APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

LTE 17

Date/Time: 12/17/2012 4:34:23 PM

Test Laboratory: RIM Testing Services

Body_SAR_LTE_17_15mm_back

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE_Band 17; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.917 mho/m; ε_r = 54.177; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

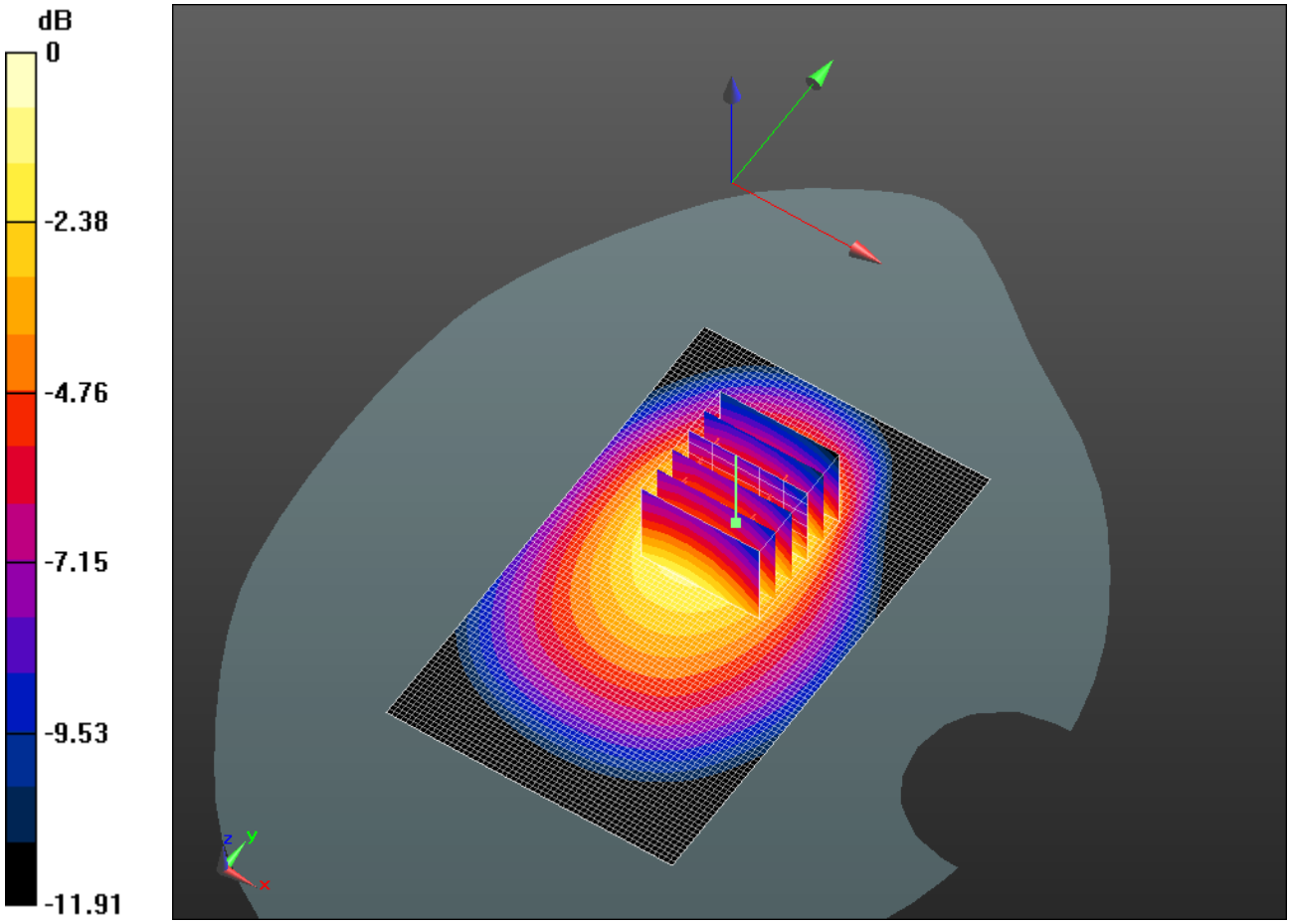
- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Body_worn_SAR/15mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.5C_Liq_Temp_21.8C/Area Scan (61x101x1):

Measurement grid: dx=15mm, dy=15mm
Reference Value = 19.368 V/m; Power Drift = -0.02 dB
Fast SAR: SAR(1 g) = 0.470 mW/g; SAR(10 g) = 0.323 mW/g
Maximum value of SAR (interpolated) = 0.538 mW/g

Body_worn_SAR/15mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.5C_Liq_Temp_21.8C/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.368 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.6320
SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.324 mW/g
Maximum value of SAR (measured) = 0.526 mW/g



0 dB = 0.530mW/g = -5.51 dB mW/g

Date/Time: 12/17/2012 4:19:47 PM

Test Laboratory: RIM Testing Services

Body_SAR_LTE_17_Holster_back

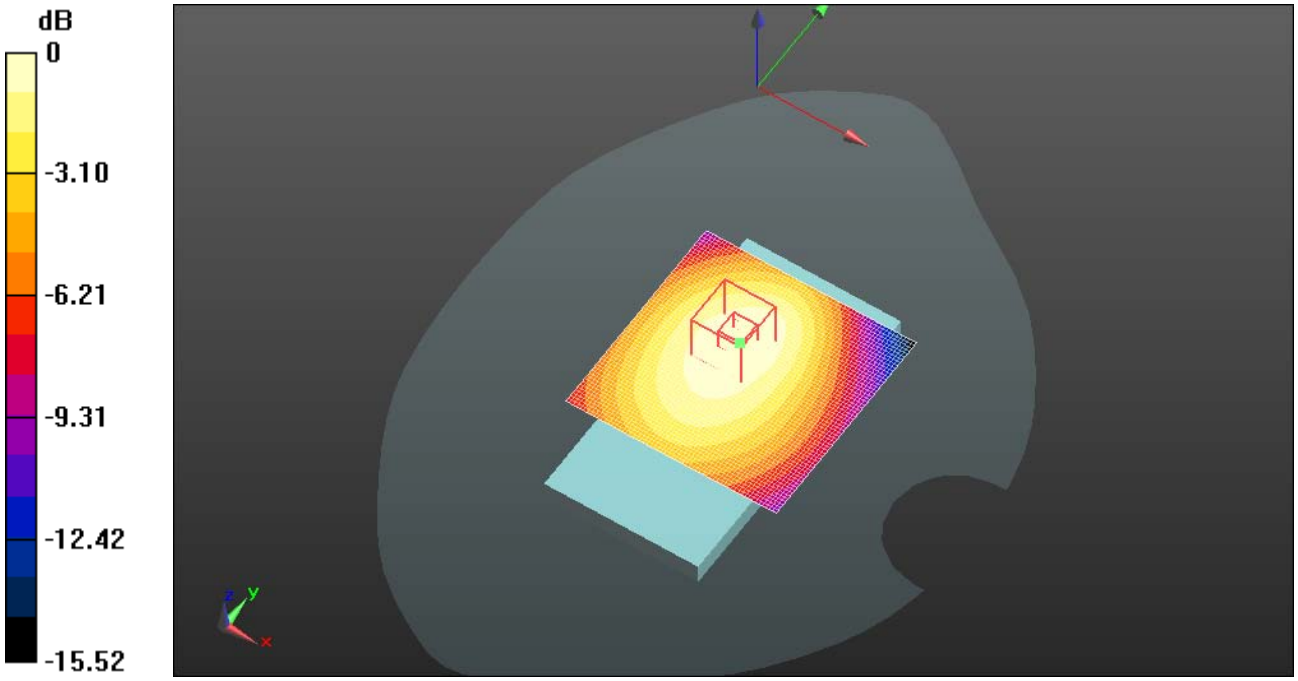
DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE_Band 17; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.917 mho/m; ε_r = 54.177; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Body_worn_SAR/Holster_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.5C_Liq_Temp_21.8C/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 18.285 V/m; Power Drift = 0.04 dB
Fast SAR: SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.231 mW/g
Maximum value of SAR (interpolated) = 0.366 mW/g



0 dB = 0.370mW/g = -8.64 dB mW/g

Date/Time: 12/17/2012 4:25:50 PM

Test Laboratory: RIM Testing Services

Body_SAR_LTE_17_Holster_Front

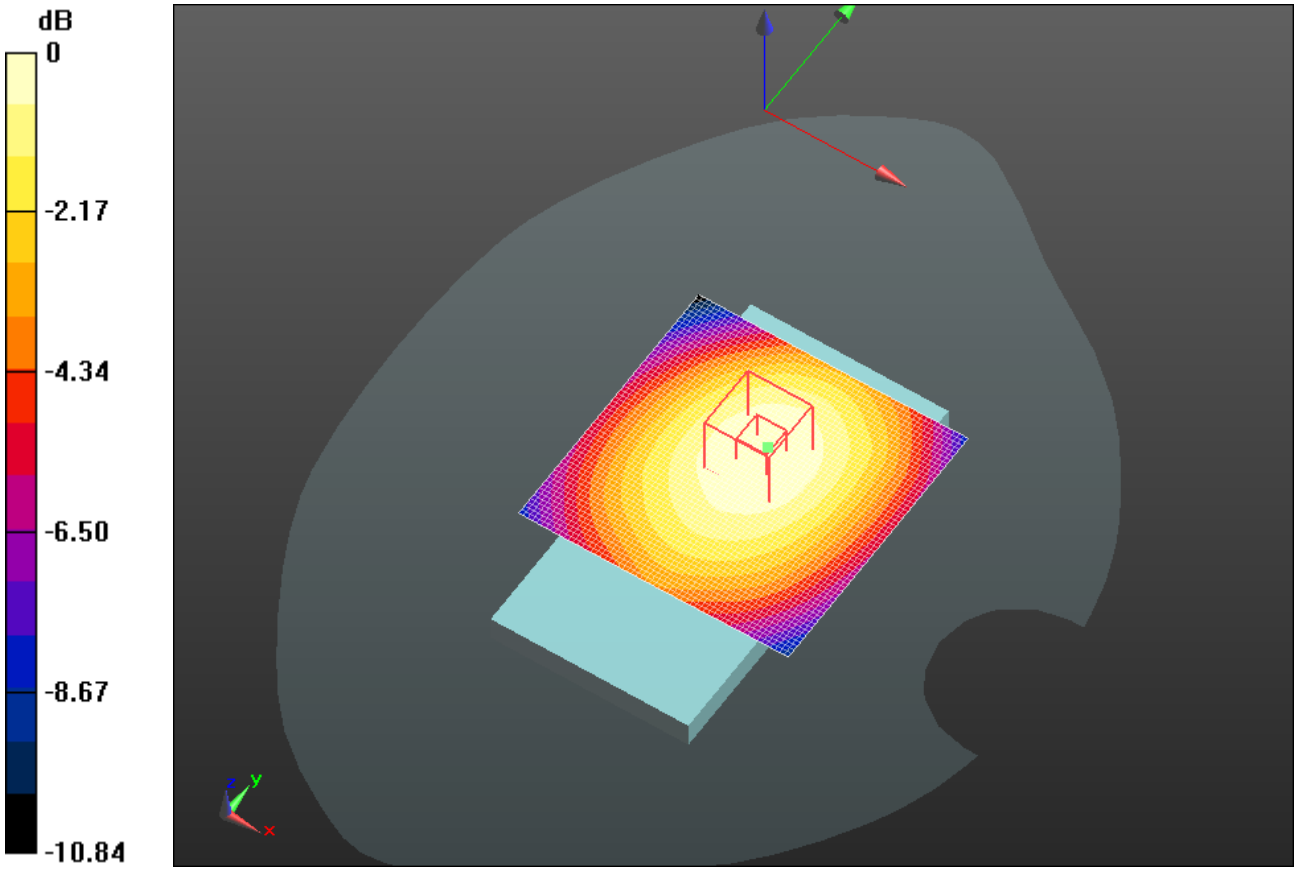
DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE_Band 17; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.917 mho/m; ε_r = 54.177; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Body_worn_SAR/Holster_Device_Front_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.2C_Liq_Temp_22.0C/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 17.064 V/m; Power Drift = -0.03 dB
Fast SAR: SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.196 mW/g
Maximum value of SAR (interpolated) = 0.304 mW/g



0 dB = 0.300mW/g = -10.46 dB mW/g

LTE 5

Date/Time: 12/10/2012 11:10:52 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.969 mho/m; ε_r = 54.397; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

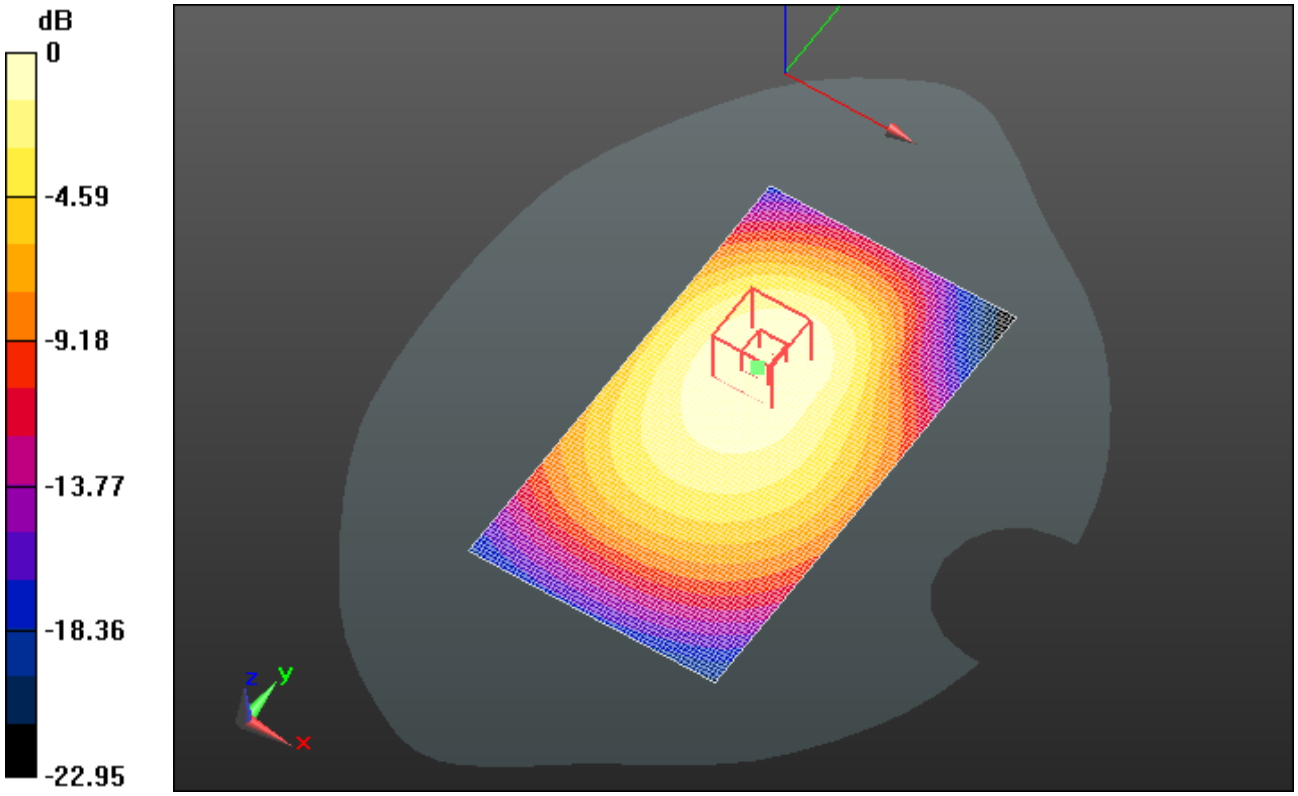
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/15mm_Spacer_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.2_liq_temp_21.5C.da52/Area Scan (61x111x1):

Measurement grid: dx=15mm, dy=15mm
Reference Value = 23.900 V/m; Power Drift = -0.08 dB
Fast SAR: SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.416 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.661 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Date/Time: 12/10/2012 11:28:10 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.6_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.969 mho/m; ε_r = 54.397; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

