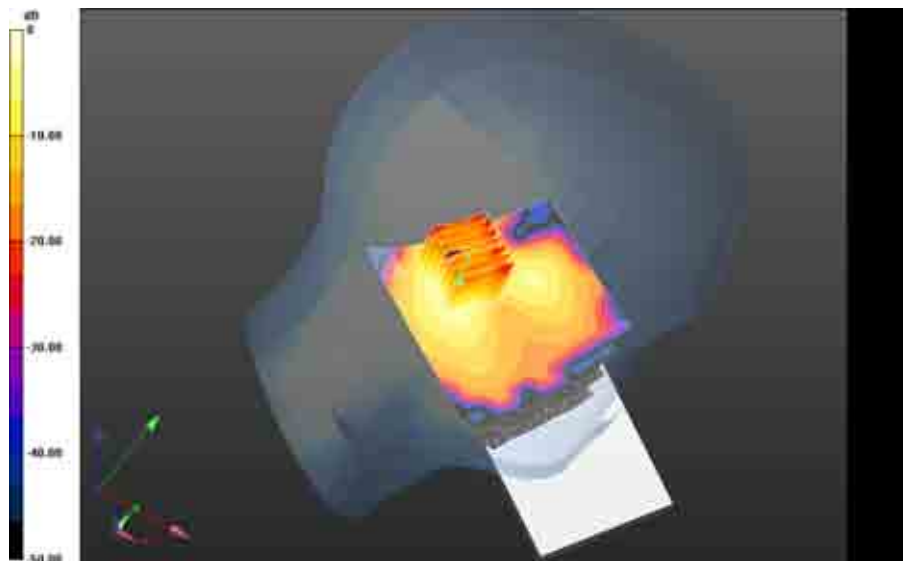
802.11g_chan6_amb_temp_23.2C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 4.194 V/m; **Power Drift = 0.152 dB**

Averaged SAR: SAR(1g) = 0.0590 W/kg; SAR(10g) = 0.0269 W/kg

Maximum value of SAR (interpolated) = 0.117 W/kg



0 dB = 0.0666 W/kg = -11.77 dBW/kg

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Bluetooth

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Date: 6/17/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Right-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2402 MHz

Medium Parameters used: $f=2402$ MHz; $\sigma = 1.710$ S/m; $\epsilon_r = 39.557$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan0_amb_temp_23.1C_liq_temp_21.7C/Area Scan (81x131x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.125 W/kg

Right-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan0_amb_temp_23.1C_liq_temp_21.7C/Zoom Scan (36x36x36)/Cube 0:

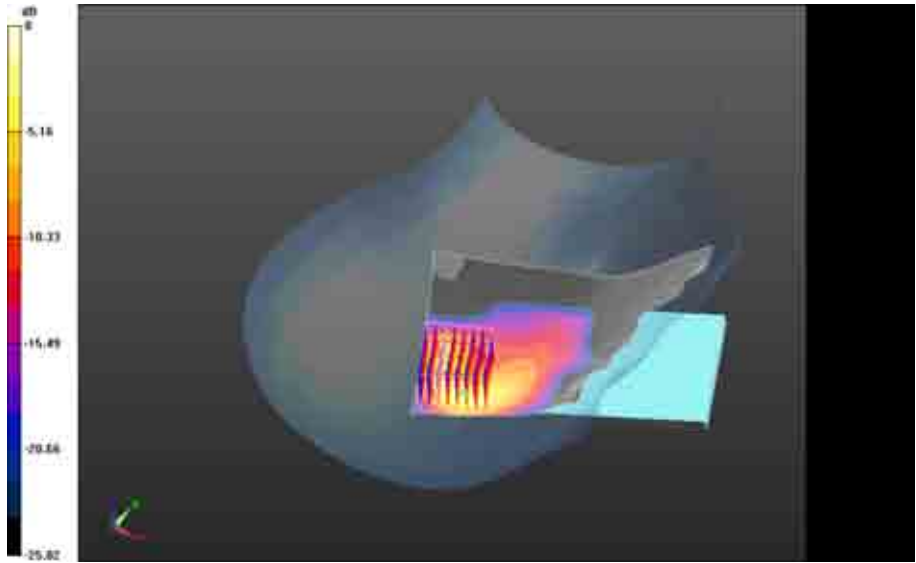
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 4.223 V/m; **Power Drift = 0.230 dB**

Averaged SAR: SAR(1g) = 0.0974 W/kg; SAR(10g) = 0.0461 W/kg

Maximum value of SAR (interpolated) = 0.208 W/kg

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0 dB = 0.135 W/kg = -8.70 dBW/kg

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Right-Hand-Side HSL - Bluetooth/Tilt Position -

Bluetooth_chan0_amb_temp_23.3C_liq_temp_22.0C/Area Scan (81x121x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.144 W/kg

Right-Hand-Side HSL - Bluetooth/Tilt Position -

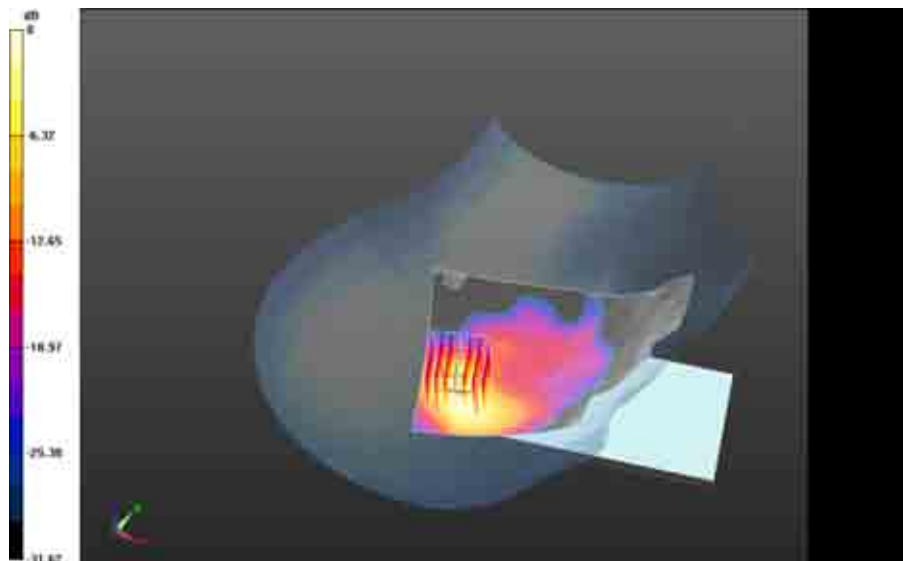
Bluetooth_chan0_amb_temp_23.3C_liq_temp_22.0C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 3.621 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.116 W/kg; SAR(10g) = 0.0503 W/kg

Maximum value of SAR (interpolated) = 0.237 W/kg



0 dB = 0.135 W/kg = -8.70 dBW/kg

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Date: 6/18/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Left-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2402 MHz

Medium Parameters used: $f=2402$ MHz; $\sigma = 1.710$ S/m; $\epsilon_r = 39.557$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.8C/Area Scan (81x131x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0702 W/kg

Left-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0:

