

		Document Appendix A for the BlackBerry® Smartphone Model RHL211LW (STV100-3) SAR Report			Page 1(43)
Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

750 MHz

Date/Time: 8/25/2015 12:41:09 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_750MHz_08_25_15_Amb_Tem_23.8C_Liq_Tem_23.1C

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1021

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 42.132$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.69, 6.69, 6.69); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/d=15mm,
Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated
grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 101.4 V/m ; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 8 W/kg ; SAR(10 g) = 5.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.61 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm,
Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube

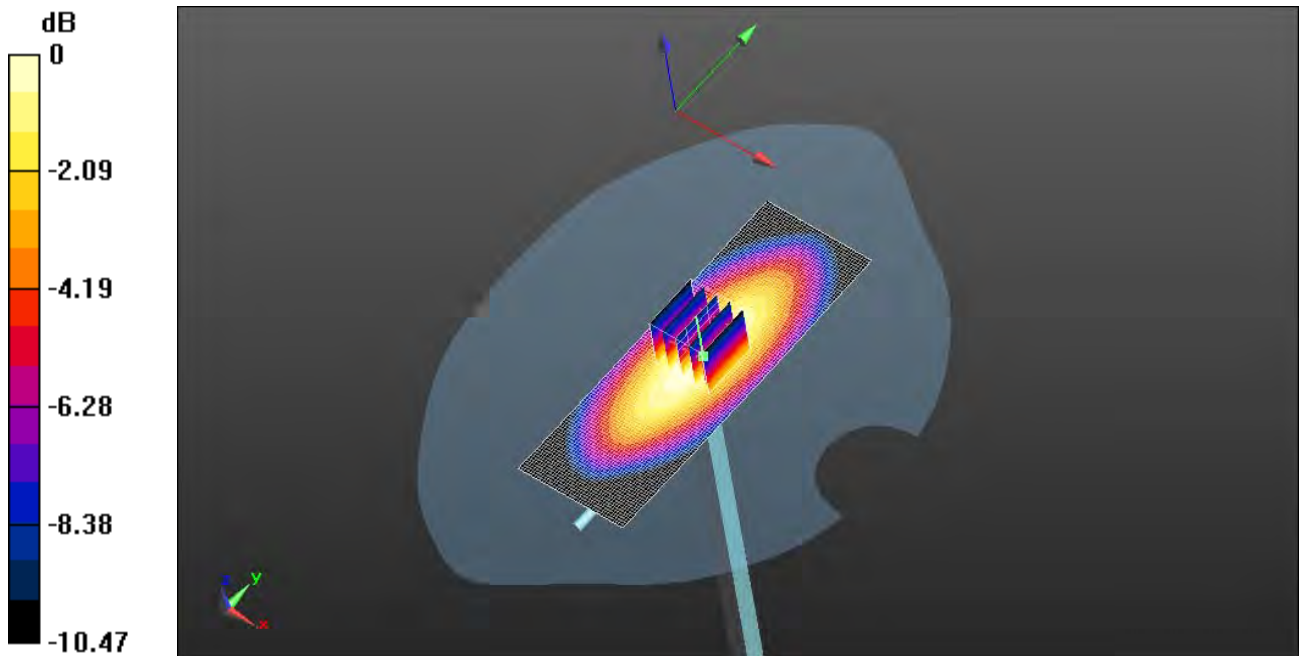
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 101.4 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 7.92 W/kg ; SAR(10 g) = 5.21 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.61 W/kg



0 dB = 8.61 W/kg = 9.35 dBW/kg

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Date/Time: 8/28/2015 11:20:22 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_750MHz_08_28_15_Amb_Tem_24.5C_Liq_Tem_22.8C

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1021

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 41.611$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.69, 6.69, 6.69); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 102.6 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 8.13 W/kg; SAR(10 g) = 5.45 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.73 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube

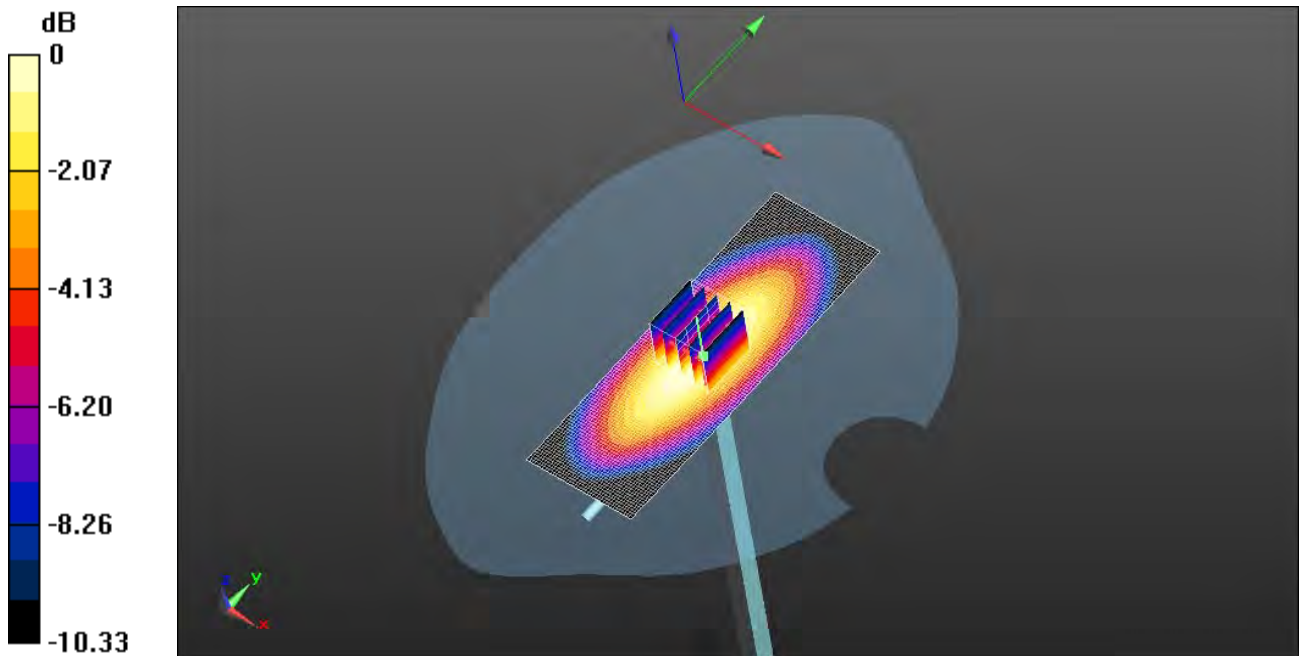
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 102.6 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 5.33 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.68 W/kg