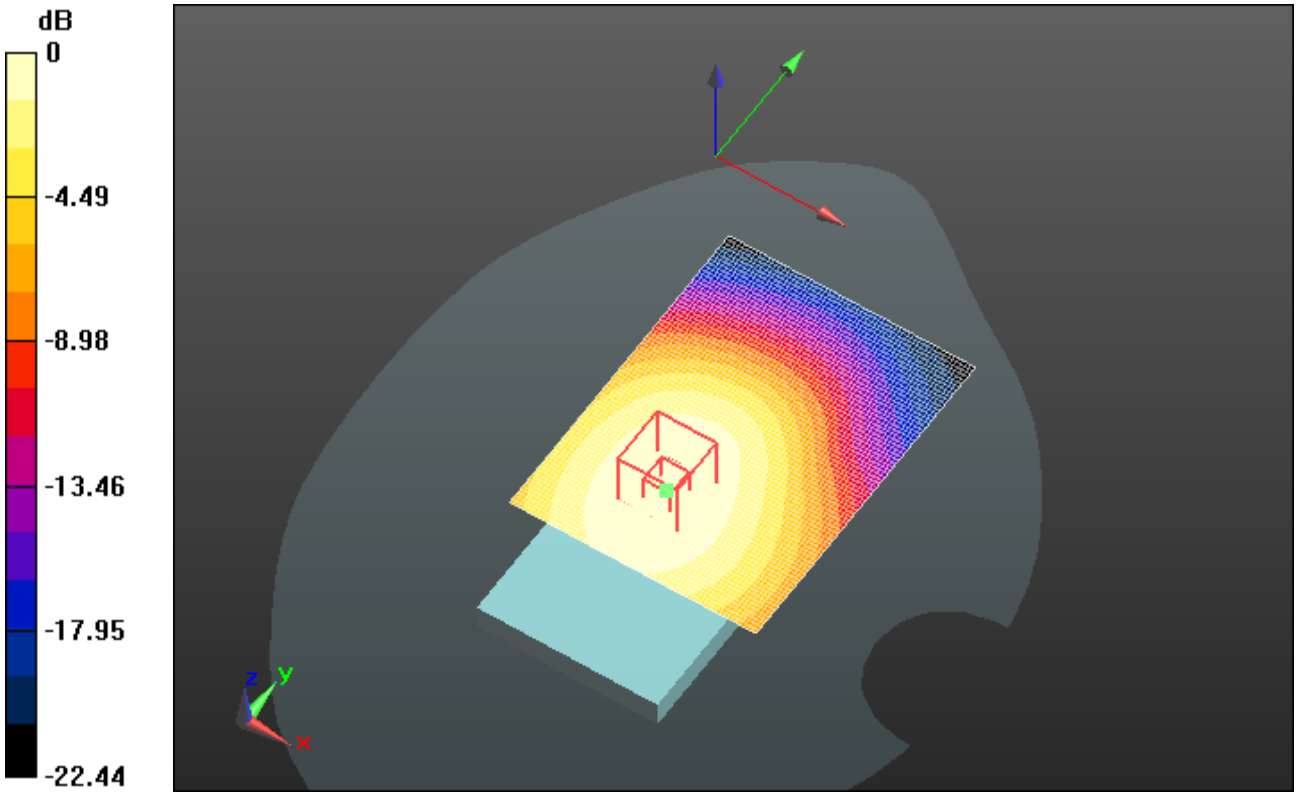
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Vertical_Holster_Back_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.6_liq_temp_21.2C.da52/Area Scan (61x81x1):

Measurement grid: dx=15mm, dy=15mm
Reference Value = 24.470 V/m; Power Drift = 0.03 dB
Fast SAR: SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.369 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.581 mW/g



0 dB = 0.580mW/g = -4.73 dB mW/g

Date/Time: 12/10/2012 11:44:42 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.4_liq_temp_21.0C.da52

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.969 mho/m; ε_r = 54.397; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

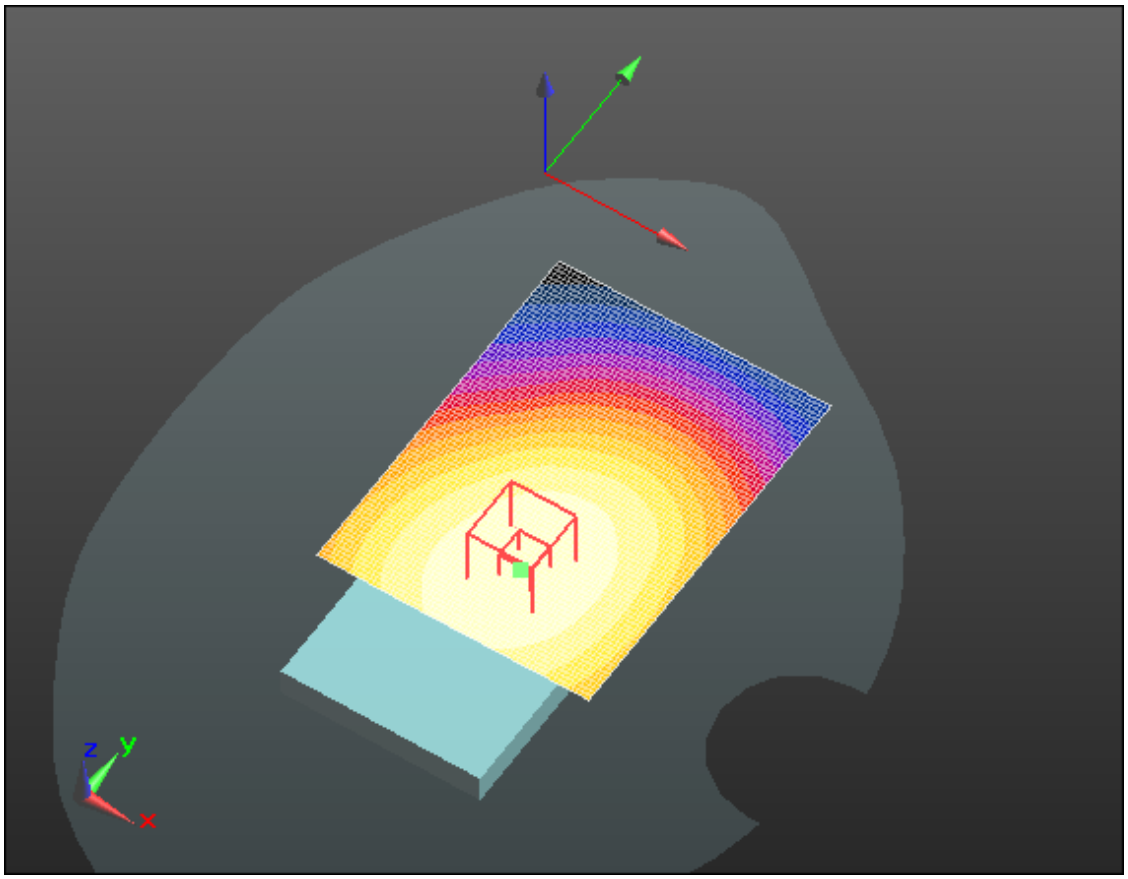
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Vertical_Holster_Front_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.4_liq_temp_21.0C.da52/Area Scan (61x81x1):

Measurement grid: dx=15mm, dy=15mm
Reference Value = 23.894 V/m; Power Drift = 0.06 dB
Fast SAR: SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.345 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.539 mW/g



0 dB = 0.540mW/g = -5.35 dB mW/g

EDGE 850

Date/Time: 12/10/2012 7:19:11 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.4_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.97 mho/m; ε_r = 54.394; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

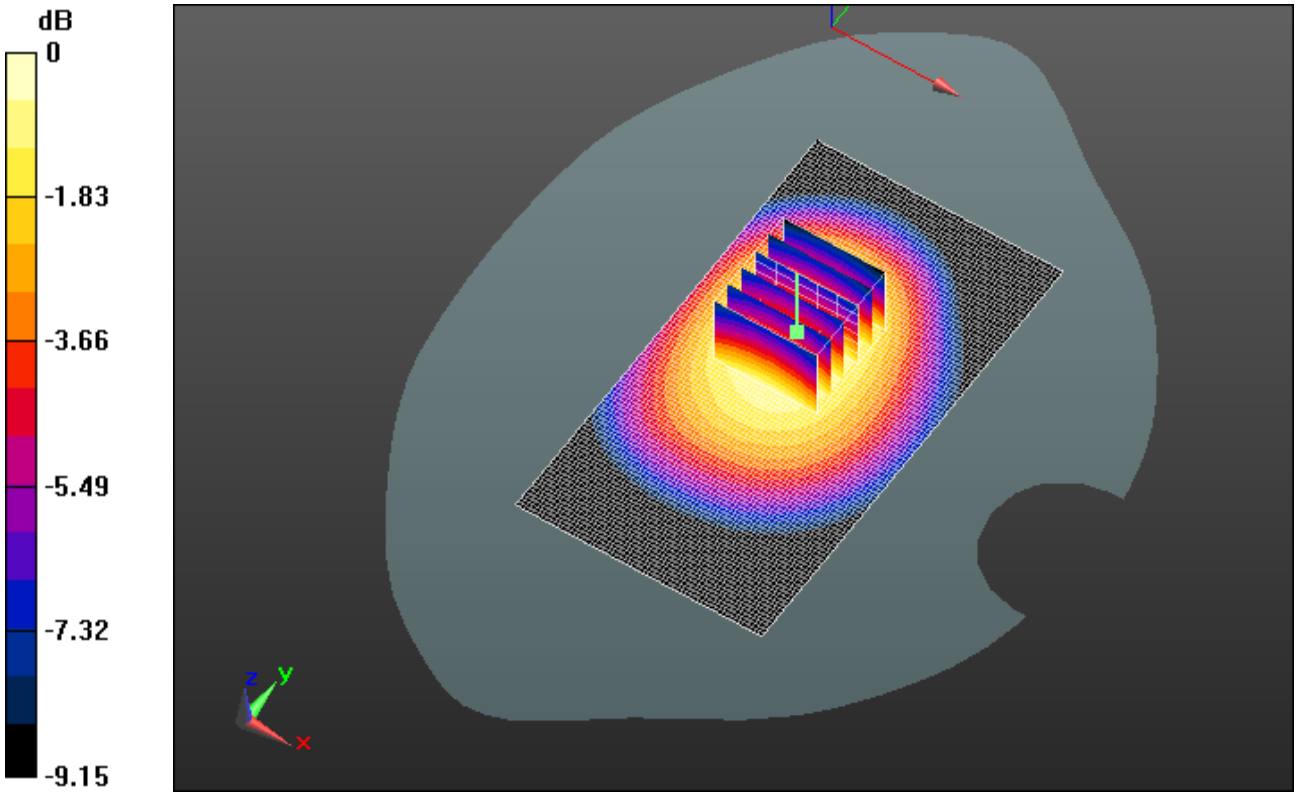
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.643 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.952 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.7620
SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.435 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.650mW/g = -3.74 dB mW/g

Date/Time: 12/10/2012 7:41:15 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.4_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

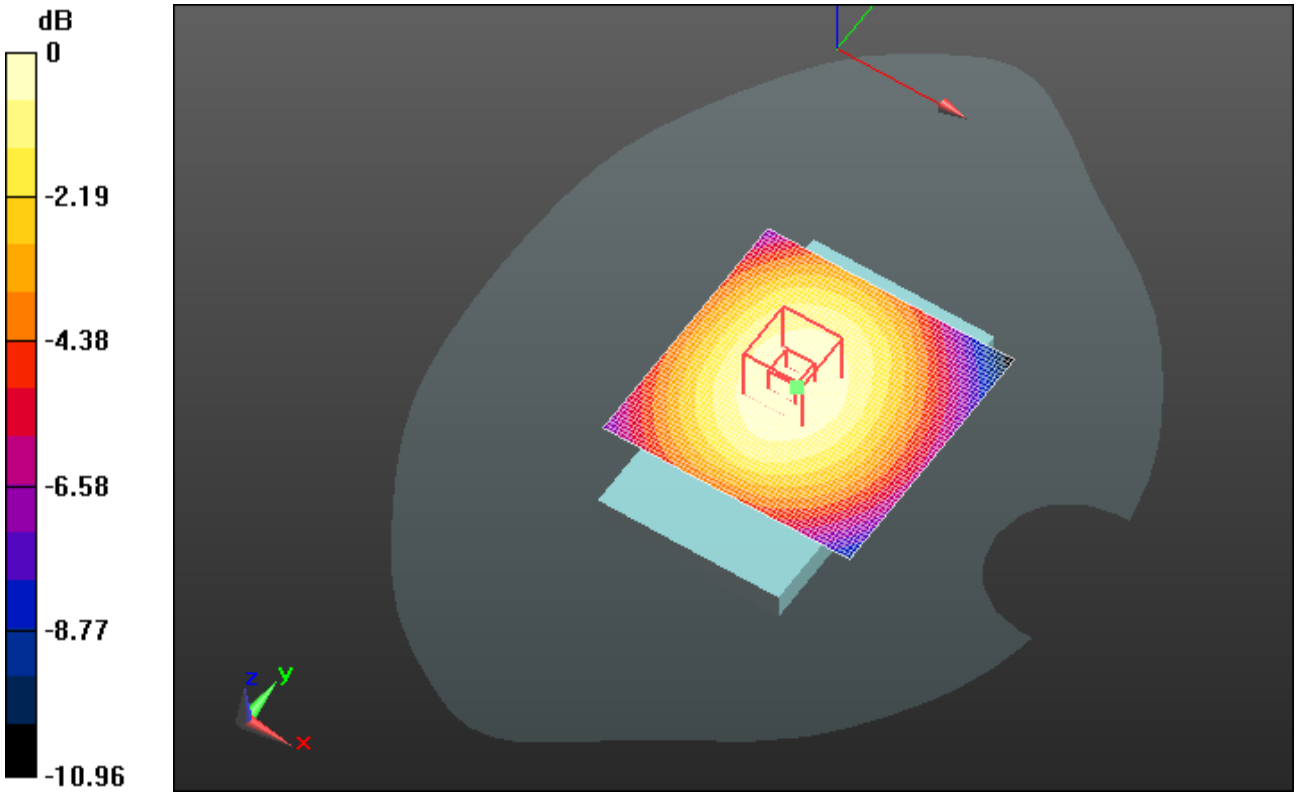
Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.97 mho/m; ε_r = 54.394; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 24.396 V/m; Power Drift = 0.10 dB
Fast SAR: SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.365 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.572 mW/g



0 dB = 0.570mW/g = -4.88 dB mW/g

Date/Time: 12/10/2012 7:51:26 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_GPRS850_mid_chan_amb_temp_23.3_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

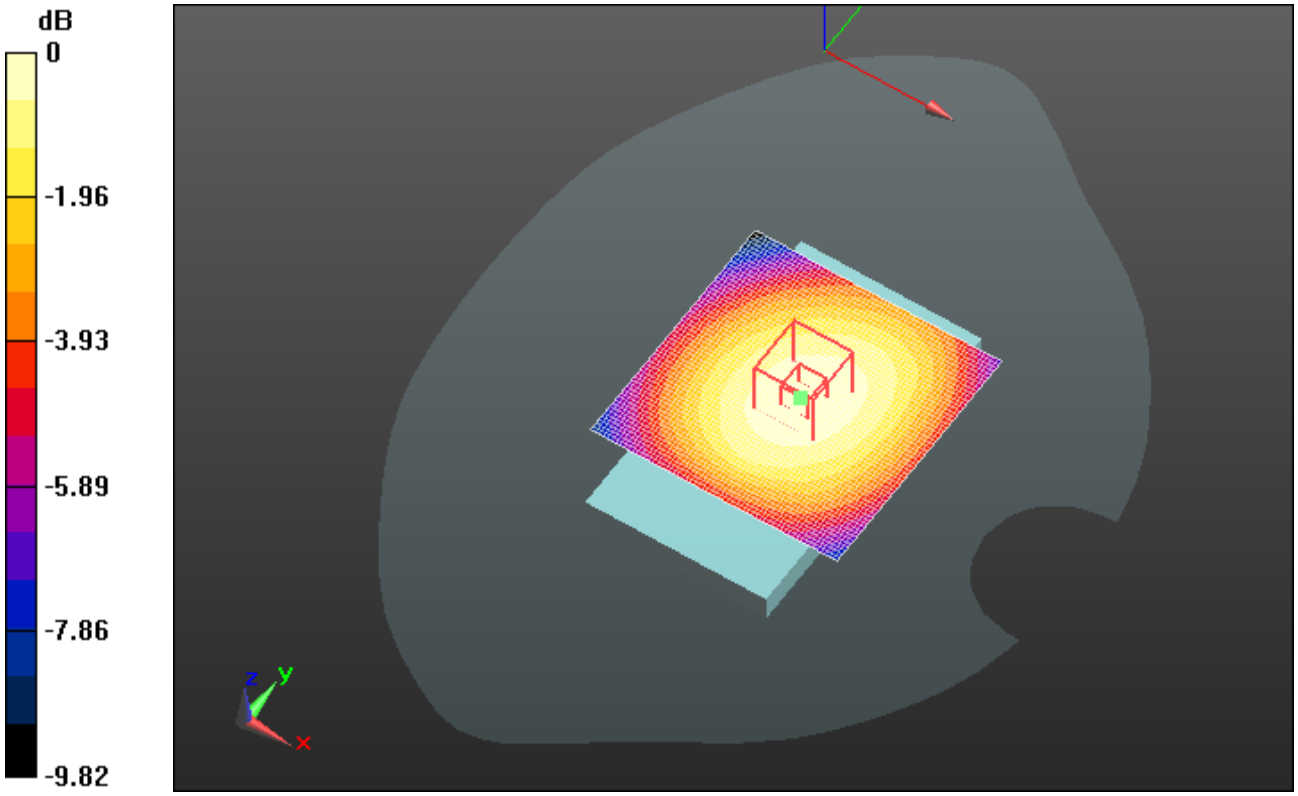
Communication System: GPRS 850; Frequency: 836.8 MHz
Medium parameters used (interpolated): f = 836.8 MHz; σ = 0.97 mho/m; ε_r = 54.394; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 23.881 V/m; Power Drift = 0.04 dB
Fast SAR: SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.348 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.546 mW/g