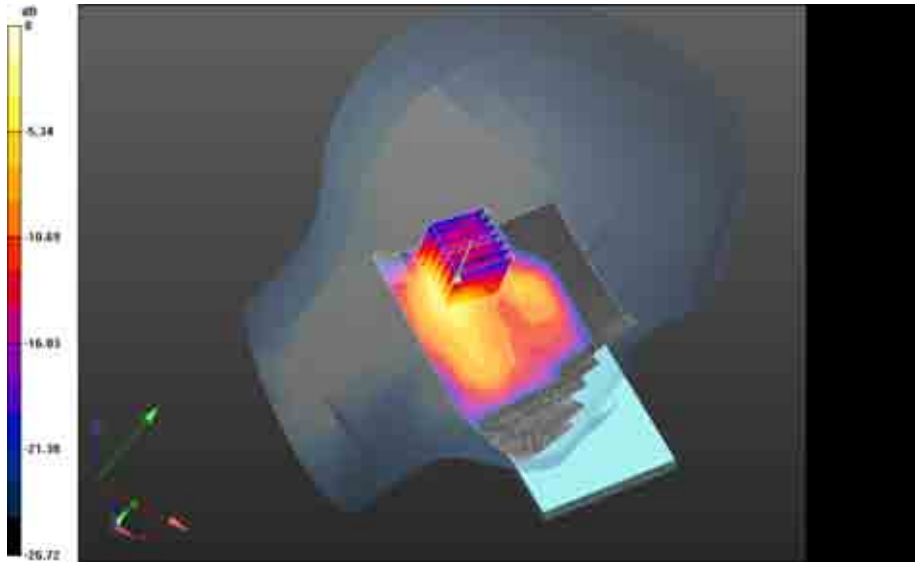
Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm, $dz=1.000$ mm

Reference Value = 4.361 V/m; **Power Drift = 0.149 dB**

Averaged SAR: SAR(1g) = 0.0532 W/kg; SAR(10g) = 0.0243 W/kg

Maximum value of SAR (interpolated) = 0.105 W/kg

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0 dB = 0.0710 W/kg = -11.49 dBW/kg

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Left-Hand-Side HSL - Bluetooth/Tilt Position -

Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.8C/Area Scan (81x111x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0700 W/kg

Left-Hand-Side HSL - Bluetooth/Tilt Position -

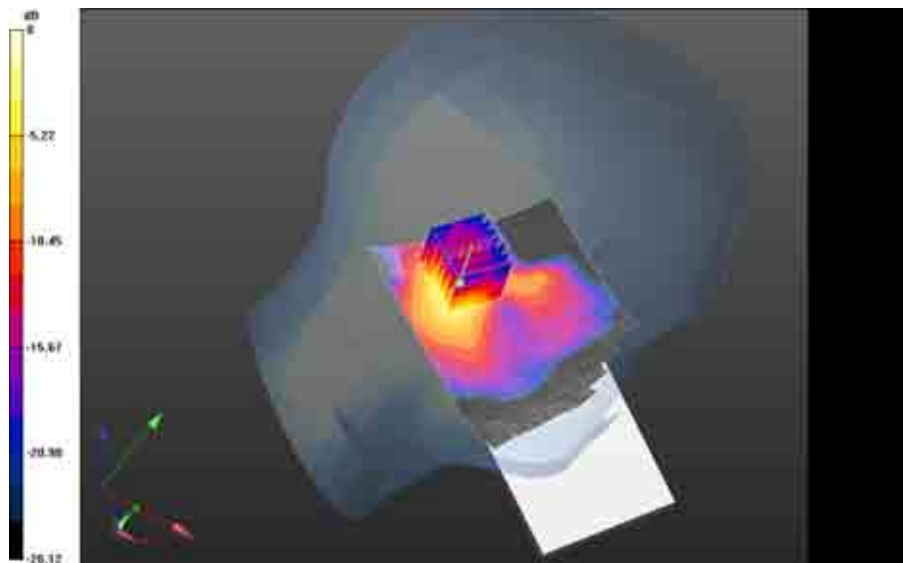
Bluetooth_chan0_amb_temp_23.2C_liq_temp_21.8C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 3.513 V/m; **Power Drift = 0.225 dB**

Averaged SAR: SAR(1g) = 0.0519 W/kg; SAR(10g) = 0.0238 W/kg

Maximum value of SAR (interpolated) = 0.102 W/kg



0 dB = 0.0710 W/kg = -11.49 dBW/kg

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802.11a Full Power

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Date: 6/18/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Right-Hand-Side HSL - 802.11a 5200 MHz

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

Medium Parameters used: $f=5180$ MHz; $\sigma = 4.633$ S/m; $\epsilon_r = 34.505$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.850 W/kg

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (41x41x61)/Cube

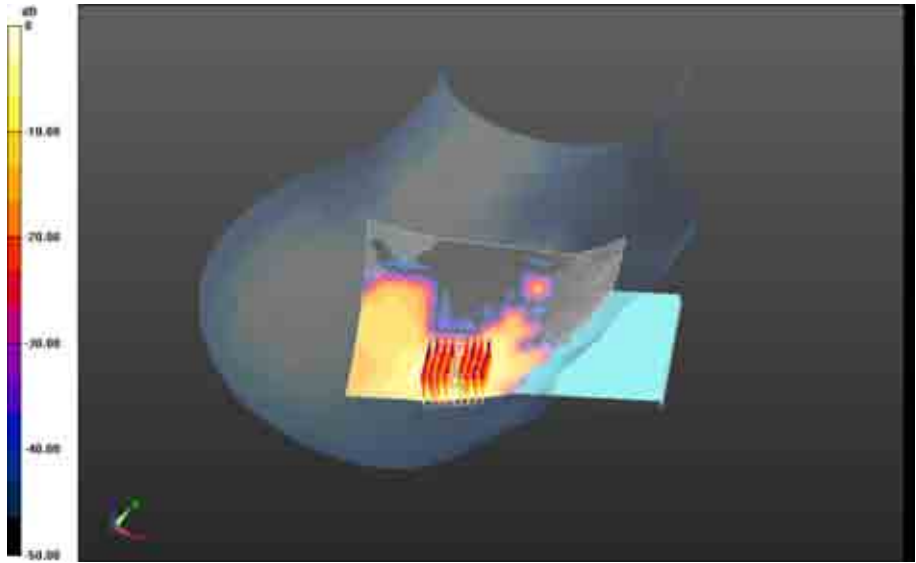
0: Interpolated grid: $dx=0.800$ mm, $dy=0.800$ mm, $dz=0.400$ mm

Reference Value = 3.899 V/m; **Power Drift = 0.462 dB**

Averaged SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.148 W/kg

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

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0 dB = 0.803 W/kg = -0.95 dBW/kg

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Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.7C/Area Scan (101x141x1):