0 dB = 8.68 W/kg = 9.39 dBW/kg

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835 MHz

Date/Time: 8/12/2015 5:03:10 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_08_12_15_Amb_Tem_23.9C_Liq_Tem_23.1C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.875 \text{ S/m}$; $\epsilon_r = 41.551$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/ $d=15\text{mm}$,

Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 109.6 V/m ; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 9.01 W/kg ; SAR(10 g) = 5.96 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 9.49 W/kg

System Performance Check at Frequencies below 1 GHz/ $d=15\text{mm}$,

Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube

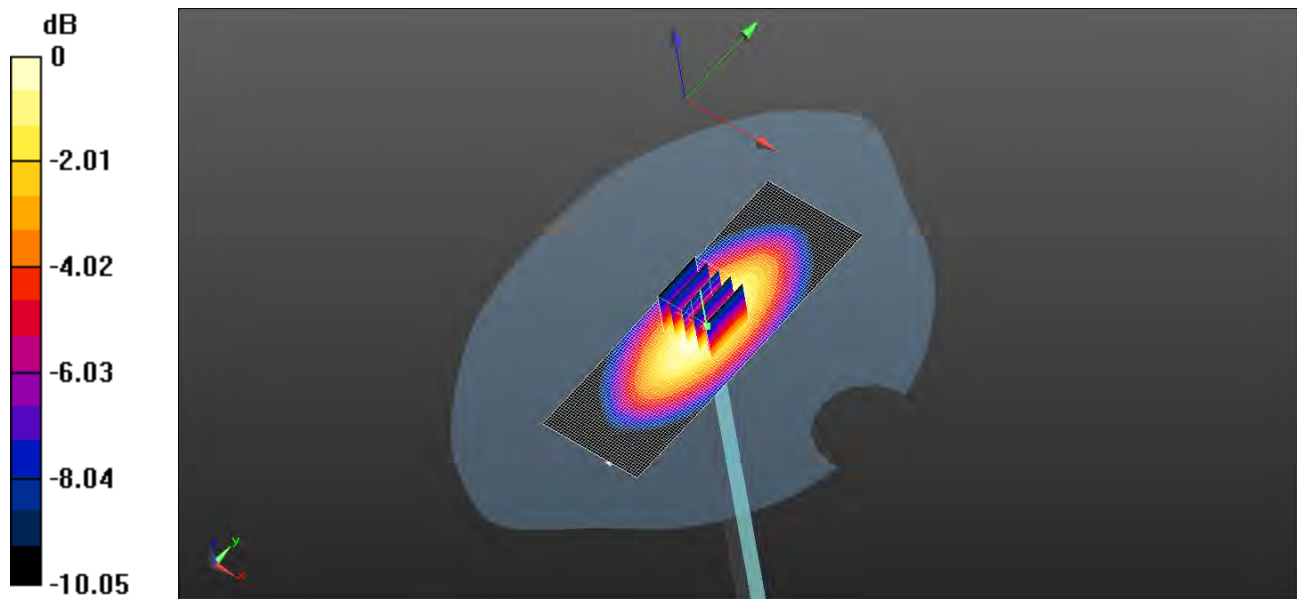
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 109.6 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 8.97 W/kg ; SAR(10 g) = 5.96 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.52 W/kg



0 dB = 9.52 W/kg = 9.79 dBW/kg

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Date/Time: 8/17/2015 1:30:47 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_08_17_15_Amb_Tem_23.7C_Liq_Tem_23.6C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 41.254$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 110.0 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 9.31 W/kg; SAR(10 g) = 6.16 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 9.88 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube

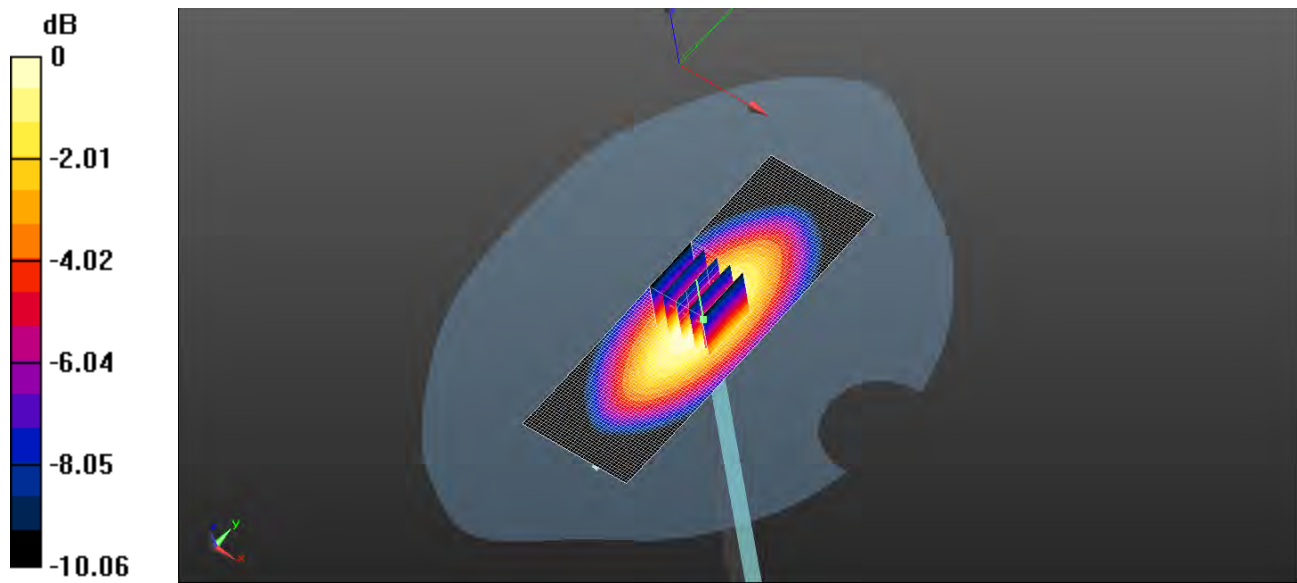
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 110.0 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 12.6 W/kg

SAR(1 g) = 9.18 W/kg; SAR(10 g) = 6.12 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.75 W/kg



0 dB = 9.75 W/kg = 9.89 dBW/kg

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Date/Time: 8/20/2015 4:04:39 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_08_20_15_Amb_Tem_24.1C_Liq_Tem_23.0C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.874 \text{ S/m}$; $\epsilon_r = 40.532$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 110.0 V/m ; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 9.16 W/kg; SAR(10 g) = 6.06 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 9.71 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube

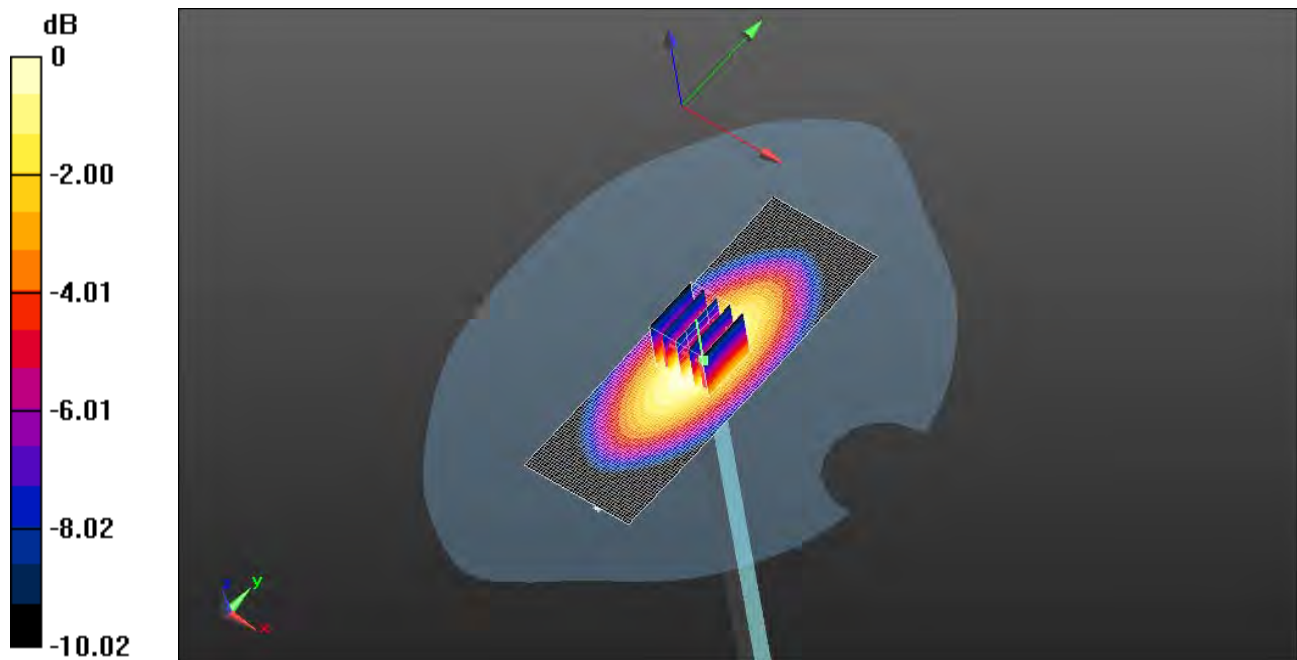
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 110.0 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 9.07 W/kg; SAR(10 g) = 6.04 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.62 W/kg



0 dB = 9.62 W/kg = 9.83 dBW/kg

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Date/Time: 9/16/2015 6:05:07 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_09_16_15_Amb_Tem_24.1C_Liq_Tem_23.1C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 41.076$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies below 1 GHz/d=15mm,

Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 109.2 V/m ; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 9.05 W/kg; SAR(10 g) = 5.98 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 9.58 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm,

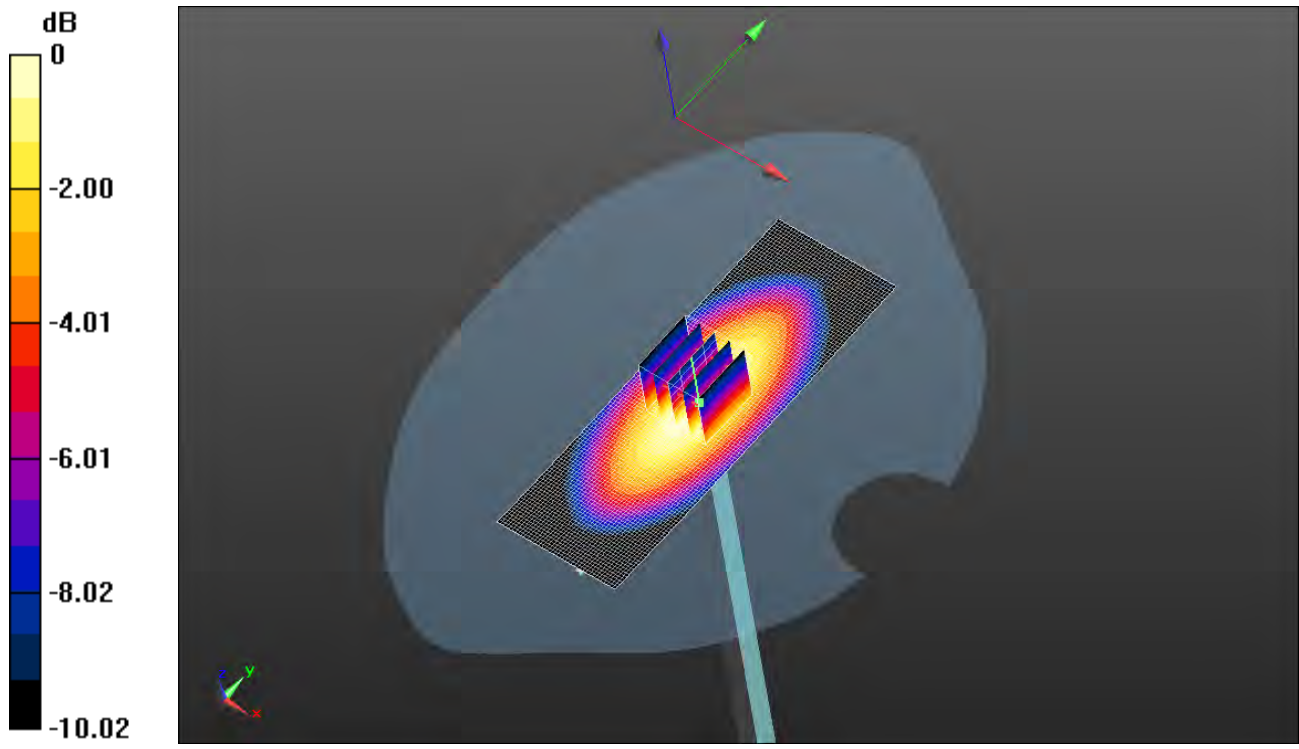
Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 109.2 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 9 W/kg; SAR(10 g) = 5.98 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.56 W/kg



0 dB = 9.56 W/kg = 9.80 dBW/kg

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1800 MHz

Date/Time: 7/27/2015 3:54:38 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_1800MHz_07_27_15_Amb_Tem_23.6C_Liq_Tem_22.6C

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.427 \text{ S/m}$; $\epsilon_r = 38.347$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

(41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 169.7 V/m ; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 35.7 W/kg ; SAR(10 g) = 19.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 41.0 W/kg