0 dB = 0.550mW/g = -5.19 dB mW/g

UMTS Band V

Date/Time: 12/10/2012 11:50:20 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.3_liq_temp_221.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Communication System Band: UMTS band V; Frequency: 836.4 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.399; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

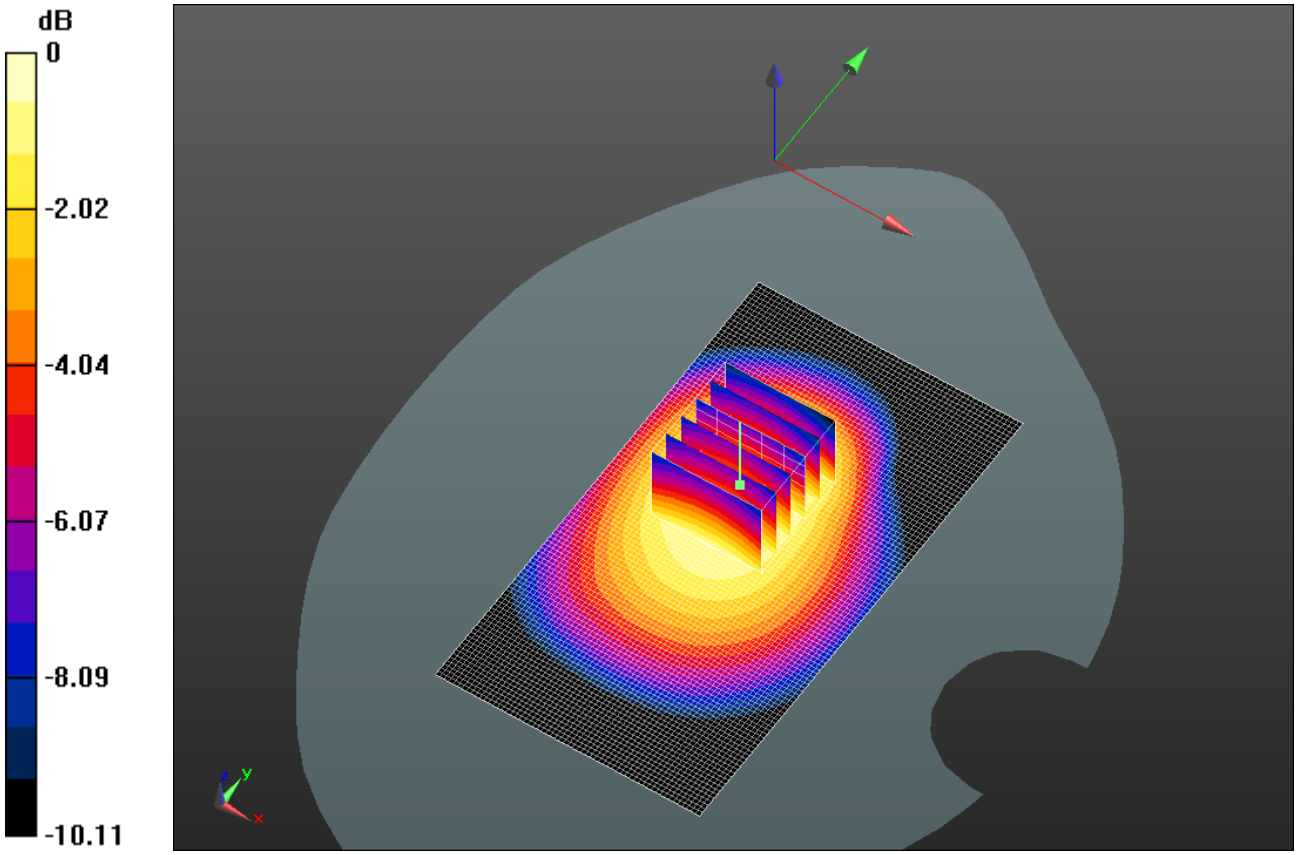
- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.854 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.636 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.9690
SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.557 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.833 mW/g



0 dB = 0.830mW/g = -1.62 dB mW/g

Date/Time: 12/10/2012 8:19:28 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_Band_V_mid_chan_amb_temp_23.3_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

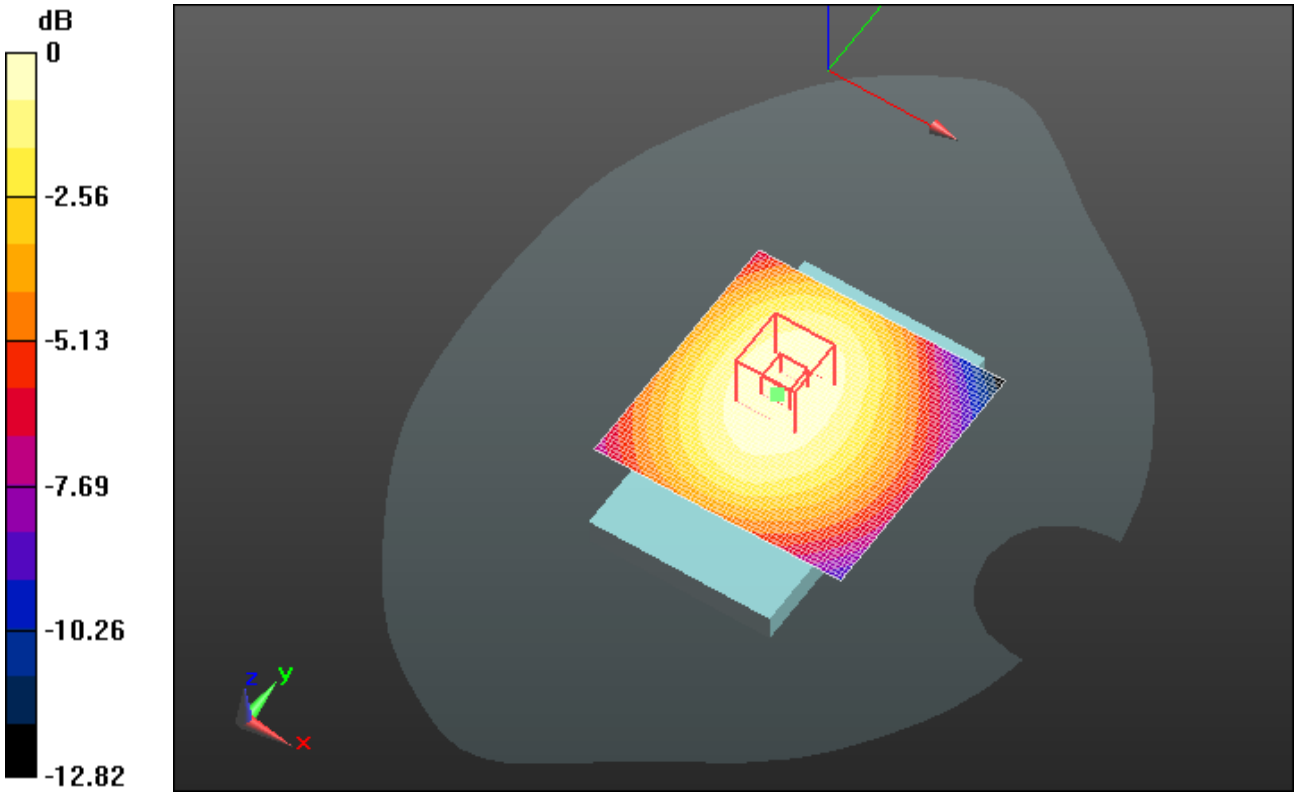
Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.399; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 26.934 V/m; Power Drift = -0.04 dB
Fast SAR: SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.445 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.697 mW/g



0 dB = 0.700mW/g = -3.10 dB mW/g

Date/Time: 12/10/2012 8:08:40 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_UMTS_Band_V_mid_chan_amb_temp_23.3_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

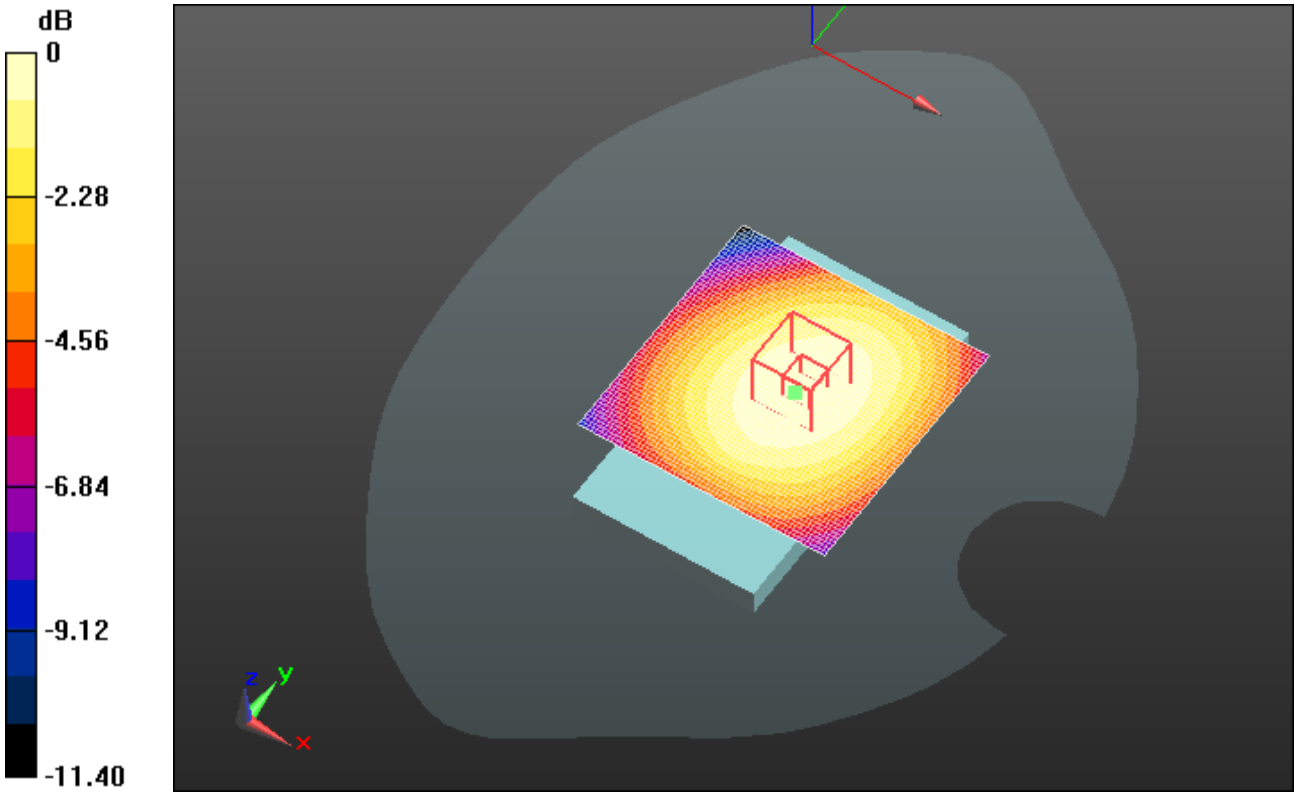
Communication System: WCDMA FDD V; Frequency: 836.4 MHz
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.399; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 26.354 V/m; Power Drift = -0.17 dB
Fast SAR: SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.413 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.644 mW/g



0 dB = 0.640mW/g = -3.88 dB mW/g

LTE 4

Date/Time: 12/5/2012 12:59:14 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_23.7_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

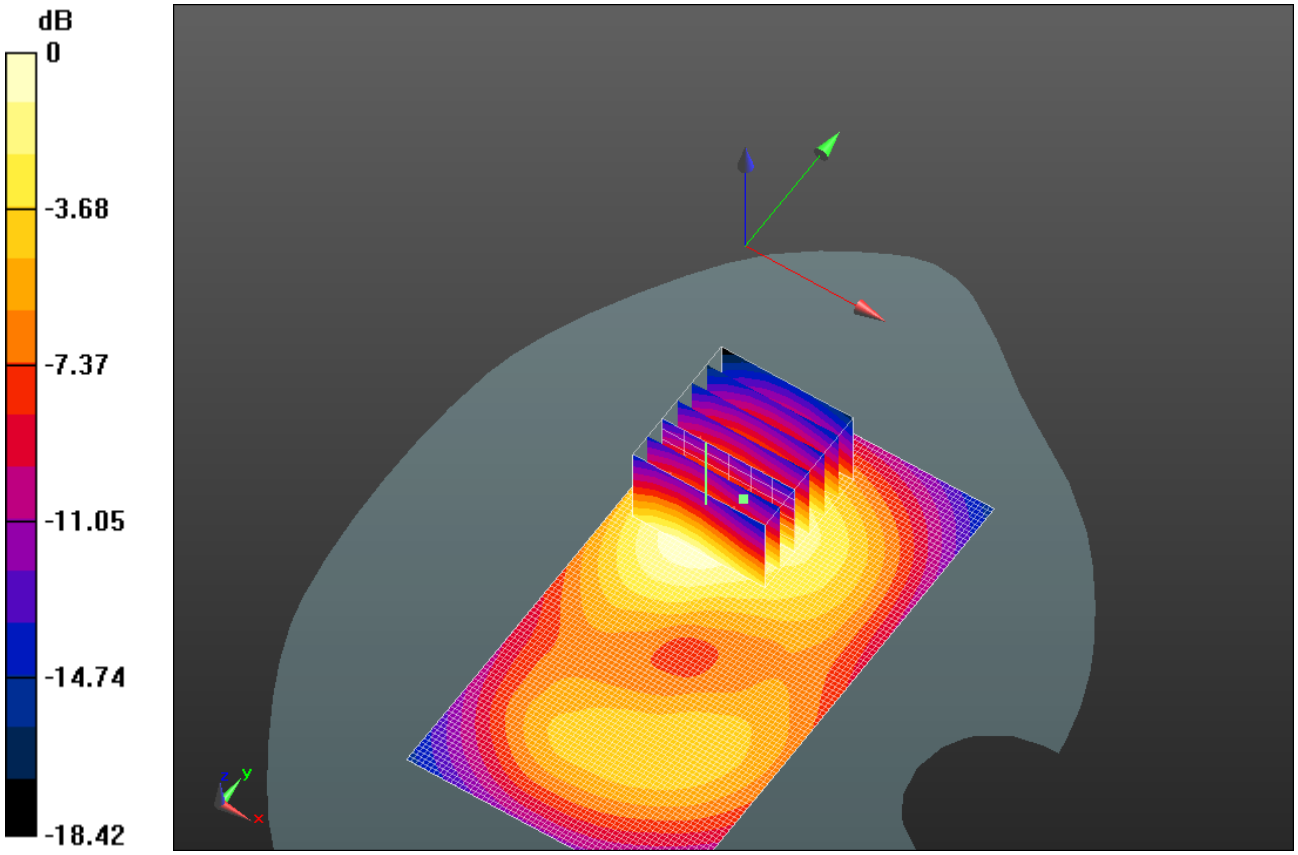
Communication System: LTE 1800_Band 4; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.542 mho/m; ε_r = 51.637; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.823 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.054 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.1130
SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.419 mW/g
Maximum value of SAR (measured) = 0.802 mW/g



0 dB = 0.800mW/g = -1.94 dB mW/g

Date/Time: 12/5/2012 2:10:42 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb _temp_23.4_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