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

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

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

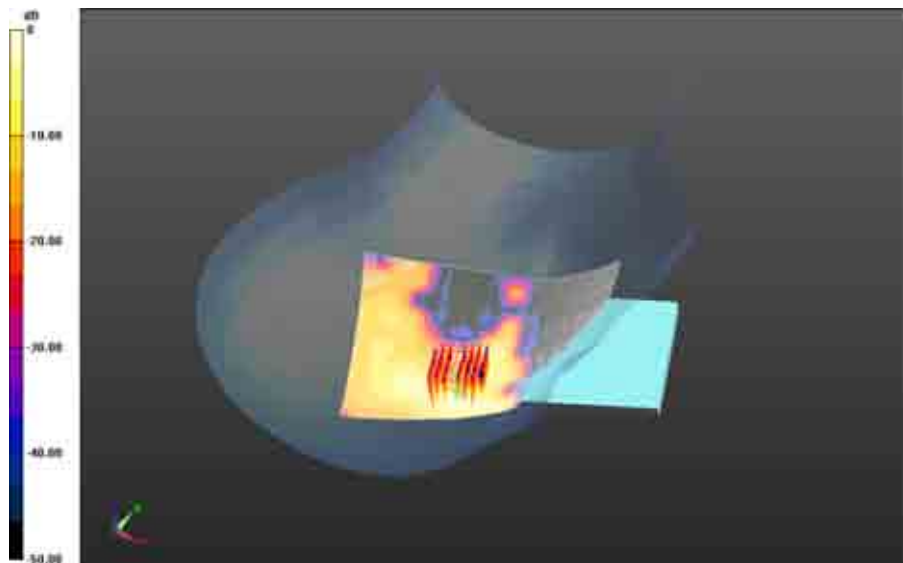
802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.7C/Zoom Scan (36x36x61)/Cube

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

Reference Value = 2.772 V/m; **Power Drift = 0.071 dB**

Averaged SAR: SAR(1g) = 0.382 W/kg; SAR(10g) = 0.138 W/kg

Maximum value of SAR (interpolated) = 1.49 W/kg



0 dB = 0.803 W/kg = -0.95 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Right-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.937$ S/m; $\epsilon_r = 34.089$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 1.11 W/kg

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.7C/Zoom Scan

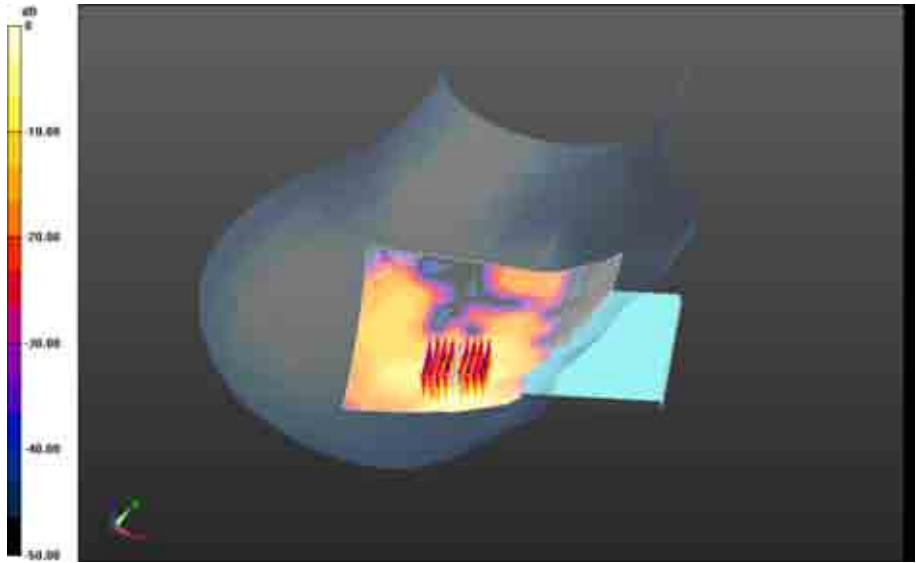
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.741 V/m; **Power Drift = 0.409 dB**

Averaged SAR: SAR(1g) = 0.542 W/kg; SAR(10g) = 0.181 W/kg

Maximum value of SAR (interpolated) = 2.17 W/kg

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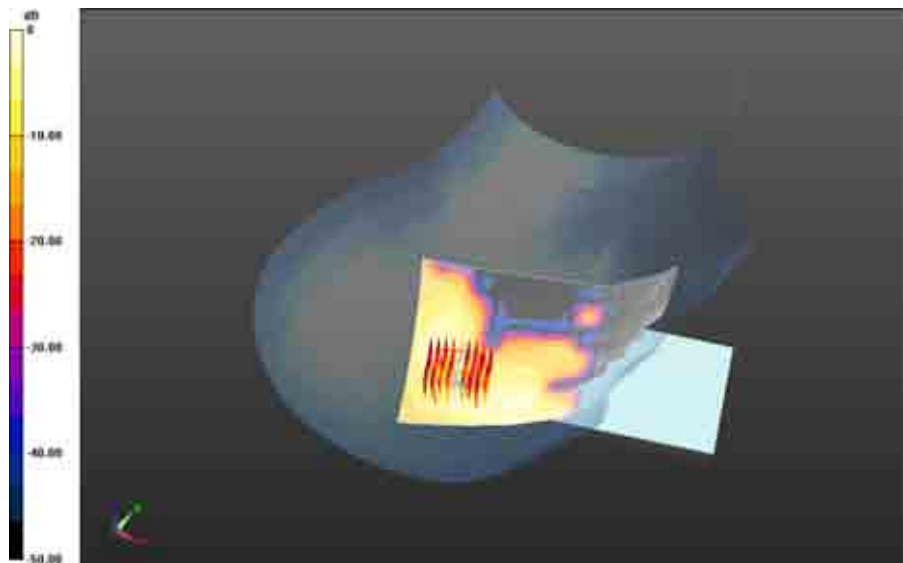
0 dB = 1.06 W/kg = 0.25 dBW/kg

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Right-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.6C/Area Scan (101x141x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.376 W/kg

Right-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.6C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 9.928 V/m; **Power Drift = 0.254 dB**

Averaged SAR: SAR(1g) = 0.206 W/kg; SAR(10g) = 0.0644 W/kg
Maximum value of SAR (interpolated) = 0.851 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Right-Hand-Side HSL - 802.11a 5800 MHz

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

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.272$ S/m; $\epsilon_r = 33.963$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.7C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.983 W/kg

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.7C_liq_temp_21.7C/Zoom Scan

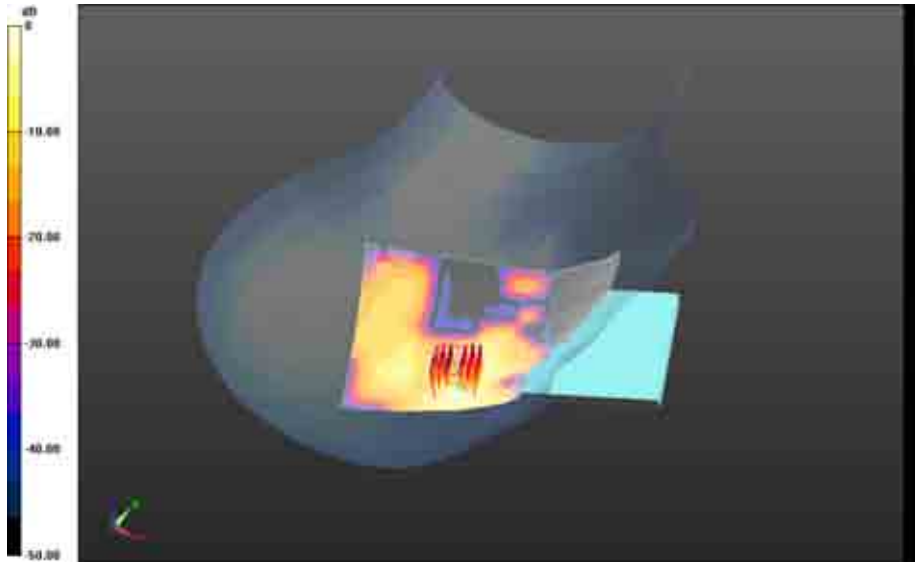
(31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.147 V/m; **Power Drift = 0.247 dB**

Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.170 W/kg

Maximum value of SAR (interpolated) = 1.98 W/kg

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0 dB = 0.974 W/kg = -0.11 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Left-Hand-Side HSL - 802.11a 5200 MHz

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

Medium Parameters used: $f=5180$ MHz; $\sigma = 4.633$ S/m; $\epsilon_r = 34.505$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.3C_liq_temp_21.3C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.244 W/kg

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.3C_liq_temp_21.3C/Zoom Scan (36x36x61)/Cube

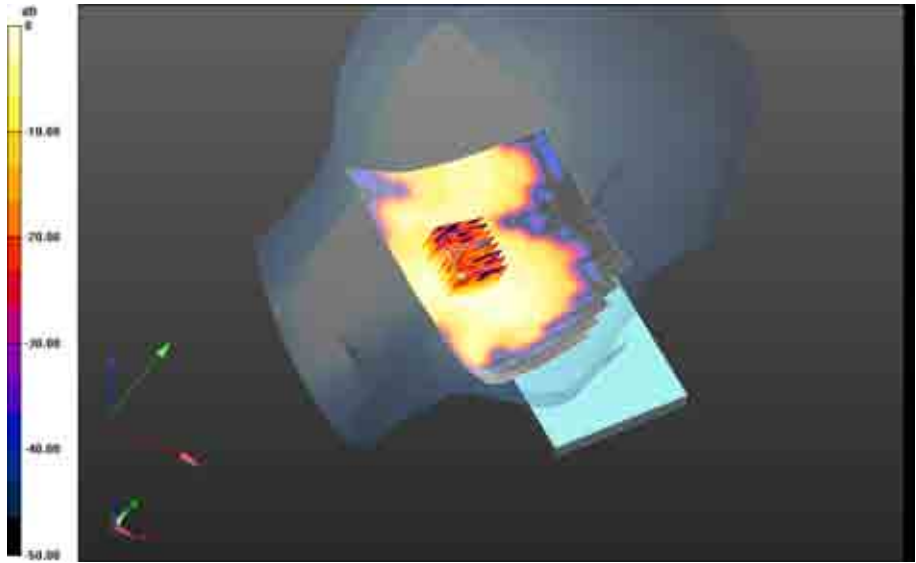
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.536 V/m; **Power Drift = 0.083 dB**

Averaged SAR: SAR(1g) = 0.130 W/kg; SAR(10g) = 0.0535 W/kg

Maximum value of SAR (interpolated) = 0.481 W/kg

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0 dB = 0.241 W/kg = -6.18 dBW/kg

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Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.3C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.296 W/kg

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

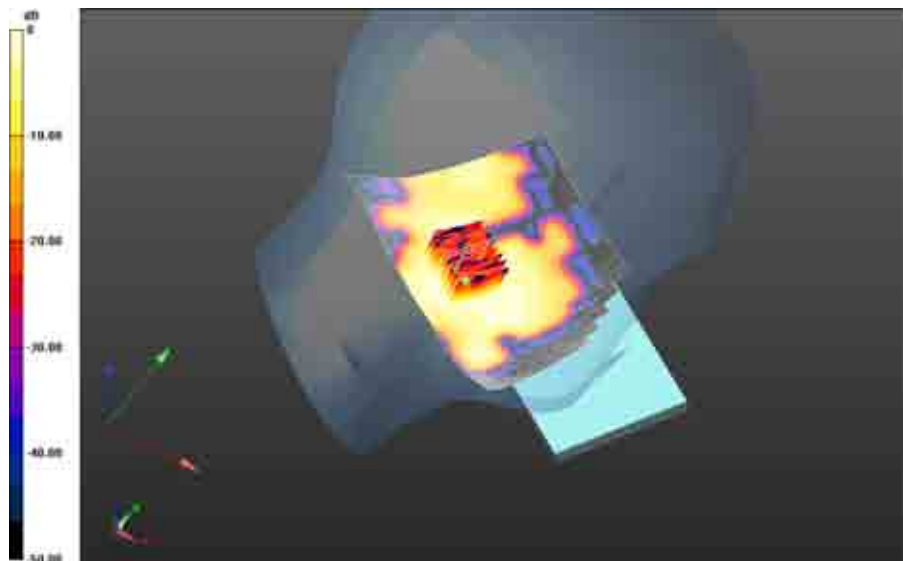
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.3C/Zoom Scan (36x36x61)/Cube

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

Reference Value = 8.757 V/m; **Power Drift = 0.030 dB**

Averaged SAR: SAR(1g) = 0.161 W/kg; SAR(10g) = 0.0658 W/kg

Maximum value of SAR (interpolated) = 0.600 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

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Date: 6/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Left-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.937$ S/m; $\epsilon_r = 34.089$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.3C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.505 W/kg

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan

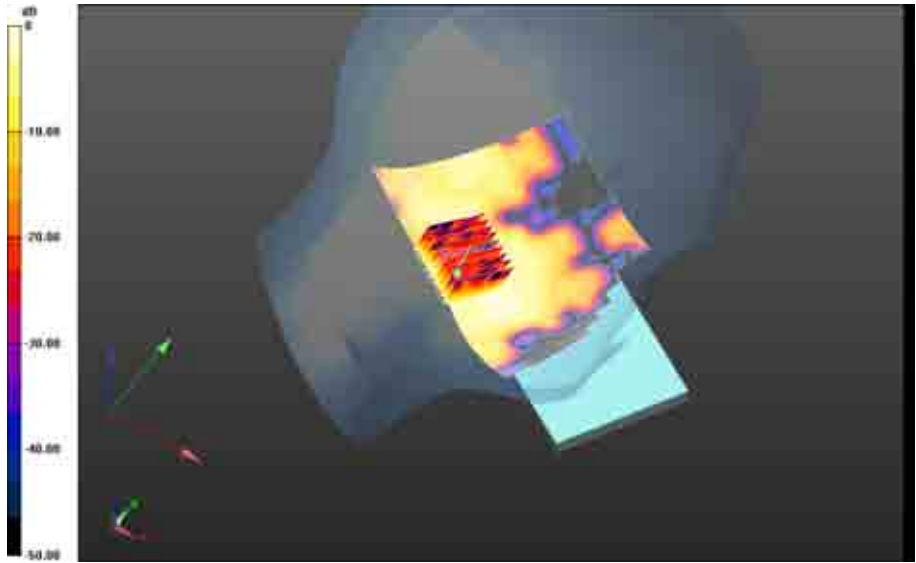
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.618 V/m; **Power Drift = 0.096 dB**

Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.102 W/kg

Maximum value of SAR (interpolated) = 0.960 W/kg

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

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Date: 6/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 333E2854

Configuration: Left-Hand-Side HSL - 802.11a 5800 MHz

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

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.272$ S/m; $\epsilon_r = 33.963$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_21.3C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.533 W/kg

Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan

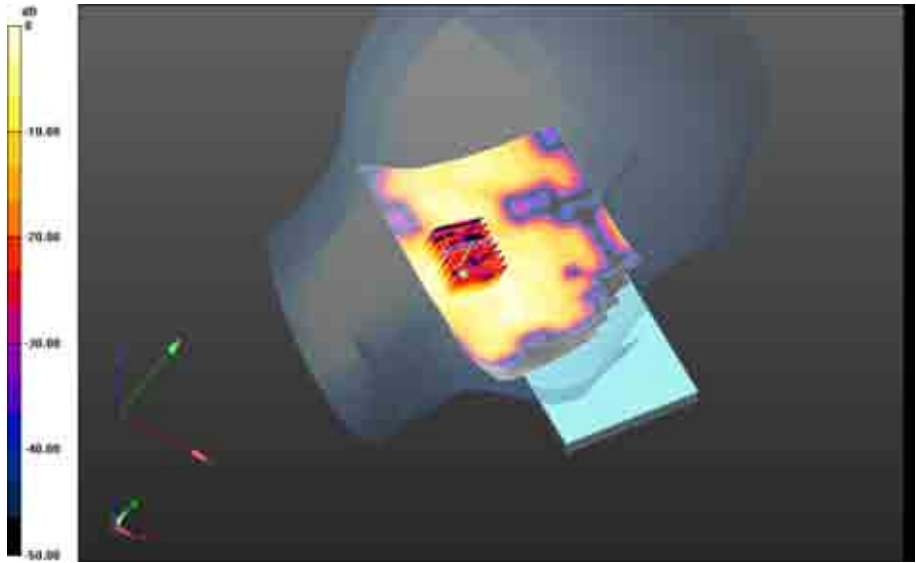
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.760 V/m; **Power Drift = 0.145 dB**

Averaged SAR: SAR(1g) = 0.291 W/kg; SAR(10g) = 0.111 W/kg

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

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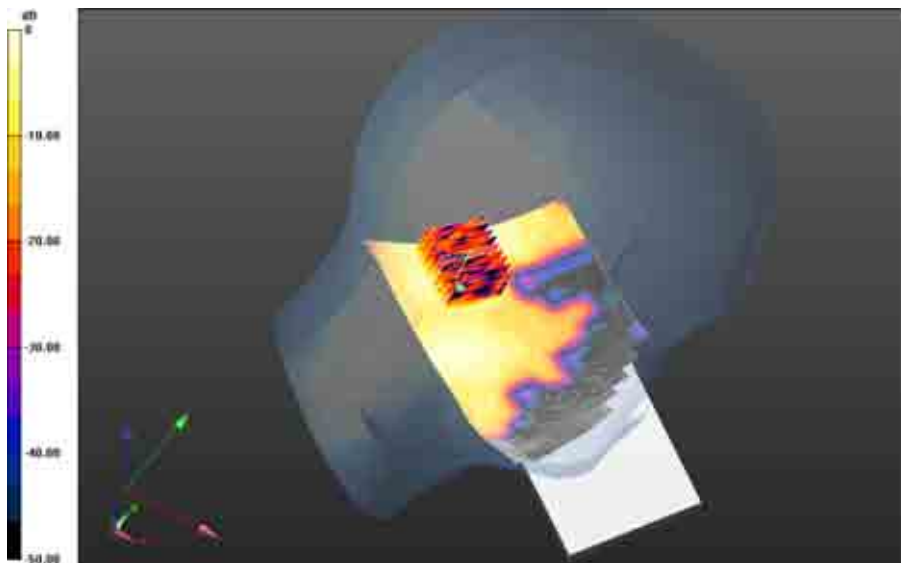
0 dB = 0.548 W/kg = -2.61 dBW/kg

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Left-Hand-Side HSL - 802.11a 5800 MHz/Tilt Position -
802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_21.3C/Area Scan (101x151x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.348 W/kg

Left-Hand-Side HSL - 802.11a 5800 MHz/Tilt Position -
802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 6.967 V/m; **Power Drift = 0.358 dB**

Averaged SAR: SAR(1g) = 0.173 W/kg; SAR(10g) = 0.0548 W/kg
Maximum value of SAR (interpolated) = 0.623 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg

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802.11a, CDMA BC1_power level

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5200 MHz

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

Medium Parameters used: $f=5180$ MHz; $\sigma = 4.577$ S/m; $\epsilon_r = 34.316$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (41x41x61)/Cube

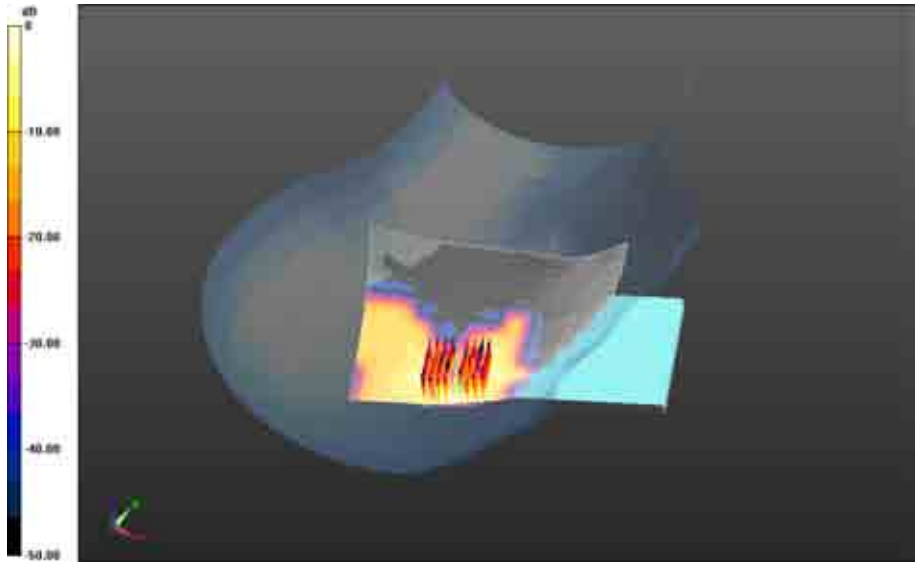
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.098 V/m; **Power Drift = 0.014 dB**