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

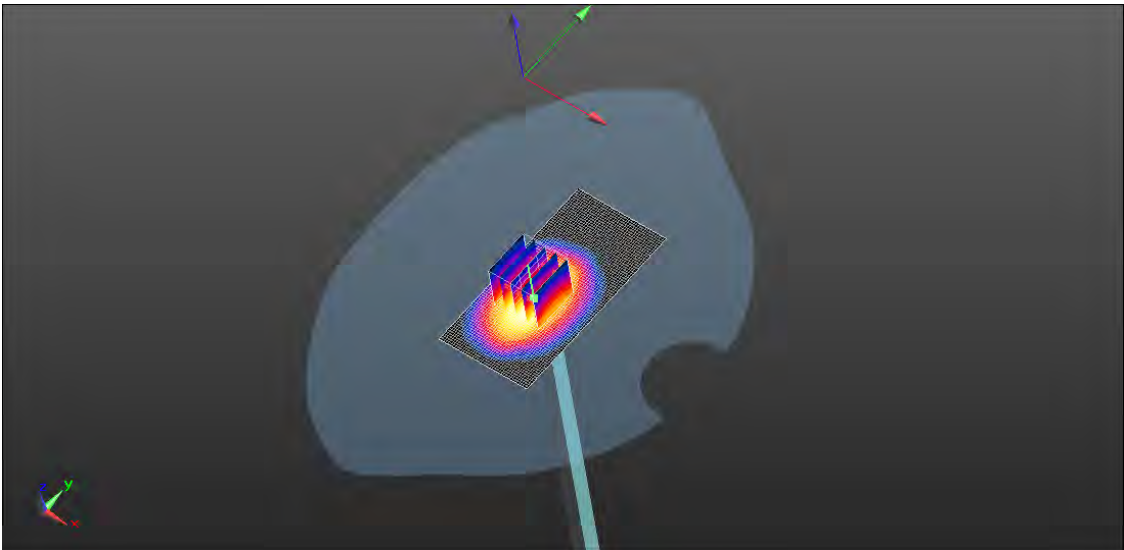
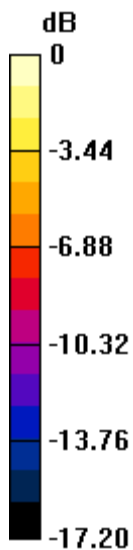
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 169.7 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 59.3 W/kg

SAR(1 g) = 34.9 W/kg ; SAR(10 g) = 18.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 39.2 W/kg



0 dB = 39.2 W/kg = 15.93 dBW/kg

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Date/Time: 8/31/2015 1:33:42 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1800MHz_08_31_15_Amb_Tem_23.7C_Liq_Tem_23.5C

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.426 \text{ S/m}$; $\epsilon_r = 38.274$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

(41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 178.1 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 36.8 W/kg; SAR(10 g) = 19.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 42.7 W/kg

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

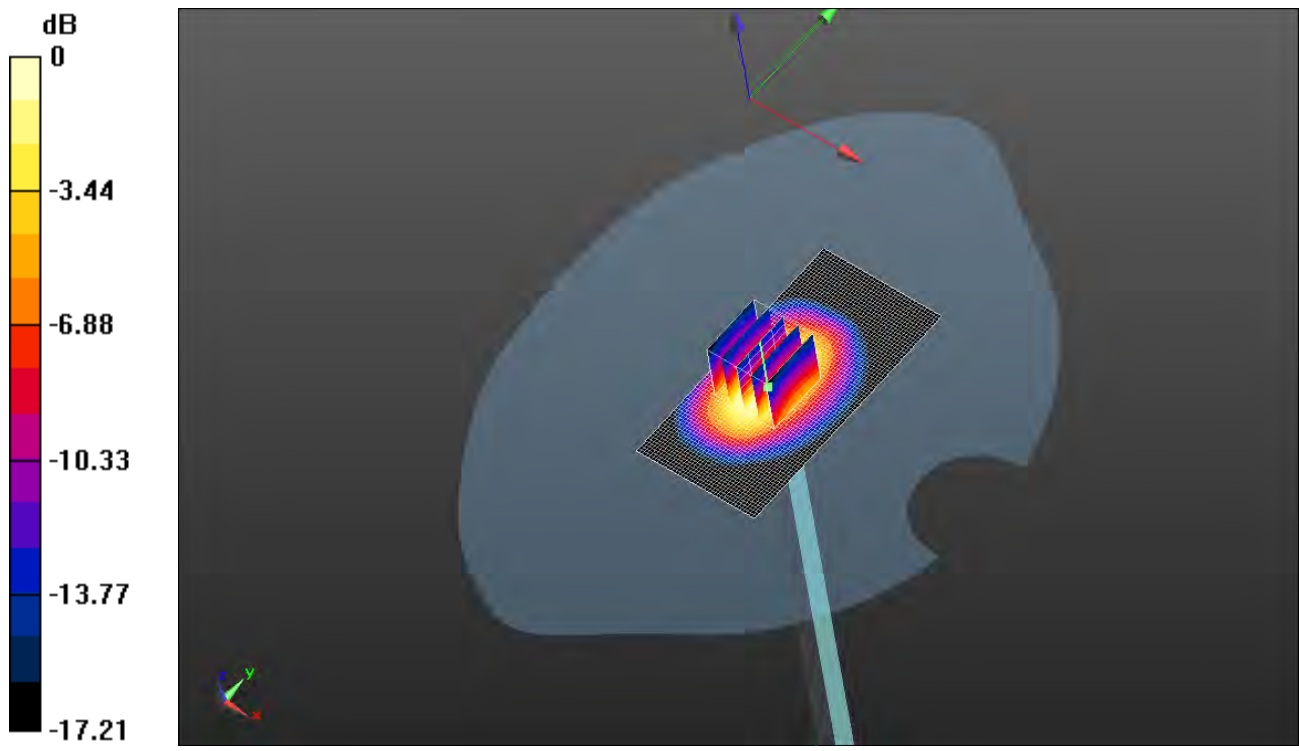
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 178.1 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 61.3 W/kg

SAR(1 g) = 35.9 W/kg; SAR(10 g) = 19.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 40.5 W/kg



0 dB = 40.5 W/kg = 16.07 dBW/kg

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1900 MHz

Date/Time: 7/22/2015 5:09:30 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_07_22_15_Amb_Tem_24.1C_Liq_Tem_22.6C

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.394 \text{ S/m}$; $\epsilon_r = 38.464$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

(41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 179.1 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 38 W/kg; SAR(10 g) = 20.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 44.1 W/kg