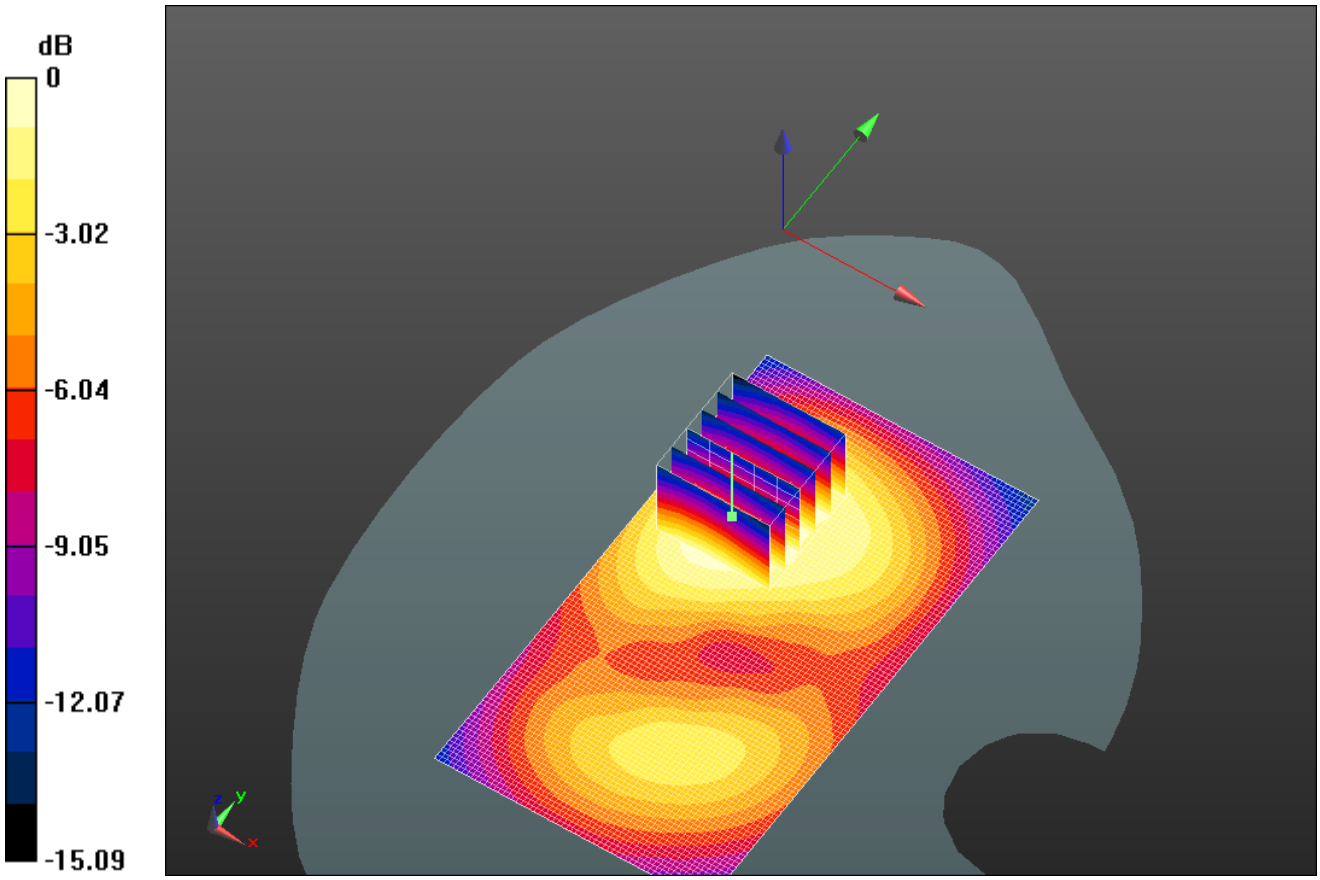
Communication System: LTE 1800_Band 4; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.542 mho/m; ε_r = 51.637; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.384 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.979 V/m; Power Drift = 0.0083 dB
Peak SAR (extrapolated) = 0.5130
SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.383 mW/g



0 dB = 0.380mW/g = -8.40 dB mW/g

Date/Time: 12/5/2012 2:32:58 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb _temp_23.9_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

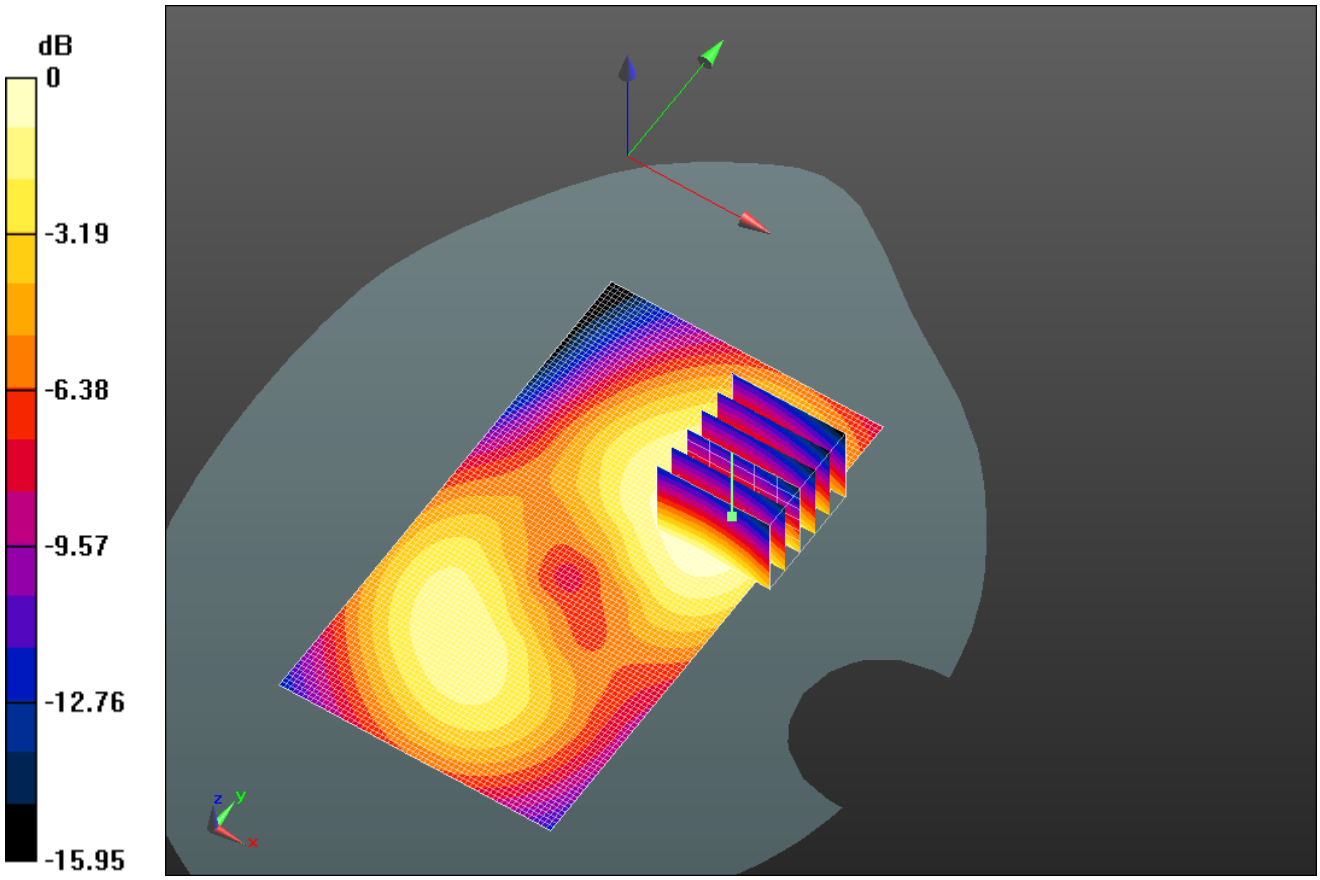
Communication System: LTE 1800_Band 4; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.542 mho/m; ε_r = 51.637; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.298 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.272 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.3870
SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.155 mW/g
Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.290mW/g = -10.75 dB mW/g

LTE 2

Date/Time: 12/3/2012 5:21:14 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.3_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

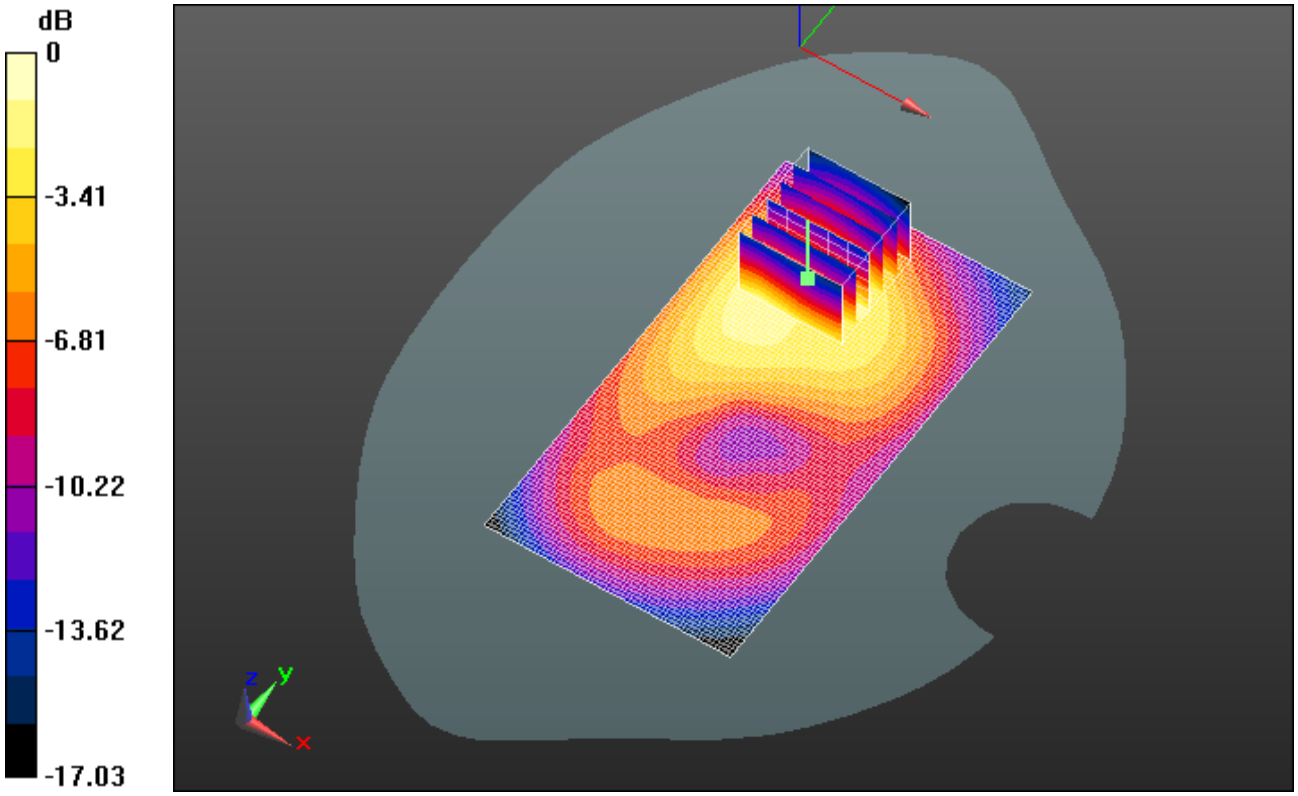
Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.487 mho/m; ε_r = 52.143; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.663 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.969 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.8920
SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.323 mW/g
Maximum value of SAR (measured) = 0.658 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Date/Time: 12/3/2012 5:48:22 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.6_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

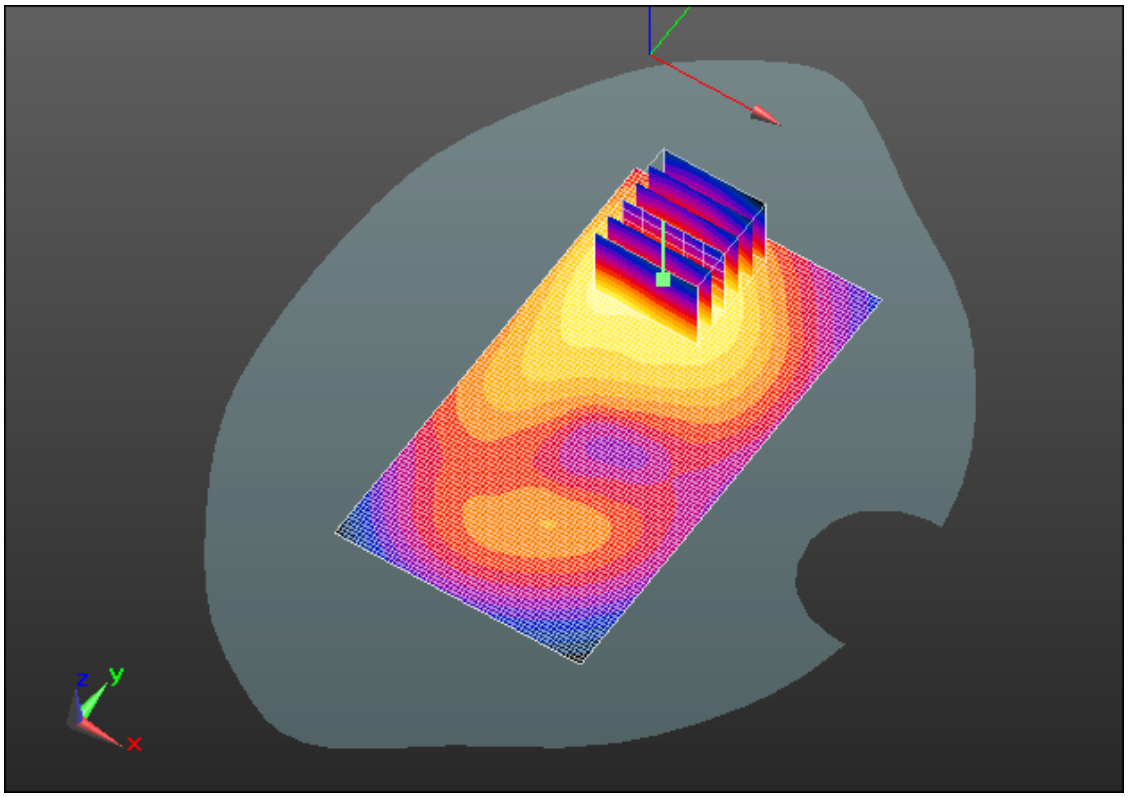
Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.487 mho/m; ε_r = 52.143; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.447 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.736 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.5970
SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.227 mW/g
Maximum value of SAR (measured) = 0.444 mW/g



0 dB = 0.440mW/g = -7.13 dB mW/g

Date/Time: 12/3/2012 6:07:55 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.6_liq_temp_21.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

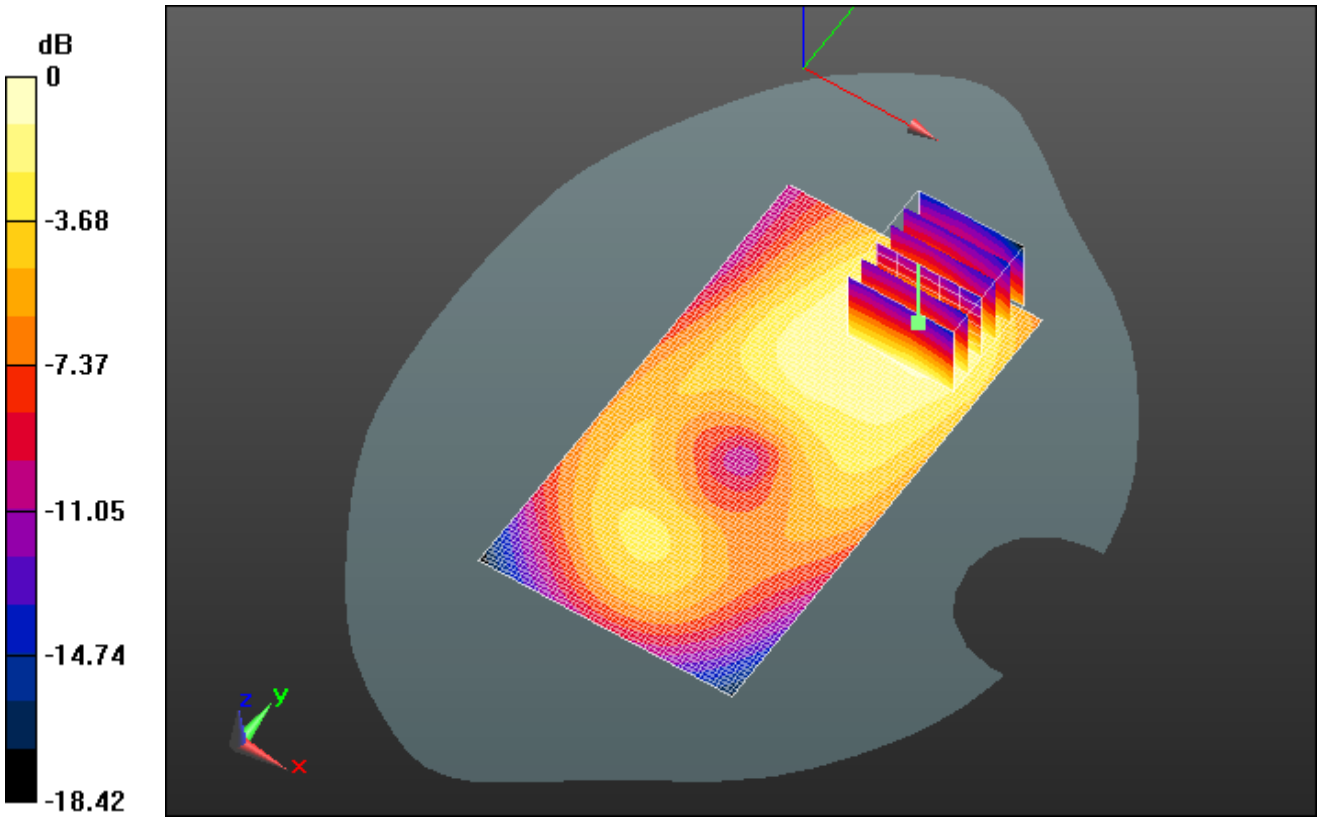
Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.487 mho/m; ε_r = 52.143; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.272 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.123 V/m; Power Drift = 0.29 dB
Peak SAR (extrapolated) = 0.3610
SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.144 mW/g
Maximum value of SAR (measured) = 0.274 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Date/Time: 12/4/2012 5:49:29 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_24.5_liq_temp_22.6C_2100