Averaged SAR: SAR(1g) = 0.221 W/kg; SAR(10g) = 0.0749 W/kg

Maximum value of SAR (interpolated) = 0.864 W/kg

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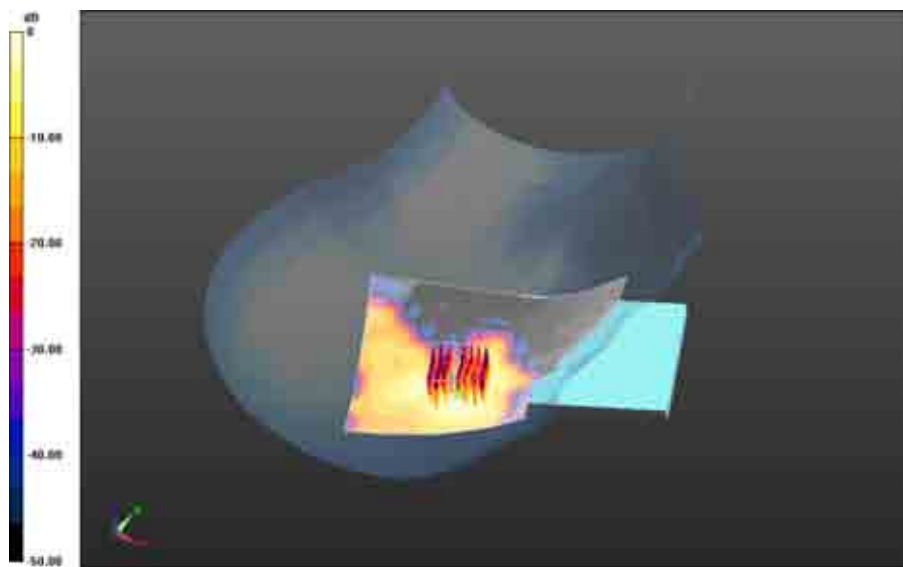


0 dB = 0.435 W/kg = -3.62 dBW/kg

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Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.0C_liq_temp_21.7C/Zoom Scan (36x36x61)/Cube
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 10.443 V/m; Power Drift = 0.164 dB

Averaged SAR: SAR(1g) = 0.272 W/kg; SAR(10g) = 0.0912 W/kg
Maximum value of SAR (interpolated) = 1.12 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.970$ S/m; $\epsilon_r = 34.144$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.7C/Zoom Scan

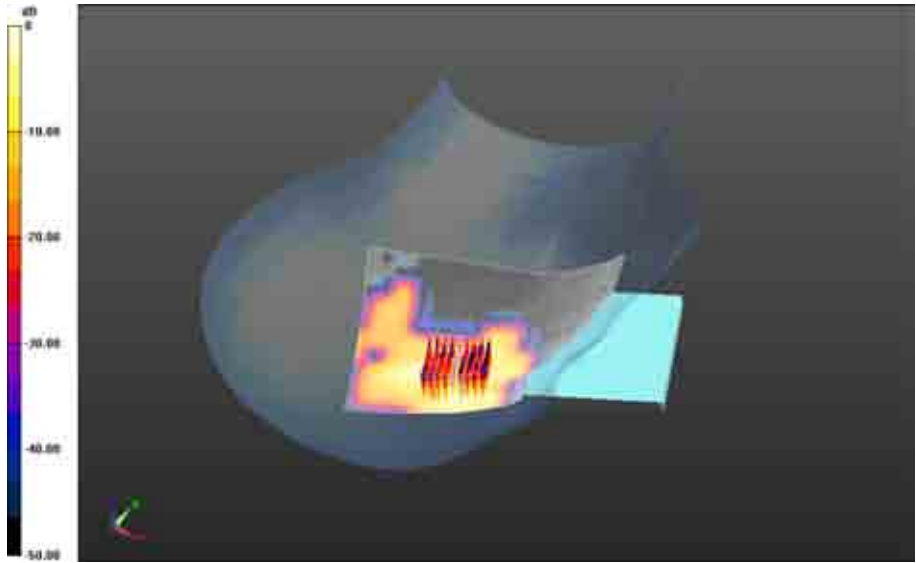
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.919 V/m; **Power Drift = 0.109 dB**

Averaged SAR: SAR(1g) = 0.334 W/kg; SAR(10g) = 0.106 W/kg

Maximum value of SAR (interpolated) = 1.42 W/kg

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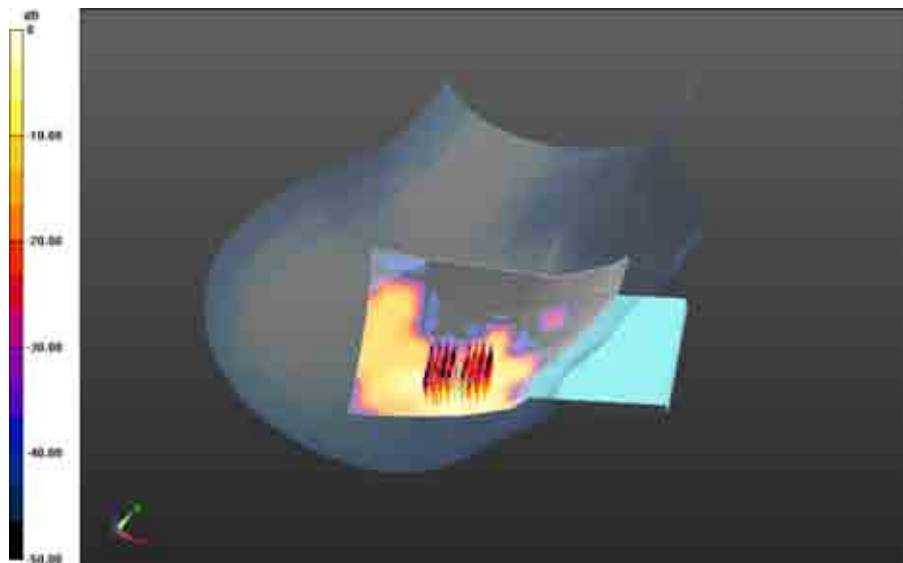


0 dB = 0.680 W/kg = -1.67 dBW/kg

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Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -
802.11n_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.2C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 10.038 V/m; **Power Drift = -0.152 dB**

Averaged SAR: SAR(1g) = 0.235 W/kg; SAR(10g) = 0.0786 W/kg
Maximum value of SAR (interpolated) = 1.02 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5800 MHz

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

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.296$ S/m; $\epsilon_r = 34.088$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

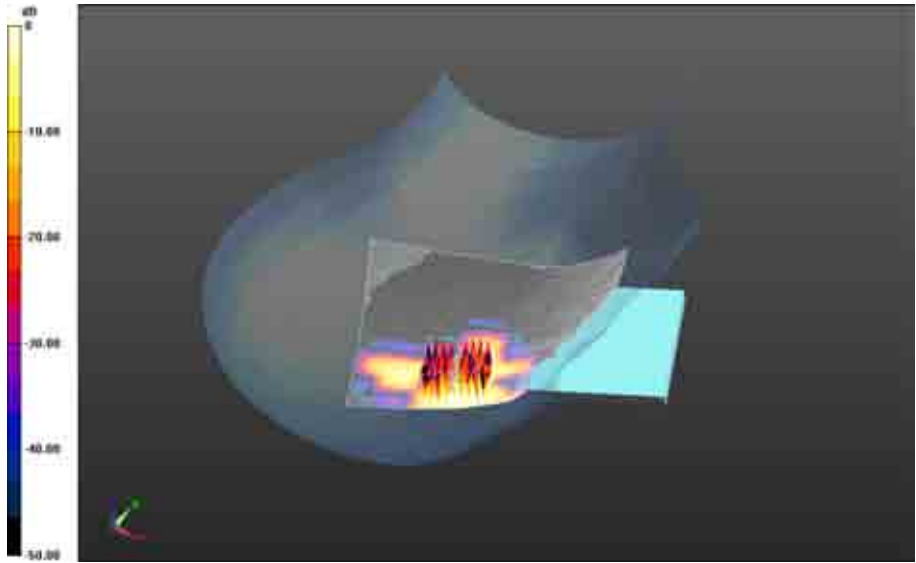
802.11a_chan149_Upper_bandII_amb_temp_23.1C_liq_temp_22.1C/Zoom Scan (36x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 9.066 V/m; **Power Drift = 0.084 dB**