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

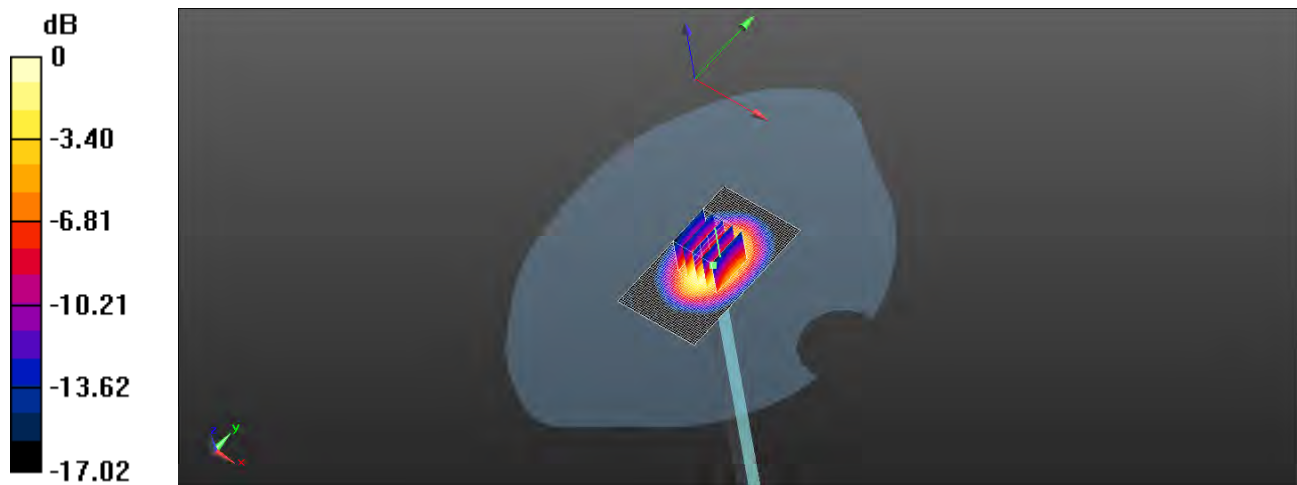
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 179.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 62.4 W/kg

SAR(1 g) = 37.3 W/kg; SAR(10 g) = 20.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 41.2 W/kg



0 dB = 41.2 W/kg = 16.15 dBW/kg

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Date/Time: 7/27/2015 2:34:38 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_07_27_15_Amb_Tem_23.7C_Liq_Tem_22.9 C

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.379 \text{ S/m}$; $\epsilon_r = 39.085$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

(41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 179.3 V/m ; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 37 W/kg; SAR(10 g) = 19.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 42.9 W/kg

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

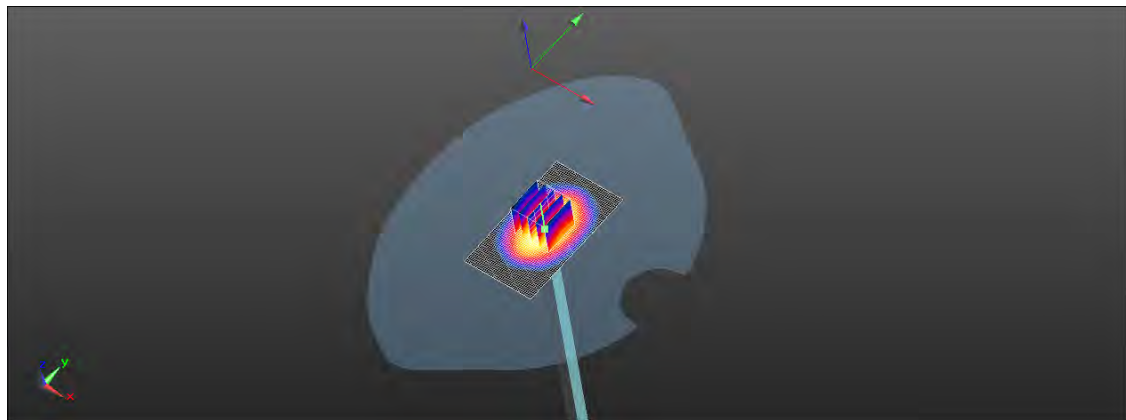
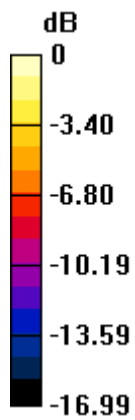
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 179.3 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 60.4 W/kg

SAR(1 g) = 36.3 W/kg; SAR(10 g) = 19.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 40.4 W/kg



0 dB = 40.4 W/kg = 16.06 dBW/kg

		Document Appendix A for the BlackBerry® Smartphone Model RHL211LW (STV100-3) SAR Report			Page 22(43)
Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 9/1/2015 5:14:54 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_09_01_15_Amb_Tem_23.8C_Liq_Tem_23.3C

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.375 \text{ S/m}$; $\epsilon_r = 38.855$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

(41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 181.9 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 37.8 W/kg; SAR(10 g) = 19.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 44.2 W/kg

System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

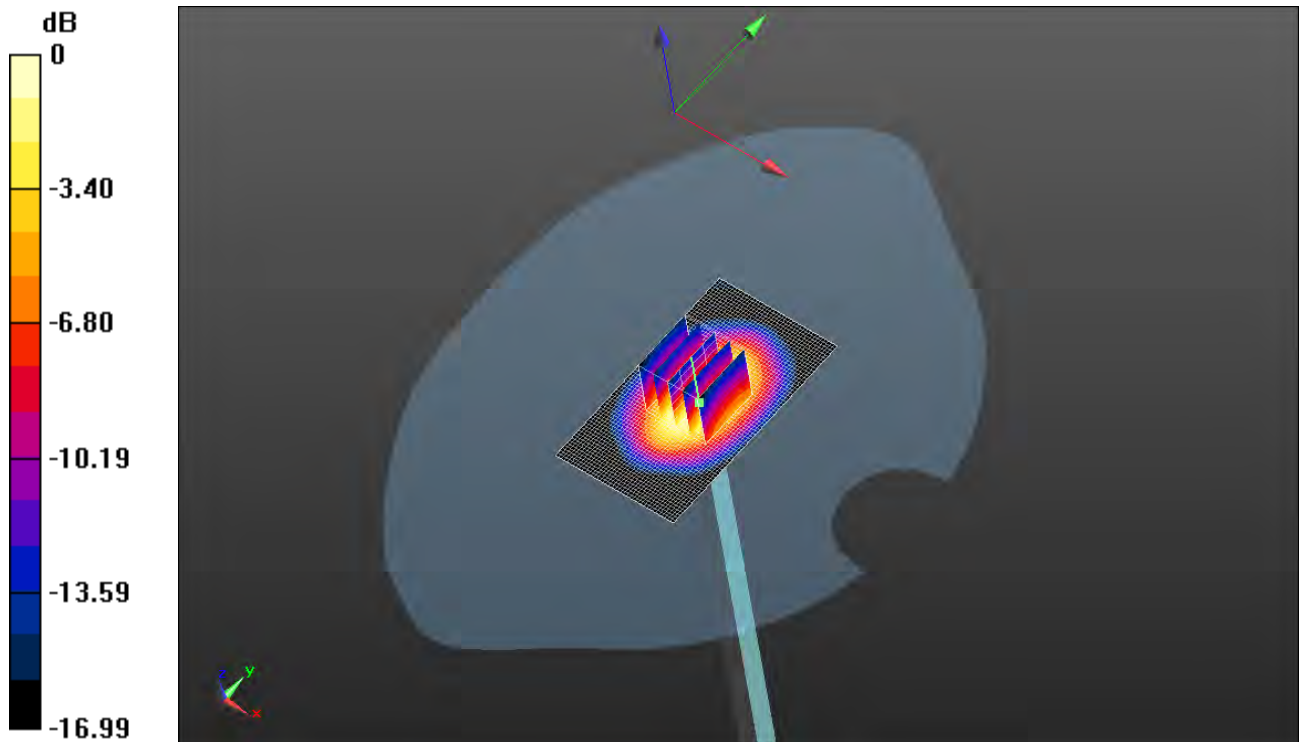
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 181.9 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 61.5 W/kg