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

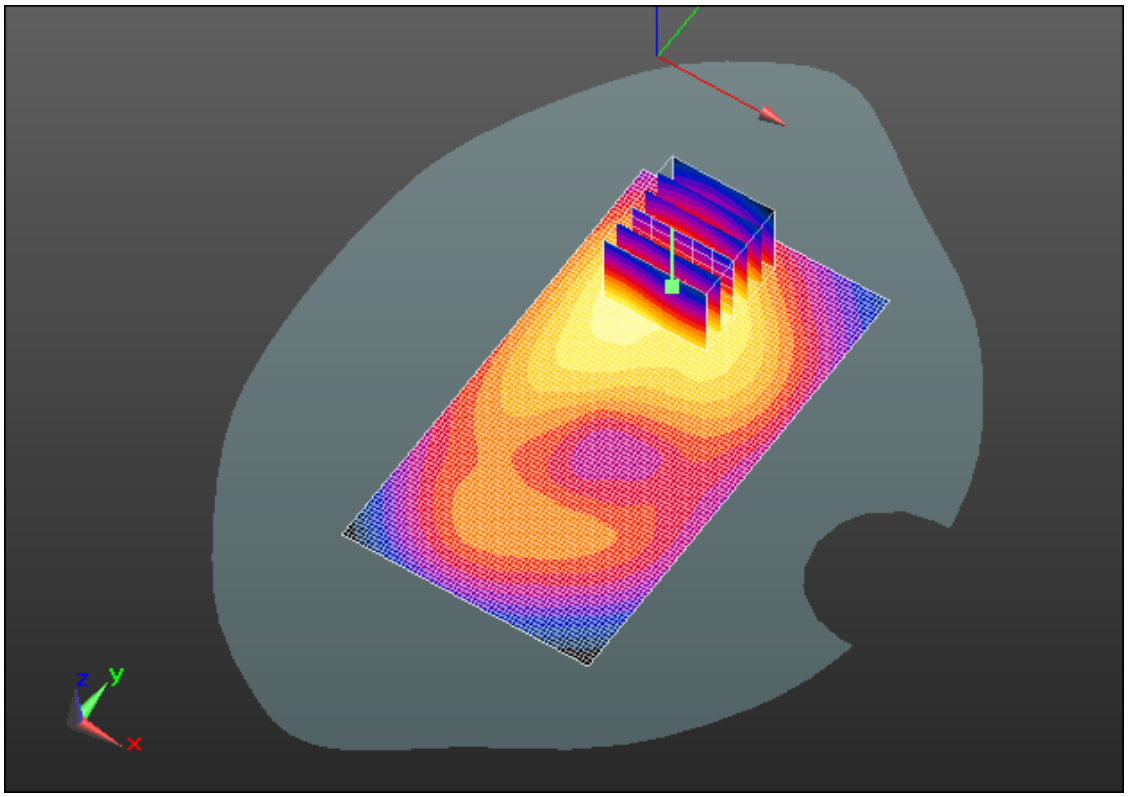
Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.487 mho/m; ε_r = 52.143; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.683 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.417 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.8530
SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.637 mW/g



0 dB = 0.640mW/g = -3.88 dB mW/g

EDGE 1900

Date/Time: 11/26/2012 10:11:56 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_EDGE1900_mid_chan_amb_temp_23.8_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

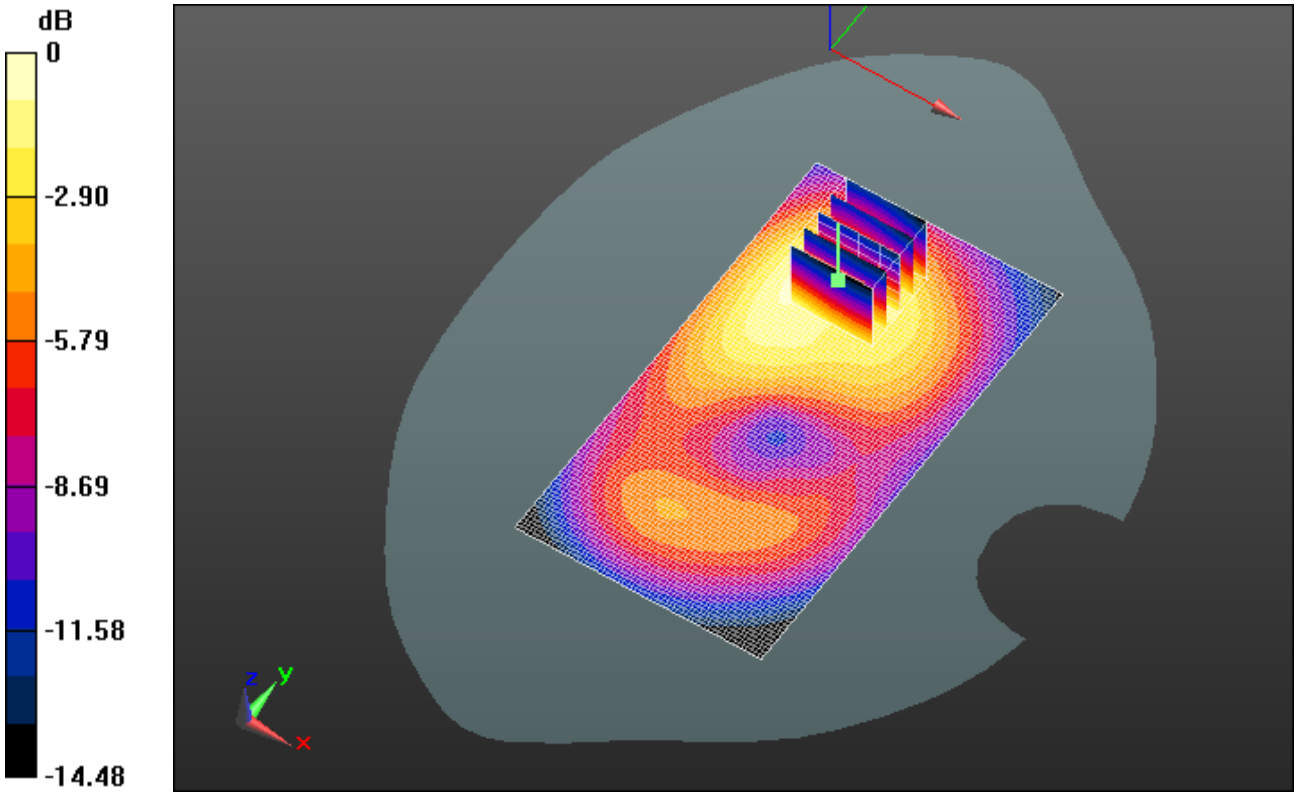
Communication System: EDGE 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 50.828; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.646 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.588 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.8190
SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.304 mW/g
Maximum value of SAR (measured) = 0.608 mW/g



0 dB = 0.610mW/g = -4.29 dB mW/g

Date/Time: 11/26/2012 10:31:48 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_EDGE1900_mid_chan_amb_temp_23.8_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

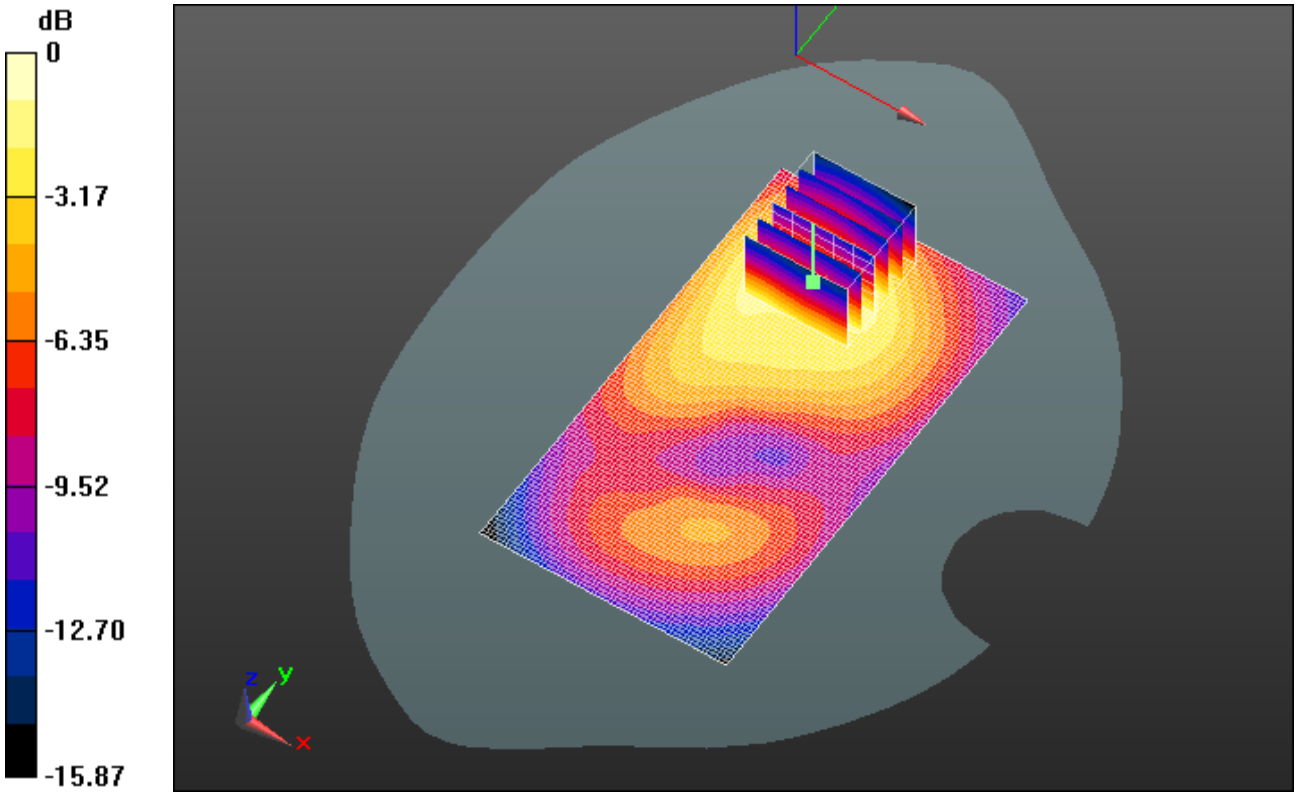
Communication System: EDGE 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 50.828; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.430 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.067 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.5670
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.225 mW/g
Maximum value of SAR (measured) = 0.432 mW/g



0 dB = 0.430mW/g = -7.33 dB mW/g

Date/Time: 11/26/2012 10:53:19 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_EDGE1900_mid_chan_amb_temp_23.8_liq_temp_21.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

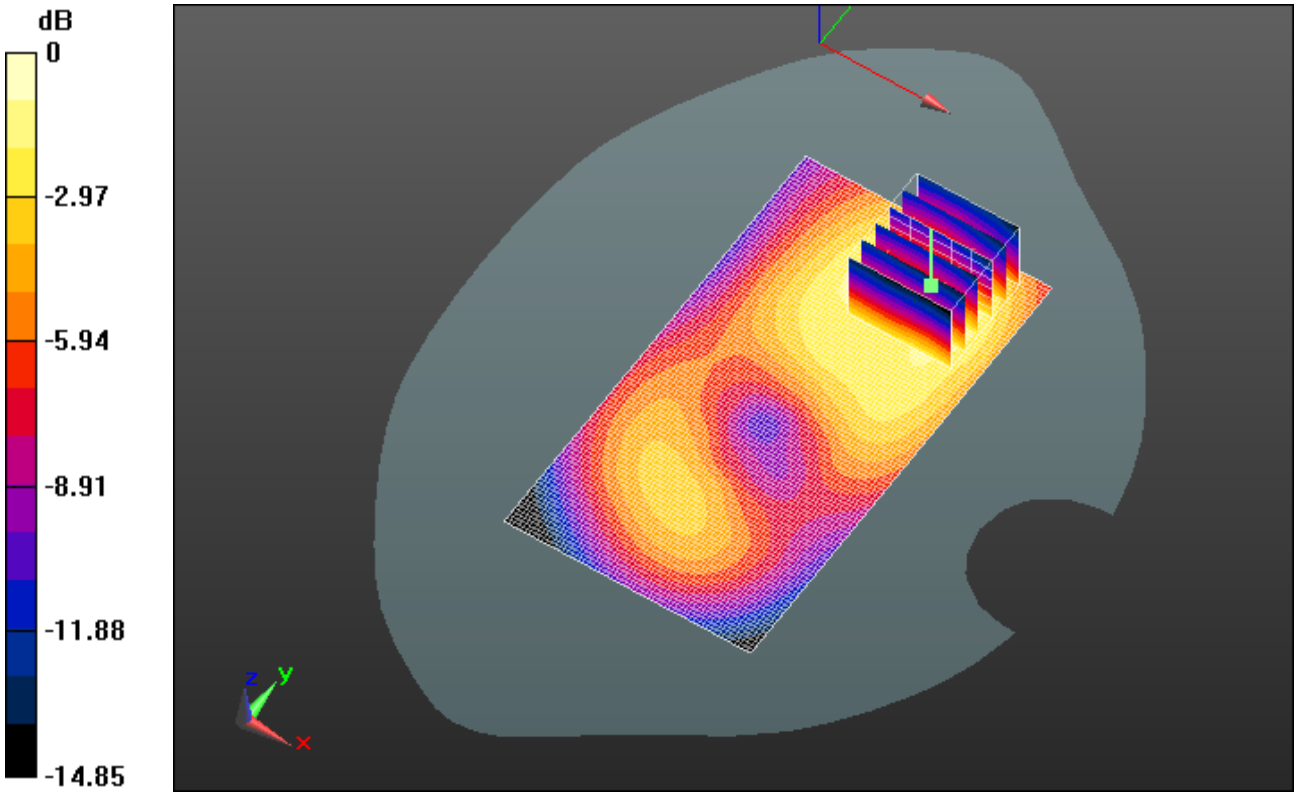
Communication System: EDGE 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 50.828; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.265 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.178 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.3640
SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.146 mW/g
Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.280mW/g = -11.06 dB mW/g

Date/Time: 11/29/2012 2:34:39 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_23.9_liq_temp_22.5C_2100

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

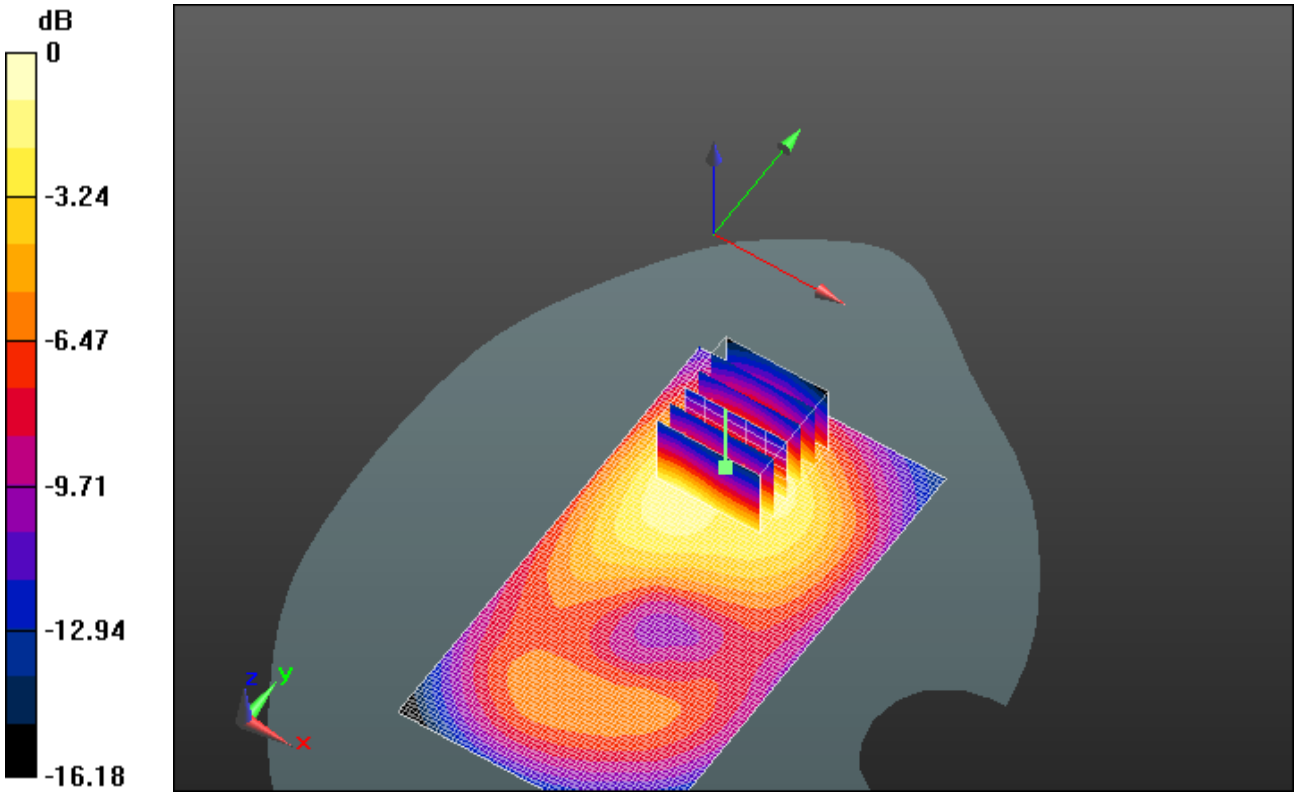
Communication System: GPRS 1900; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 51.059; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.766 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.738 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.9880
SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.364 mW/g
Maximum value of SAR (measured) = 0.720 mW/g