Averaged SAR: SAR(1g) = 0.195 W/kg; SAR(10g) = 0.0643 W/kg

Maximum value of SAR (interpolated) = 0.778 W/kg

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0 dB = 0.393 W/kg = -4.06 dBW/kg

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.970$ S/m; $\epsilon_r = 34.144$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_22.9C_liq_temp_22.2C/Zoom Scan

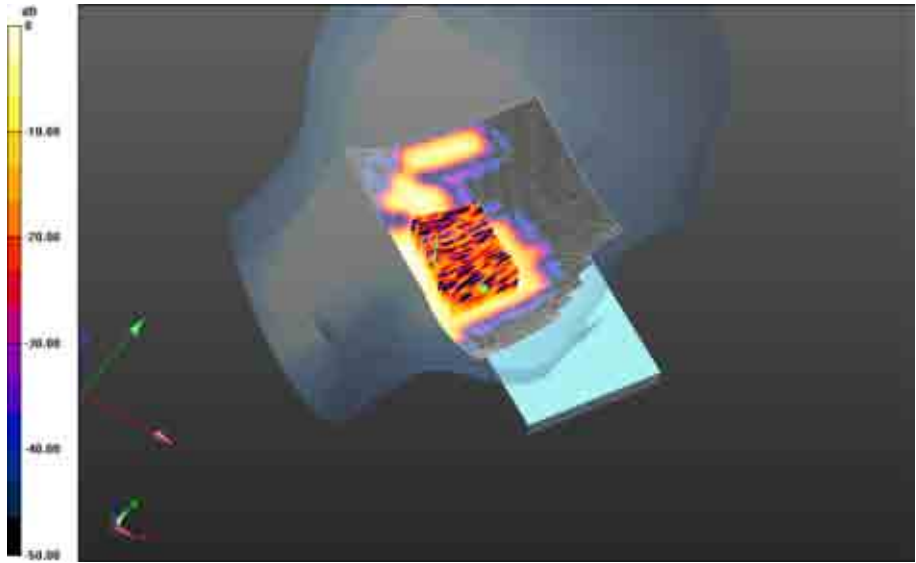
(46x56x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 5.793 V/m; **Power Drift = -0.046 dB**

Averaged SAR: SAR(1g) = 0.0808 W/kg; SAR(10g) = 0.0328 W/kg

Maximum value of SAR (interpolated) = 0.284 W/kg

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0 dB = 0.154 W/kg = -8.12 dBW/kg

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802.11a, SvLTE_CDMA BC1_25_power level

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5200 MHz

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

Medium Parameters used: $f=5180$ MHz; $\sigma = 4.577$ S/m; $\epsilon_r = 34.316$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (41x41x61)/Cube

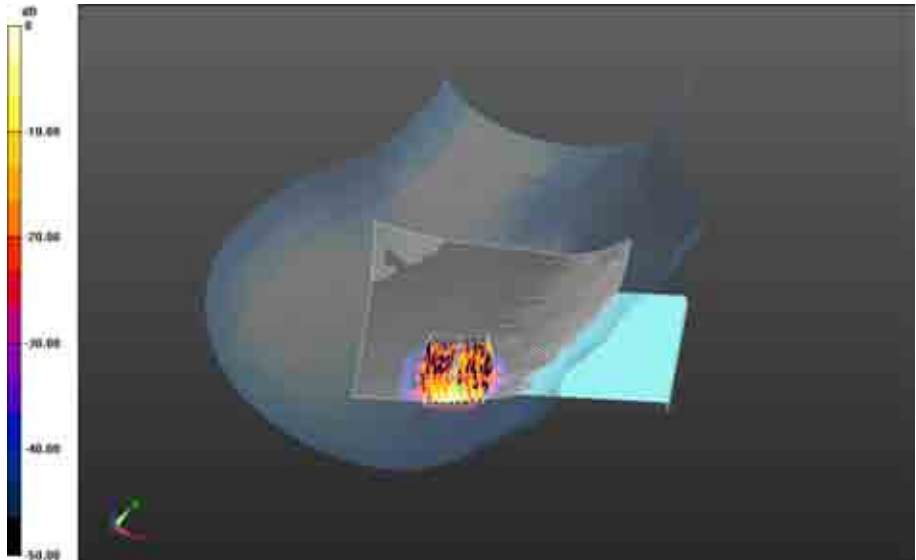
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.461 V/m; **Power Drift = 0.00634 dB**

Averaged SAR: SAR(1g) = 0.0253 W/kg; SAR(10g) = 0.00849 W/kg

Maximum value of SAR (interpolated) = 0.139 W/kg

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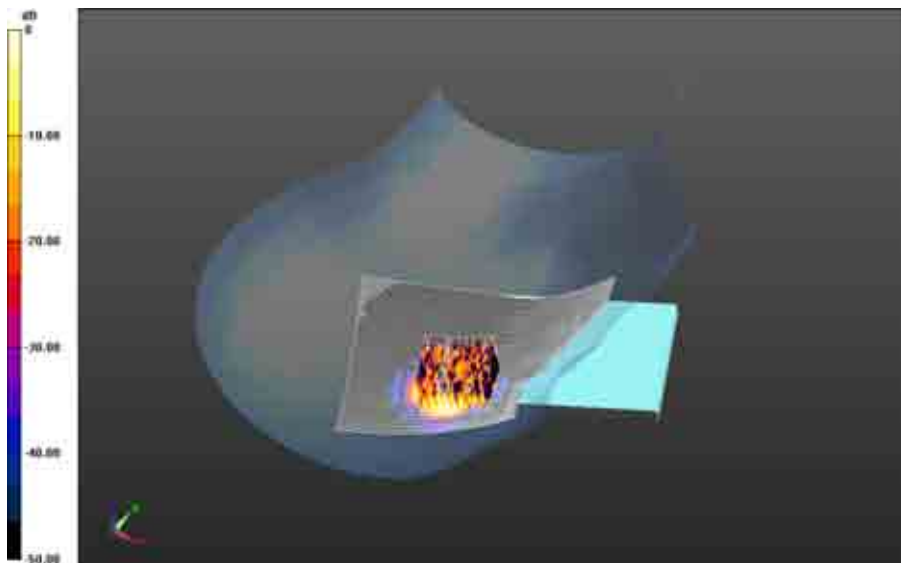