SAR(1 g) = 36.9 W/kg; SAR(10 g) = 19.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 41.1 W/kg



0 dB = 41.1 W/kg = 16.14 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

2300 MHz

Date/Time: 8/7/2015 11:40:54 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_2300MHz_08_07_15_Amb_Tem_24.2C_Liq_Tem_22.6C

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:791

Communication System: UID 0, CW (0); Frequency: 2300 MHz

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.691$ S/m; $\epsilon_r = 37.782$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.77, 4.77, 4.77); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan

(41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 195.4 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 48.8 W/kg; SAR(10 g) = 23.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 64.7 W/kg

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan

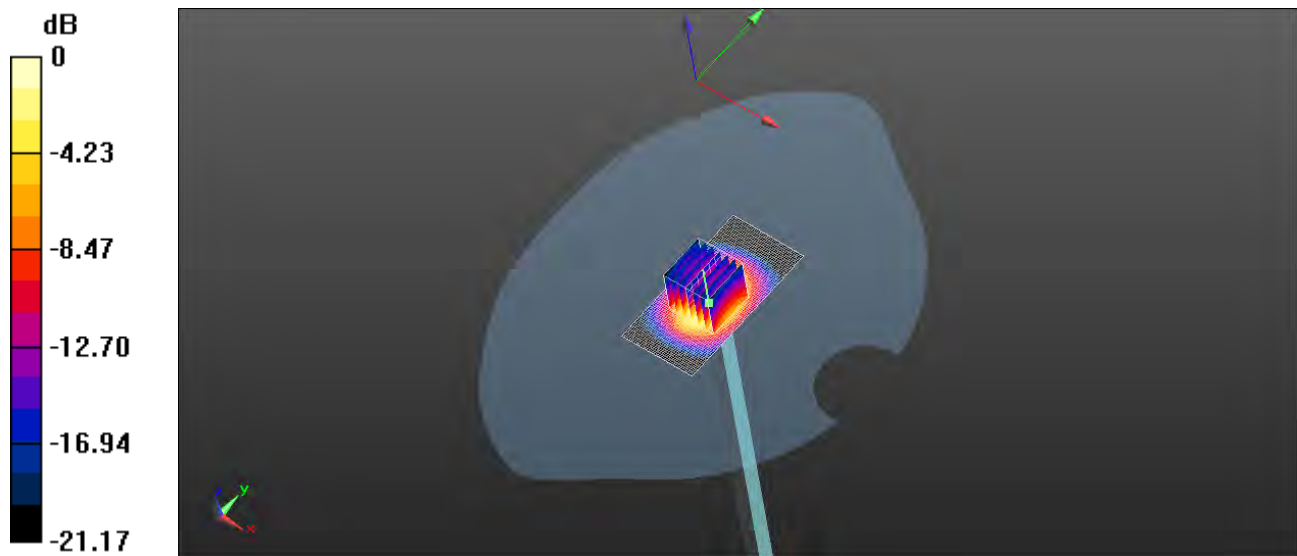
(7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 195.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 96.2 W/kg

SAR(1 g) = 48.2 W/kg; SAR(10 g) = 22.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 63.0 W/kg



0 dB = 63.0 W/kg = 17.99 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 8/10/2015 1:28:13 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_2300MHz_08_10_15_Amb_Tem_23.7C_Liq_Tem_23.1C

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:791

Communication System: UID 0, CW (0); Frequency: 2300 MHz

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.71$ S/m; $\epsilon_r = 37.815$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.77, 4.77, 4.77); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan

(41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 200.2 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 49.7 W/kg; SAR(10 g) = 23.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 64.2 W/kg

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan

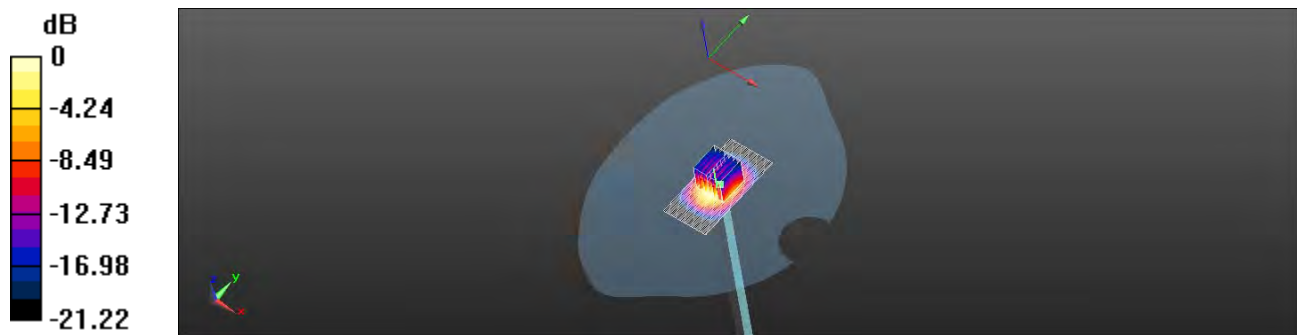
(7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 200.2 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 96.1 W/kg

SAR(1 g) = 48.8 W/kg; SAR(10 g) = 23.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 62.7 W/kg



0 dB = 62.7 W/kg = 17.97 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

2450 MHz

Date/Time: 9/4/2015 4:06:49 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2450MHz_09_04_15_Amb_Tem_23.8C_Liq_Tem_23.0C

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 37.433$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3 GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Area Scan (41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 191.3 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 55.1 W/kg; SAR(10 g) = 25.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 73.8 W/kg

System Performance Check at Frequencies between 2 GHz - 3 GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