0 dB = 0.720mW/g = -2.85 dB mW/g

UMTS Band II

Date/Time: 11/23/2012 4:14:05 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_24.1_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

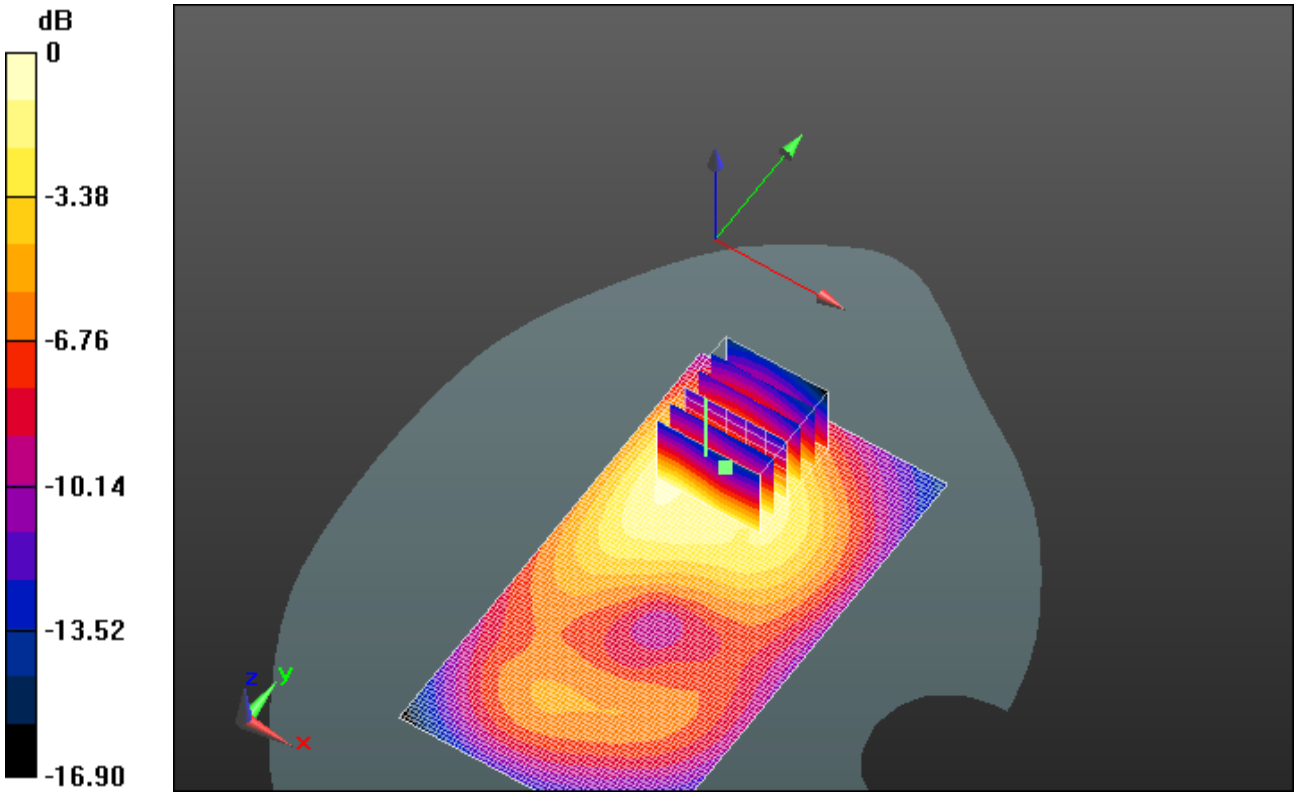
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.548 mho/m; ε_r = 50.952; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.766 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.934 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.9940
SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.731 mW/g



0 dB = 0.730mW/g = -2.73 dB mW/g

Date/Time: 11/23/2012 4:49:36 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_UMTS_Band_II_mid_chan_amb_temp_23.9_liq_temp_22.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

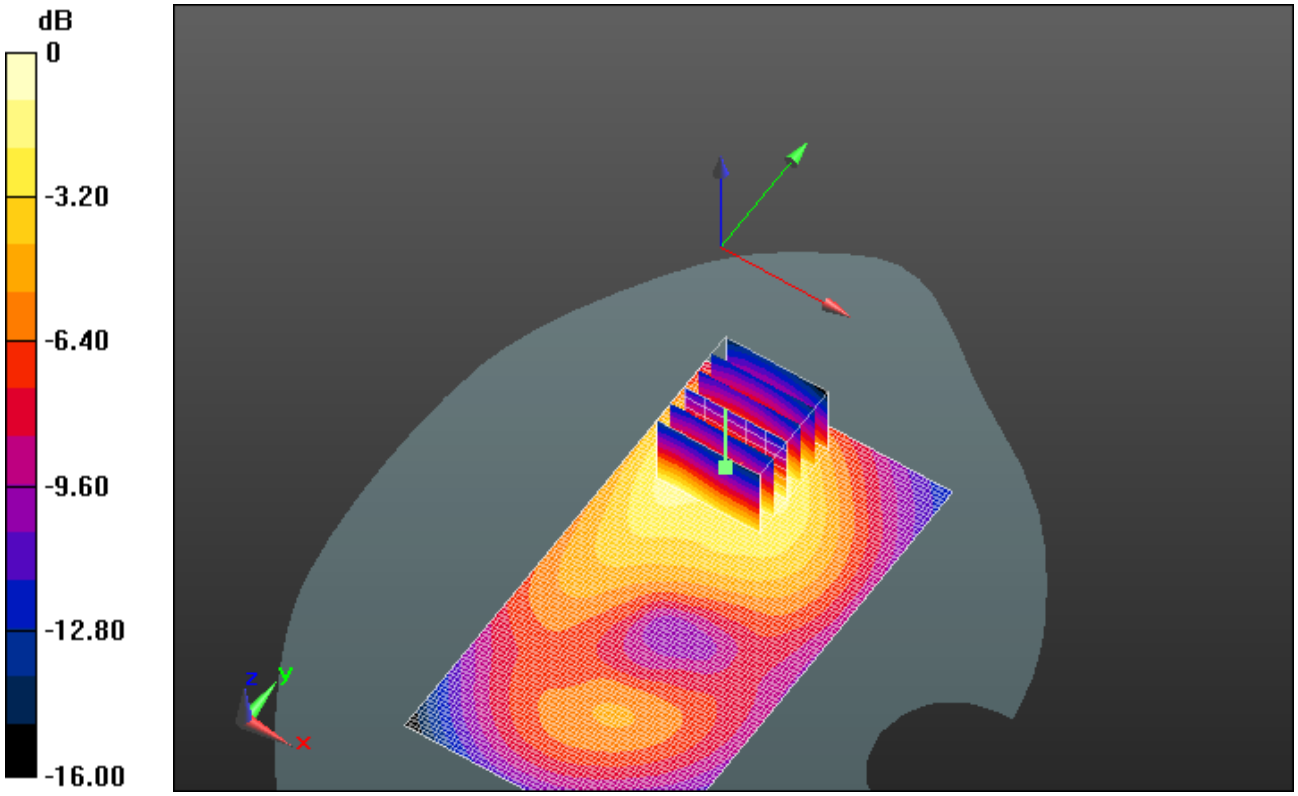
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.548 mho/m; ε_r = 50.952; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.513 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.690 V/m; Power Drift = 0.25 dB
Peak SAR (extrapolated) = 0.6840
SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.271 mW/g
Maximum value of SAR (measured) = 0.521 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Date/Time: 11/26/2012 10:43:19 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_UMTS_Band_II_mid_chan_amb_temp_25.3_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

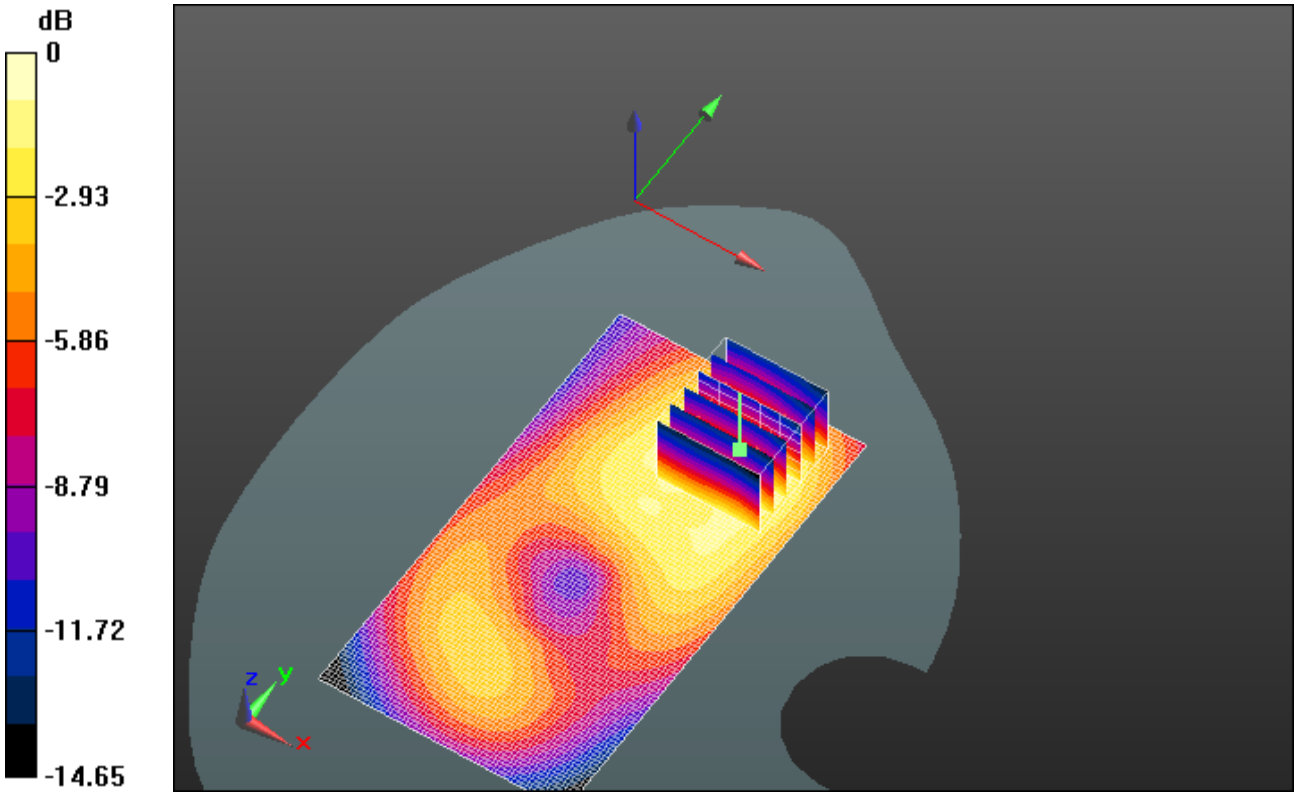
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.499 mho/m; ε_r = 50.828; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.317 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.003 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.4290
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.332 mW/g



0 dB = 0.330mW/g = -9.63 dB mW/g

Date/Time: 11/29/2012 2:55:19 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_23.9_liq_temp_22.7C_2100

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

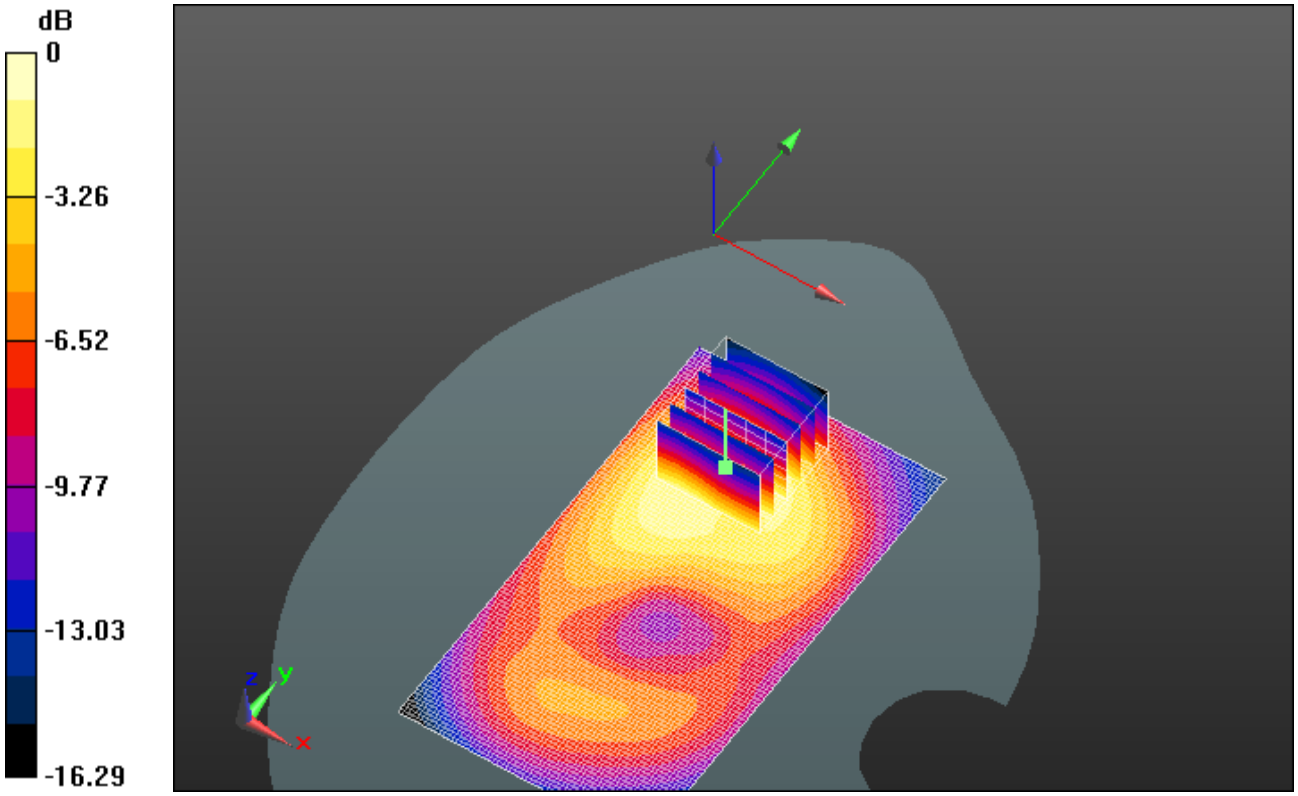
Communication System: WCDMA FDD II; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.546 mho/m; ε_r = 51.059; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.809 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.937 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.0320
SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.386 mW/g
Maximum value of SAR (measured) = 0.759 mW/g



0 dB = 0.760mW/g = -2.38 dB mW/g

802.11b

Date/Time: 1/7/2013 11:53:48 AM

Test Laboratory: RIM Testing Services

Body-worn_SAR_802.11b_15mm_back

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.98 S/m; ε_r = 52.838; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
  - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