0 dB = 0.0620 W/kg = -12.08 dBW/kg

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Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.0C_liq_temp_21.7C/Zoom Scan (46x46x61)/Cube
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.855 V/m; **Power Drift = 0.181 dB**

Averaged SAR: SAR(1g) = 0.0303 W/kg; SAR(10g) = 0.0108 W/kg
Maximum value of SAR (interpolated) = 0.231 W/kg



0 dB = 0.0620 W/kg = -12.08 dBW/kg

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.970$ S/m; $\epsilon_r = 34.144$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_band1_amb_temp_23.1C_liq_temp_22.2C/Zoom Scan

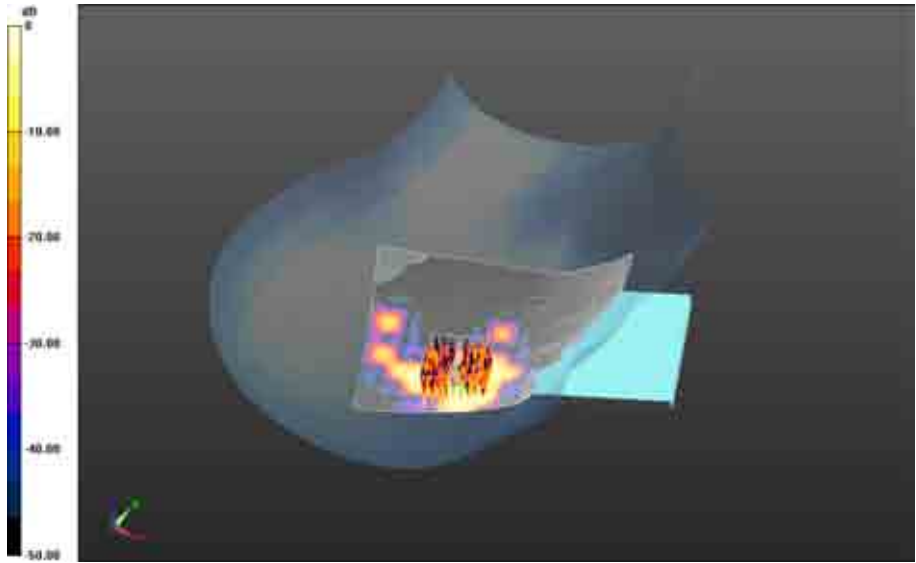
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 5.238 V/m; **Power Drift = -0.059 dB**

Averaged SAR: SAR(1g) = 0.0546 W/kg; SAR(10g) = 0.0177 W/kg

Maximum value of SAR (interpolated) = 0.240 W/kg

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0 dB = 0.120 W/kg = -9.21 dBW/kg

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Date: 8/9/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Right-Hand-Side HSL - 802.11a 5800 MHz

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

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.296$ S/m; $\epsilon_r = 34.088$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.1C_liq_temp_22.1C/Zoom Scan

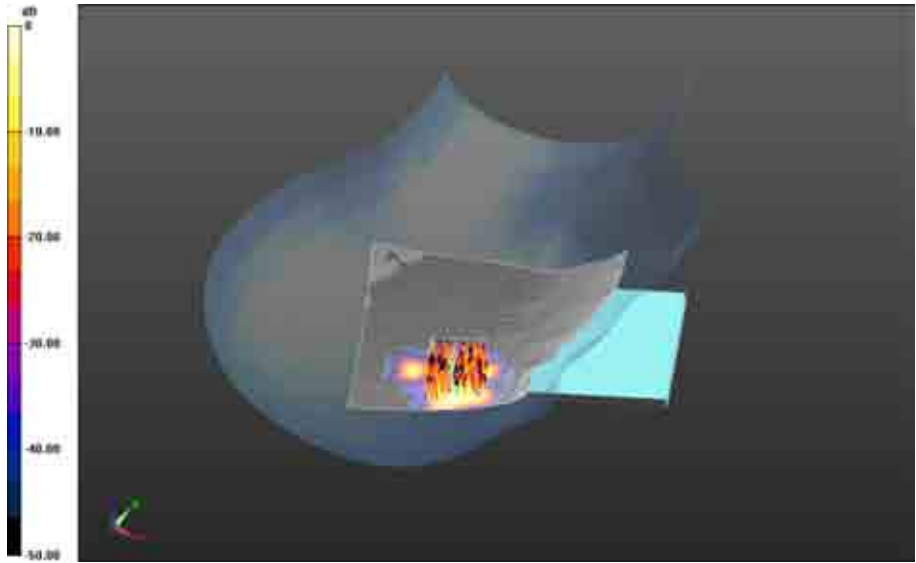
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 4.947 V/m; **Power Drift = -0.0076 dB**

Averaged SAR: SAR(1g) = 0.0491 W/kg; SAR(10g) = 0.0151 W/kg

Maximum value of SAR (interpolated) = 0.221 W/kg

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0 dB = 0.109 W/kg = -9.63 dBW/kg

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Date: 8/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691

Configuration: Left-Hand-Side HSL - 802.11a 5500 MHz

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

Medium Parameters used: $f=5520$ MHz; $\sigma = 4.970$ S/m; $\epsilon_r = 34.144$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_22.9C_liq_temp_22.2C/Zoom Scan

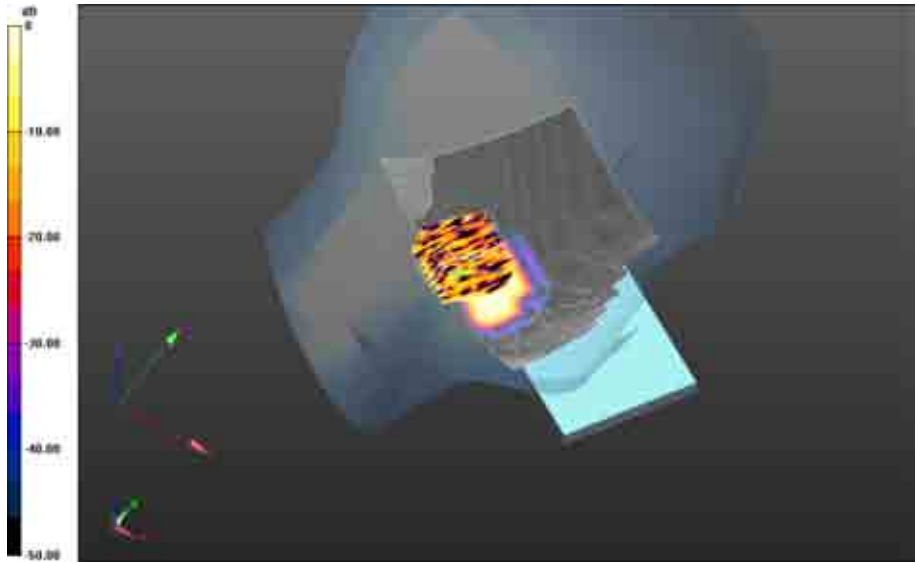
(46x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.439 V/m; **Power Drift = 0.020 dB**

Averaged SAR: SAR(1g) = 0.0167 W/kg; SAR(10g) = 0.00692 W/kg

Maximum value of SAR (interpolated) = 0.191 W/kg

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0 dB = 0.0428 W/kg = -13.69 dBW/kg