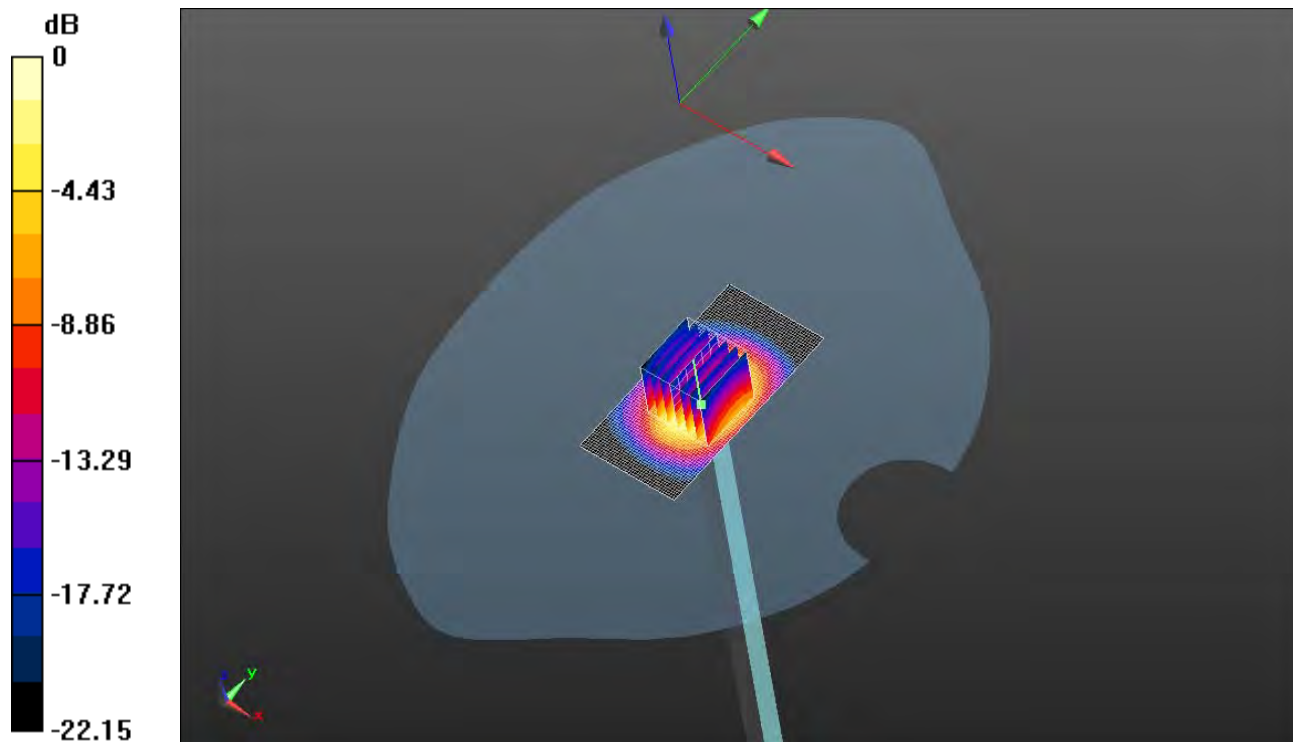
		Document Appendix A for the BlackBerry® Smartphone Model RHL211LW (STV100-3) SAR Report			Page 29(43)
Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Reference Value = 191.3 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 110 W/kg

SAR(1 g) = 54.3 W/kg; SAR(10 g) = 25.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 70.8 W/kg



0 dB = 70.8 W/kg = 18.50 dBW/kg

		Document Appendix A for the BlackBerry® Smartphone Model RHL211LW (STV100-3) SAR Report			Page 30(43)
Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 9/15/2015 7:35:47 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2450MHz_09_15_15_Amb_Tem_23.9C_Liq_Tem_22.9C

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 37.915$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan

(41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 206.4 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 55.9 W/kg; SAR(10 g) = 26 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 74.0 W/kg

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan

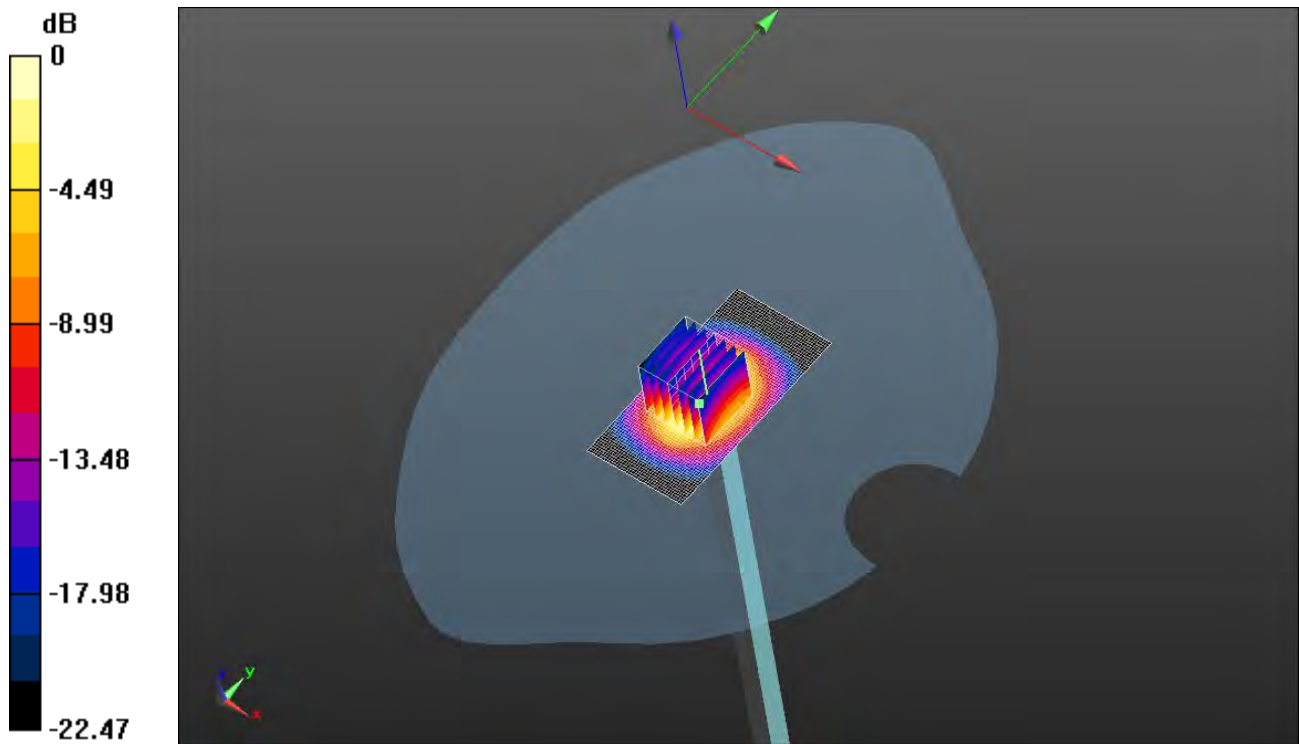
(7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 206.4 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 110 W/kg