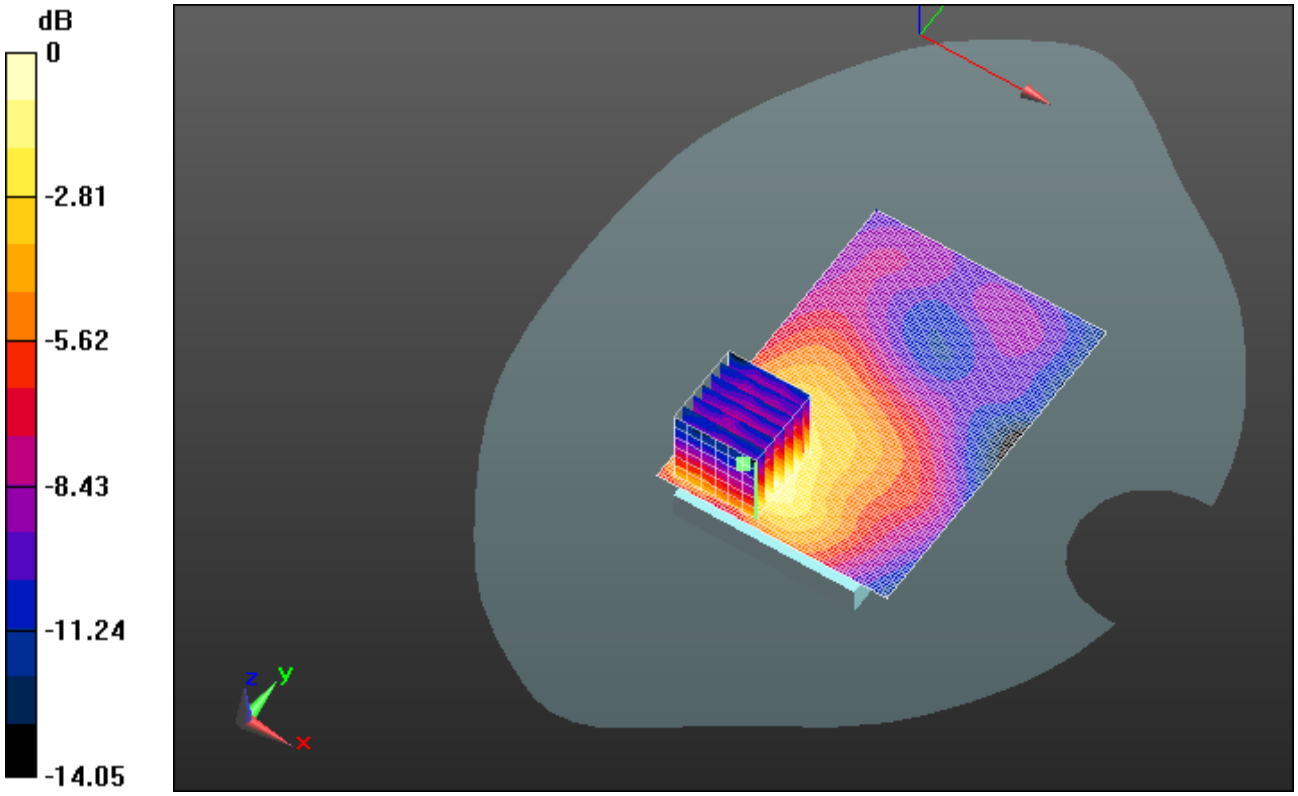
Flat-Section MSL_Body-Worn SAR/Device Back_15mm_Amb_Temp_24.0C_Liquid_Temp_22.3C/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.320 W/kg

Flat-Section MSL_Body-Worn SAR/Device Back_15mm_Amb_Temp_24.0C_Liquid_Temp_22.3C/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.024 V/m; Power Drift = 0.23 dB
Peak SAR (extrapolated) = 0.668 W/kg
SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.163 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

Date/Time: 1/7/2013 12:22:08 PM

Test Laboratory: RIM Testing Services

Body-worn_SAR_802.11b_Holster_back

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.98 S/m; ε_r = 52.838; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
  - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_Body-Worn SAR/Holster_Device Back_Amb_Temp_24.2C_Liquid_Temp_22.3C/Area Scan (71x101x1):

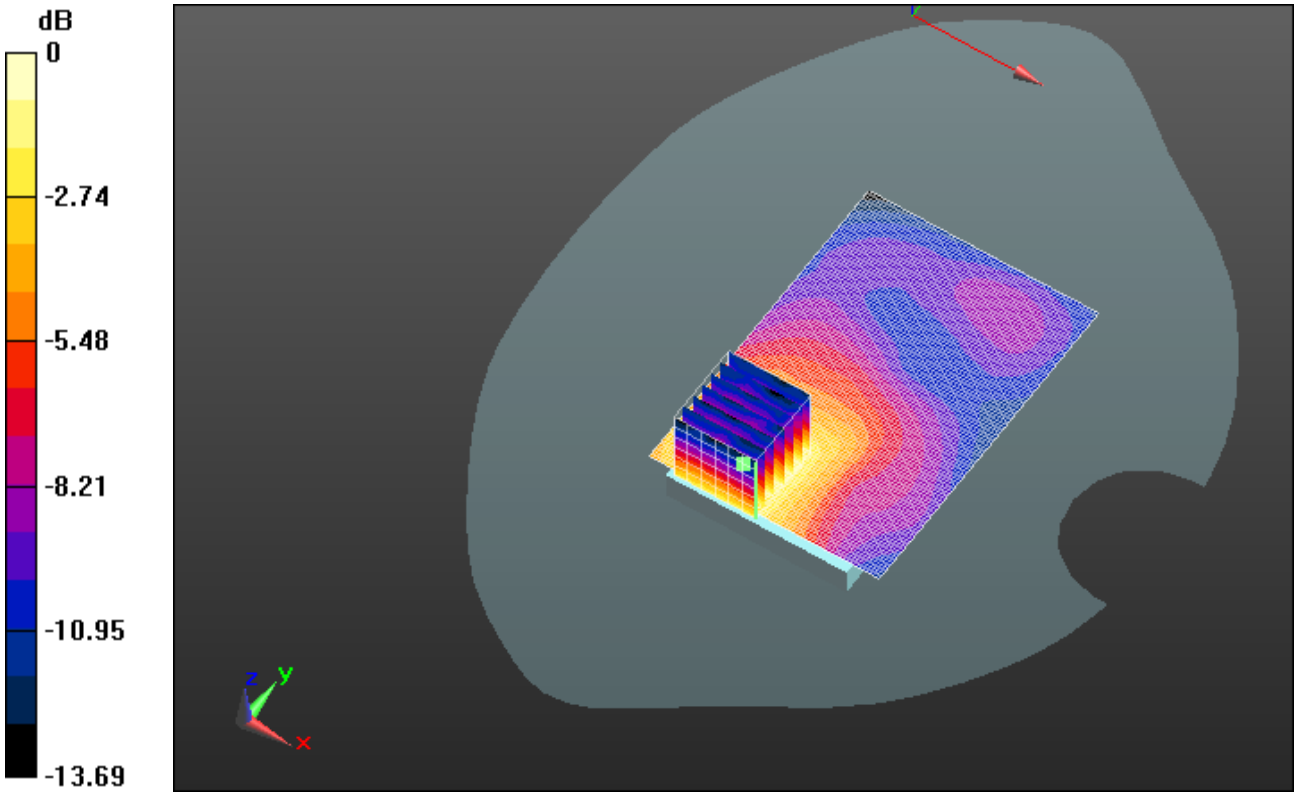
Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.267 W/kg

Flat-Section MSL_Body-Worn SAR/Holster_Device Back_Amb_Temp_24.2C_Liquid_Temp_22.3C/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.523 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.543 W/kg
SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.142 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.267 W/kg = -5.74 dBW/kg

Date/Time: 1/7/2013 12:45:41 PM

Test Laboratory: RIM Testing Services

Body-worn_SAR_802.11b_Holster_Front

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11 b (2450); Communication System Band: 802.11 b; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.98 S/m; ε_r = 52.838; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

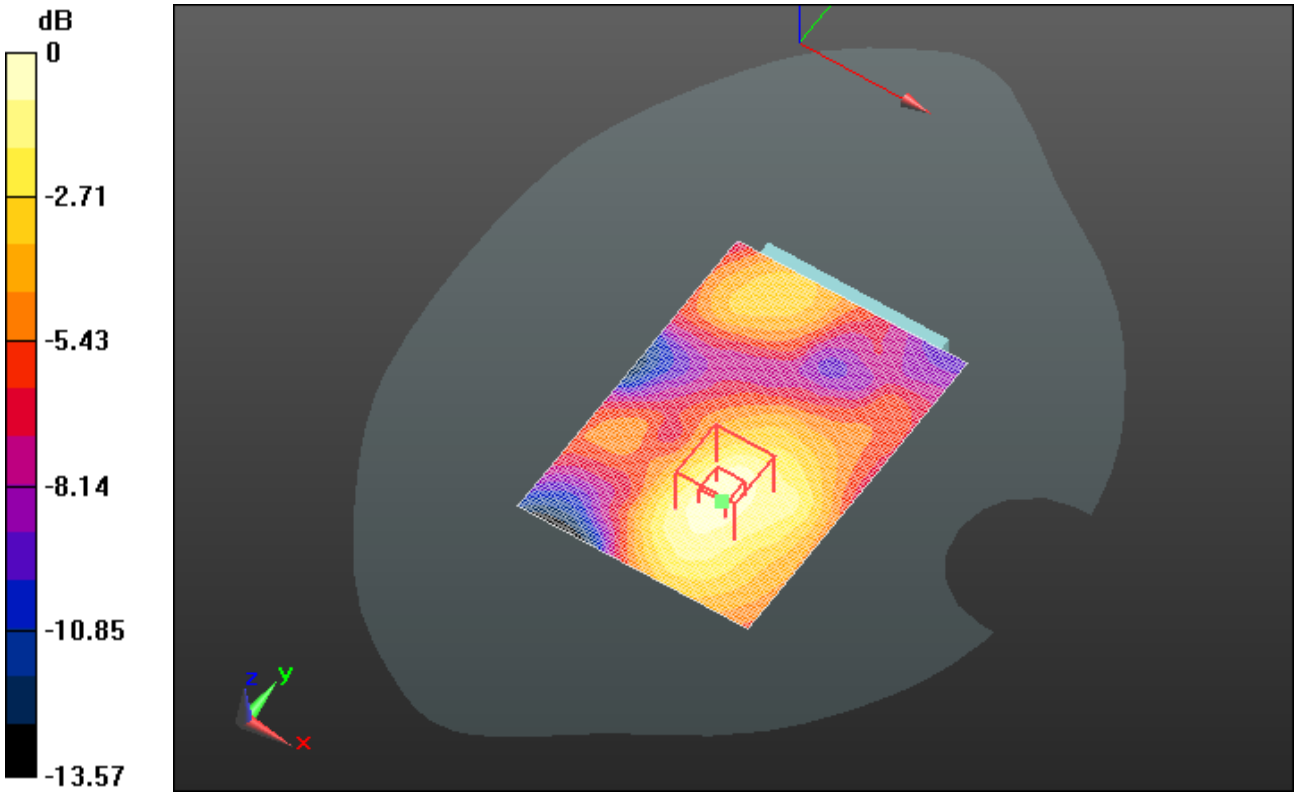
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_Body-Worn SAR/Holster_Device Front_Amb_Temp_23.7C_Liquid_Temp_22.4C/Area Scan (71x101x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 3.190 V/m; Power Drift = 0.06 dB
Fast SAR: SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.030 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.0606 W/kg



0 dB = 0.0606 W/kg = -12.17 dBW/kg

Bluetooth

Date: 1/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 25CF0AD9

Configuration: Flat-Section MSL_Body-Worn SAR

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

Medium Parameters used: f=2441 MHz; σ = 1.894 S/m; ε_r = 51.135; ρ = 1.000 g/cm^3

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.11,4.11,4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Flat-Section MSL_Body-Worn SAR/Device Back_15mm_Amb_Temp_23.9C_Liquid_Temp_21.6C/Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.510 V/m; **Power Drift = -0.227 dB**

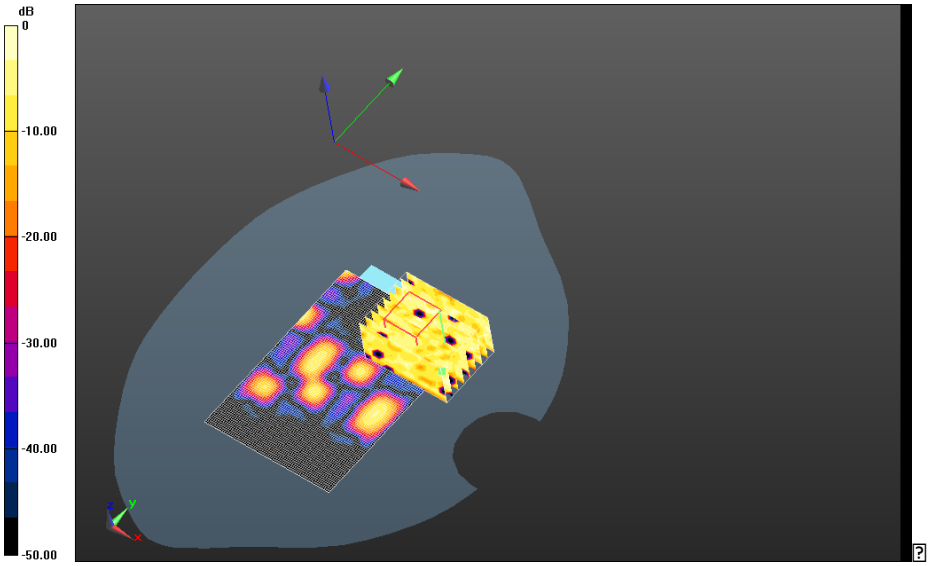
Flat-Section MSL_Body-Worn SAR/Device Back_15mm_Amb_Temp_23.9C_Liquid_Temp_21.6C/Zoom Scan (56x41x36)/Cube 0:

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

Reference Value = 0.510 V/m; **Power Drift = -0.227 dB**

Averaged SAR: SAR(1g) = 0.000154 W/kg; SAR(10g) = 0.0000527 W/kg

Maximum value of SAR (interpolated) = 0.0106 W/kg



0 dB = 0.0106 W/kg = -19.75 dBW/kg

802.11a

Date: 2/26/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Body Worn MSL - 802.11a 5200 MHz Rev 3-03

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5180 MHz
Medium Parameters used: f=5180 MHz; σ = 5.119 S/m; ε_r = 46.984; ρ = 1.000 g/cm^3
Phantom section: Flat Section

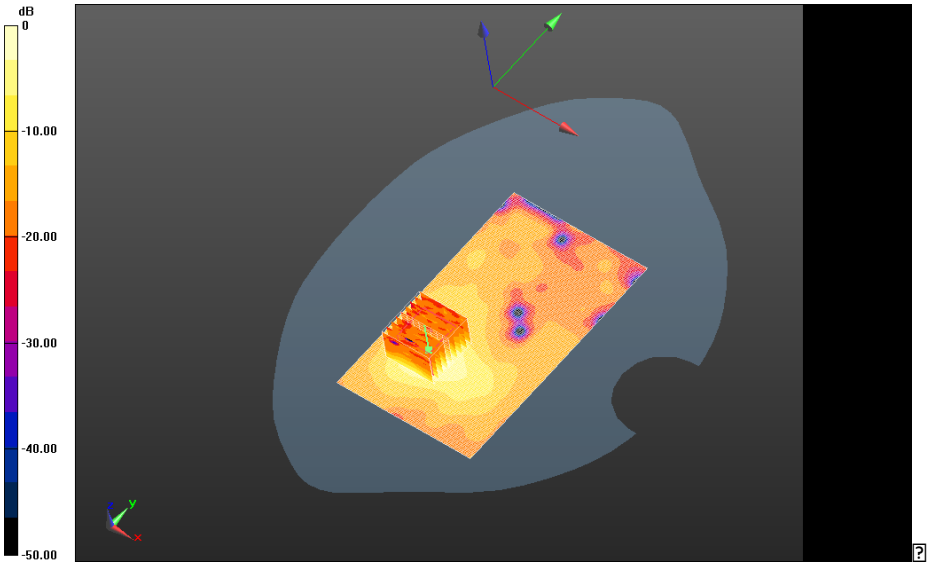
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.02,4.02,4.02); Calibrated: 11/14/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - 802.11a 5200 MHz/Device Back_15mm_ chan36_Amb_Temp_23.9C_Liquid_Temp_21.5C/Area Scan (91x151x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.422 W/kg

Body Worn MSL - 802.11a 5200 MHz/Device Back_15mm_ chan36_Amb_Temp_23.9C_Liquid_Temp_21.5C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.726 V/m; **Power Drift = 0.433 dB**

Averaged SAR: SAR(1g) = 0.235 W/kg; SAR(10g) = 0.0864 W/kg
Maximum value of SAR (interpolated) = 0.823 W/kg

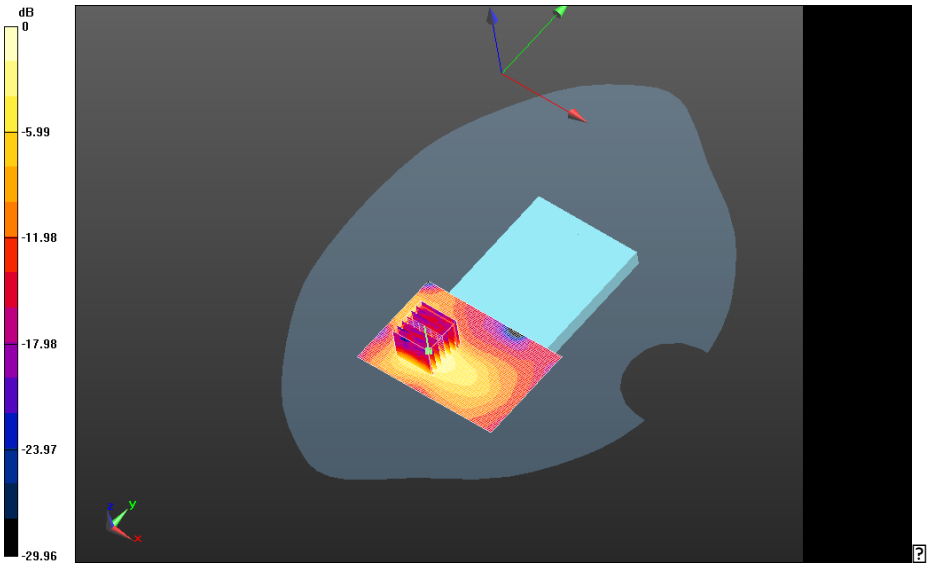


0 dB = 0.420 W/kg = -3.77 dBW/kg

Body Worn MSL - 802.11a 5200 MHz/Device
Back_15mm_chan64_Amb_Temp_23.9C_Liquid_Temp_21.5C/Area Scan (91x61x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.345 W/kg

Body Worn MSL - 802.11a 5200 MHz/Device
Back_15mm_chan64_Amb_Temp_23.9C_Liquid_Temp_21.5C/Zoom Scan (31x31x61)/Cube 0:
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.854 V/m; **Power Drift = 0.606 dB**

Averaged SAR: SAR(1g) = 0.188 W/kg; SAR(10g) = 0.0689 W/kg
Maximum value of SAR (interpolated) = 0.631 W/kg

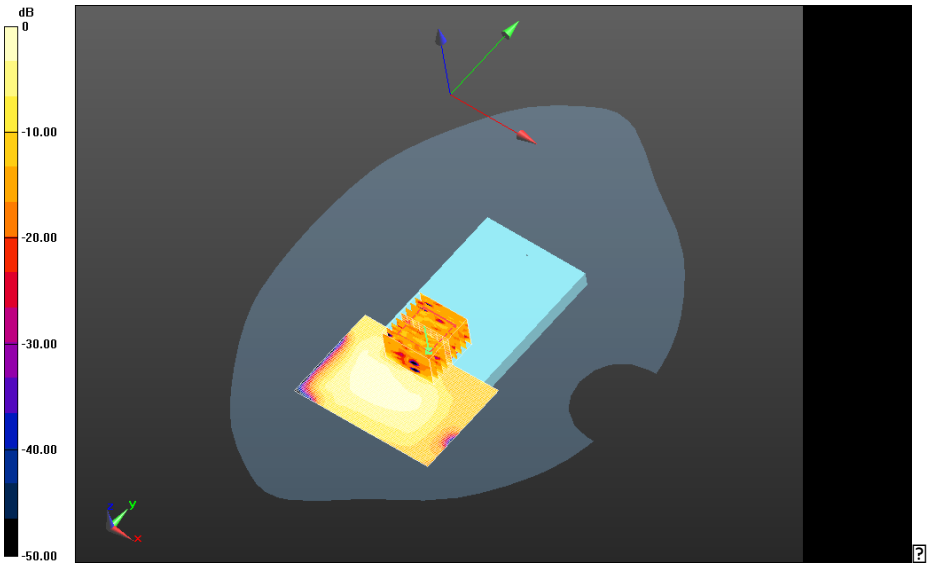


0 dB = 0.420 W/kg = -3.77 dBW/kg

Body Worn MSL - 802.11a 5200 MHz/Holster_Device_Back_ chan36_Amb_Temp_23.5C_Liquid_Temp_21.4C/Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.146 W/kg

Body Worn MSL - 802.11a 5200 MHz/Holster_Device_Back_ chan36_Amb_Temp_23.5C_Liquid_Temp_21.4C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.818 V/m; **Power Drift = 0.169 dB**

Averaged SAR: SAR(1g) = 0.0621 W/kg; SAR(10g) = 0.0159 W/kg
Maximum value of SAR (interpolated) = 0.245 W/kg

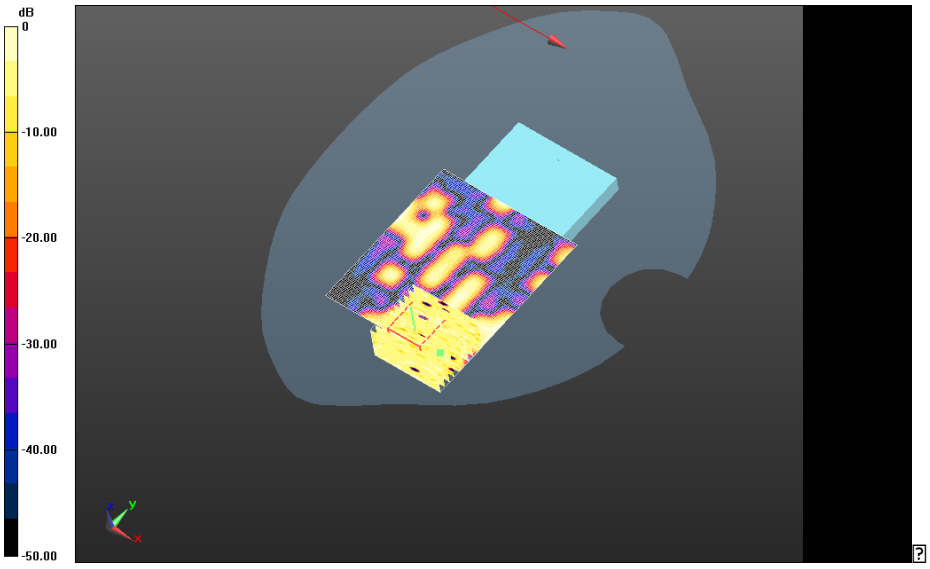


0 dB = 0.328 W/kg = -4.84 dBW/kg

Body Worn MSL - 802.11a 5200 MHz/Holster_Device_Front_ chan36_Amb_Temp_23.3C_Liquid_Temp_21.2C/Area Scan (91x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0213 W/kg

Body Worn MSL - 802.11a 5200 MHz/Holster_Device_Front_ chan36_Amb_Temp_23.3C_Liquid_Temp_21.2C/Zoom Scan (56x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.043 V/m; **Power Drift = 0.619 dB**

Averaged SAR: SAR(1g) = 0.00631 W/kg; SAR(10g) = 0.00432 W/kg
Maximum value of SAR (interpolated) = 0.0511 W/kg

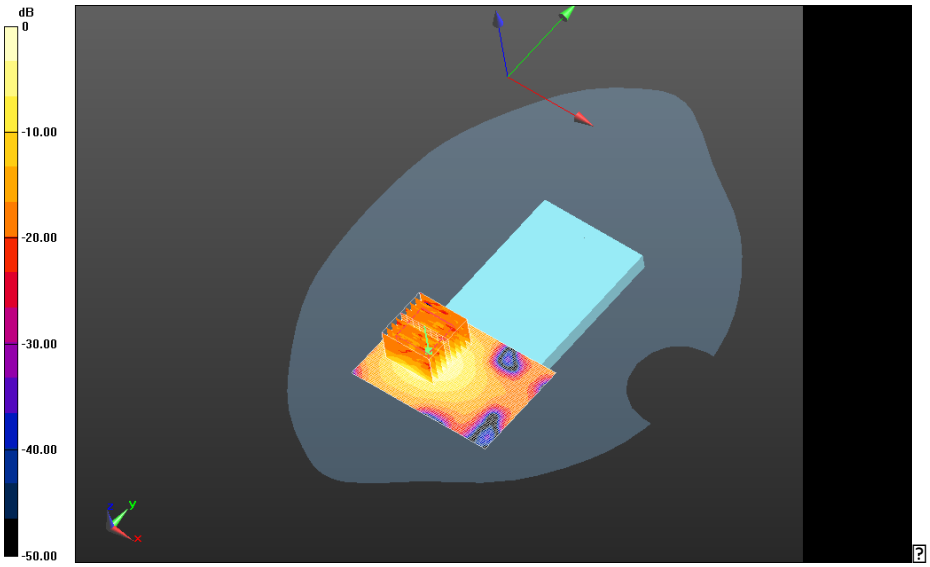


0 dB = 0.137 W/kg = -8.63 dBW/kg

Body Worn MSL - 802.11a 5200 MHz/Device Back_15mm+HS_ chan36_Amb_Temp_23.5C_Liquid_Temp_21.4C/Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.370 W/kg

Body Worn MSL - 802.11a 5200 MHz/Device Back_15mm+HS_ chan36_Amb_Temp_23.5C_Liquid_Temp_21.4C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 5.869 V/m; **Power Drift = 0.275 dB**

Averaged SAR: SAR(1g) = 0.185 W/kg; SAR(10g) = 0.0680 W/kg
Maximum value of SAR (interpolated) = 0.674 W/kg

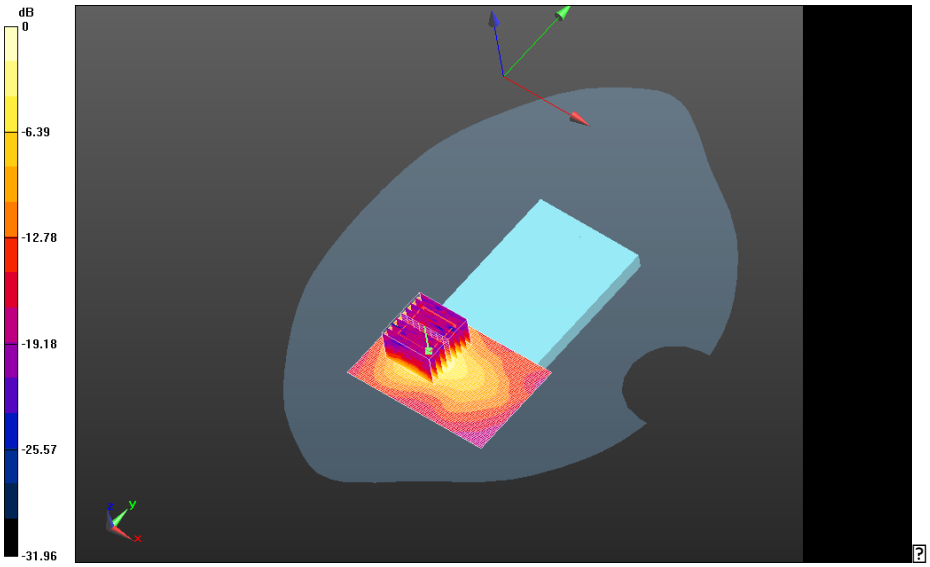


0 dB = 0.346 W/kg = -4.61 dBW/kg

Body Worn MSL - 802.11a 5200 MHz/Device Back+2100mA_15mm_ chan36_Amb_Temp_23.9C_Liquid_Temp_21.5C/Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.454 W/kg

Body Worn MSL - 802.11a 5200 MHz/Device Back+2100mA_15mm_ chan36_Amb_Temp_23.9C_Liquid_Temp_21.5C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 6.587 V/m; **Power Drift = 0.068 dB**

Averaged SAR: SAR(1g) = 0.237 W/kg; SAR(10g) = 0.0867 W/kg
Maximum value of SAR (interpolated) = 0.805 W/kg



0 dB = 0.0135 W/kg = -18.70 dBW/kg

Date: 2/26/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Body Worn MSL - 802.11a 5500 MHz Rev 3-03

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5520 MHz
Medium Parameters used: f=5520 MHz; σ = 5.671 S/m; ε_r = 47.884; ρ = 1.000 g/cm^3
Phantom section: Flat Section

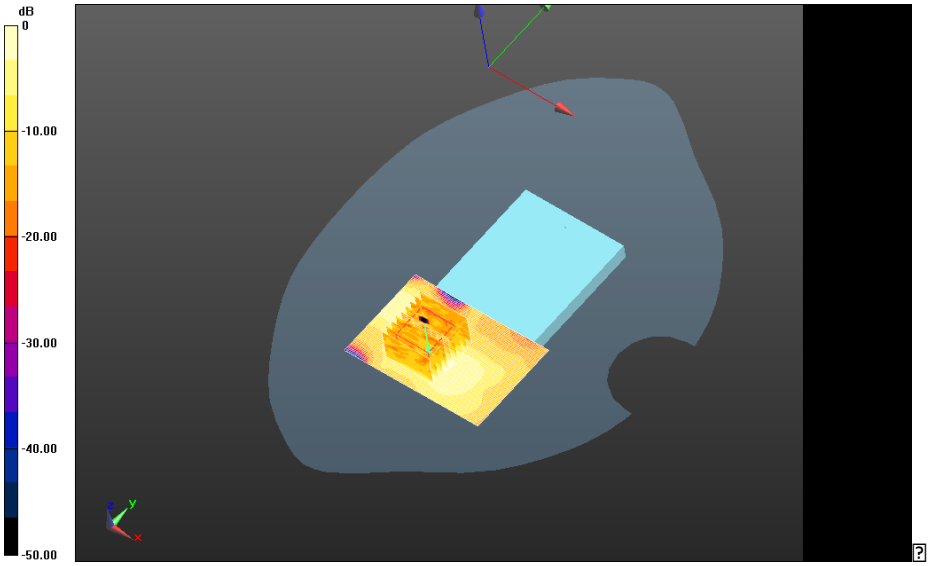
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.66,3.66,3.66); Calibrated: 11/14/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - 802.11a 5500 MHz/Device Back_15mm_chan104_Amb_Temp_23.3C_Liquid_Temp_21.5C/Area Scan (91x61x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.150 W/kg

Body Worn MSL - 802.11a 5500 MHz/Device Back_15mm_chan104_Amb_Temp_23.3C_Liquid_Temp_21.5C/Zoom Scan (41x41x61)/Cube 0:
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.528 V/m; **Power Drift = 0.00334 dB**

Averaged SAR: SAR(1g) = 0.0809 W/kg; SAR(10g) = 0.0290 W/kg
Maximum value of SAR (interpolated) = 0.587 W/kg



0 dB = 0.151 W/kg = -8.21 dBW/kg

Date: 2/26/2013

Test Lab: RIM Testing Services
DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Body Worn MSL - 802.11a 5800 MHz Rev 3-03

Communication System: 802.11a ; Communication System Band: Upper band II; Frequency: 5745 MHz
Medium Parameters used: f=5745 MHz; σ = 5.721 S/m; ε_r = 45.830; ρ = 1.000 g/cm^3
Phantom section: Flat Section

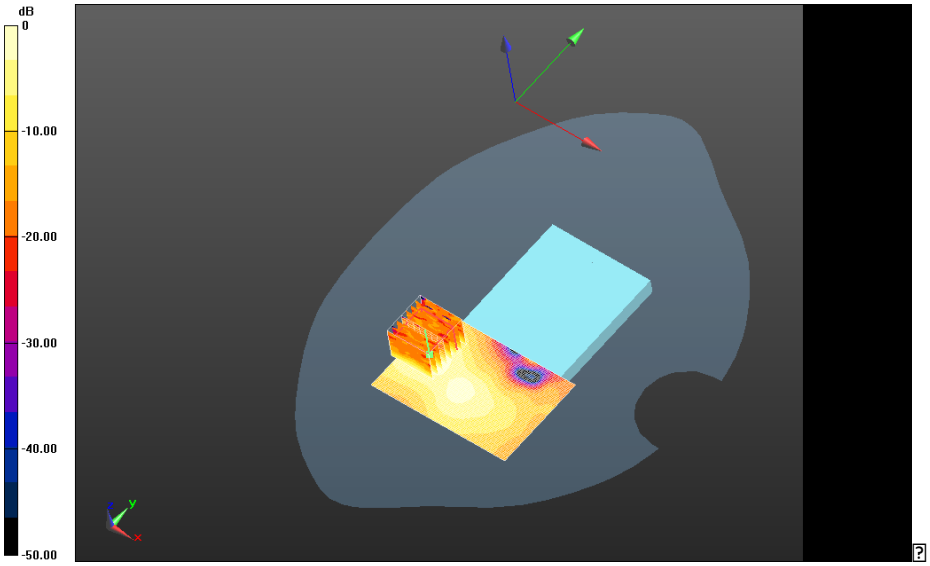
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.57,3.57,3.57); Calibrated: 11/14/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Body Worn MSL - 802.11a 5800 MHz/Device Back_15mm_chan149_Amb_Temp_23.3C_Liquid_Temp_21.5C/Area Scan (91x61x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.340 W/kg

Body Worn MSL - 802.11a 5800 MHz/Device Back_15mm_chan149_Amb_Temp_23.3C_Liquid_Temp_21.5C/Zoom Scan (36x36x61)/Cube 0:
Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.031 V/m; **Power Drift = 0.490 dB**

Averaged SAR: SAR(1g) = 0.181 W/kg; SAR(10g) = 0.0686 W/kg
Maximum value of SAR (interpolated) = 0.705 W/kg



0 dB = 0.338 W/kg = -4.71 dBW/kg

Z axis plot for the worst case body configuration