SAR(1 g) = 54.8 W/kg; SAR(10 g) = 25.8 W/kg (SAR corrected for target

medium)
Maximum value of SAR (measured) = 71.3 W/kg



0 dB = 71.3 W/kg = 18.53 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

2600 MHz

Date/Time: 7/29/2015 2:16:40 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2600MHz_07_29_15_Amb_Tem_24.2C_Liq_Tem_23.0C

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.93$ S/m; $\epsilon_r = 37.892$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.4, 4.4, 4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Area Scan

(41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 205.1 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 58.5 W/kg; SAR(10 g) = 26.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 78.3 W/kg

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)

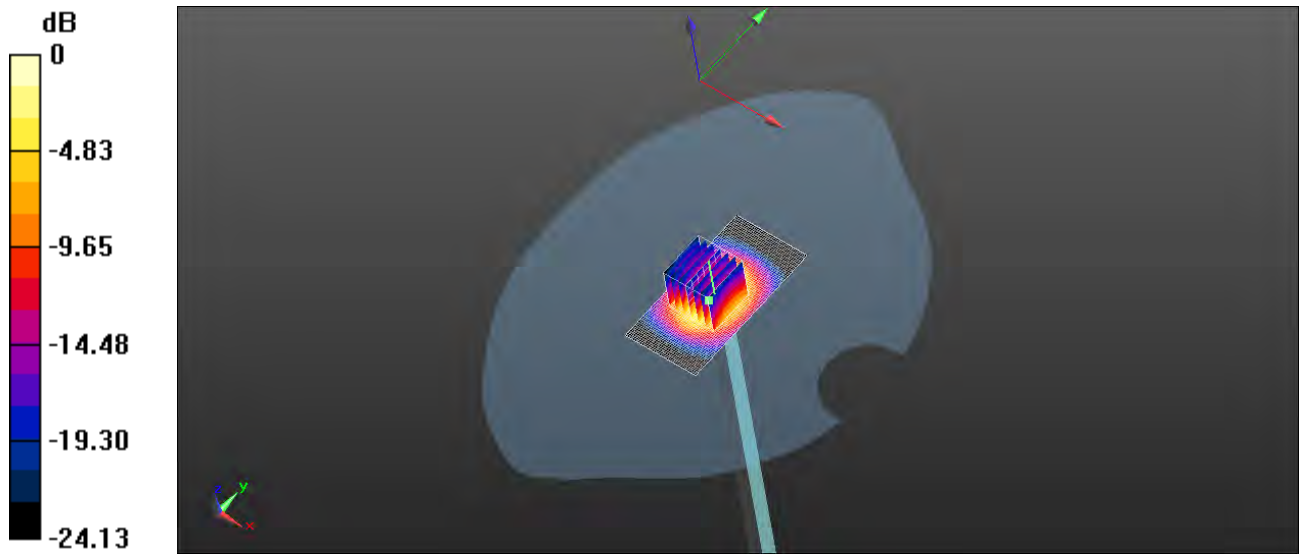
(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 205.1 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 123 W/kg

SAR(1 g) = 58.1 W/kg; SAR(10 g) = 26.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 76.5 W/kg



0 dB = 76.5 W/kg = 18.84 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 8/4/2015 1:44:48 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_2600MHz_08_04_15_Amb_Tem_23.8C_Liq_Tem_23.0C

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.996$ S/m; $\epsilon_r = 37.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.4, 4.4, 4.4); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequencies between 2 GHz - 3 GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Area Scan

(41x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 206.4 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 60.2 W/kg; SAR(10 g) = 26.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 79.0 W/kg

System Performance Check at Frequencies between 2 GHz - 3 GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)

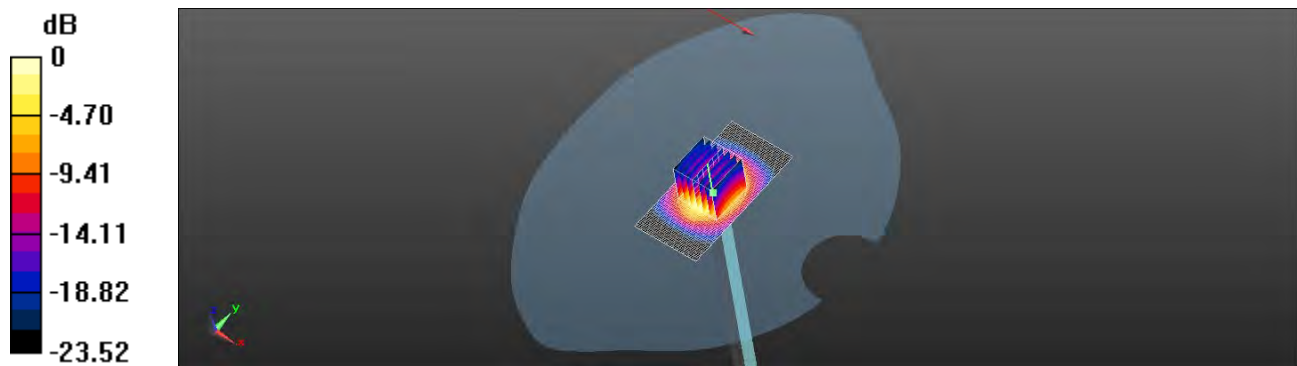
(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 206.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 125 W/kg

SAR(1 g) = 58.7 W/kg; SAR(10 g) = 26.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 78.3 W/kg



0 dB = 78.3 W/kg = 18.94 dBW/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW

5000-6000 MHz

Date/Time: 9/9/2015 5:14:20 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_5000MHz_09_09_15_Amb_Tem_23.7C_Liq_Tem_22.6C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.715$ S/m; $\epsilon_r = 34.347$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.63, 4.63, 4.63); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequency 5200 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated

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

Reference Value = 204.2 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 81.6 W/kg; SAR(10 g) = 22.8 W/kg

Maximum value of SAR (interpolated) = 178 W/kg

System Performance Check at Frequency 5200 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12) (7x7x7)/Cube

0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 204.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 340 W/kg

SAR(1 g) = 85.5 W/kg; SAR(10 g) = 24.7 W/kg

Maximum value of SAR (measured) = 173 W/kg

		Document Appendix A for the BlackBerry® Smartphone Model RHL211LW (STV100-3) SAR Report			Page 37(43)
Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 9/9/2015 7:17:50 AM

Test Laboratory: BlackBerry RTS

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 5500 MHz

Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.093 \text{ S/m}$; $\epsilon_r = 34.139$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.2, 4.2, 4.2); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequency 5500 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated

grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 203.3 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 85.8 W/kg; SAR(10 g) = 23.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 191 W/kg

System Performance Check at Frequency 5500 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

(7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 203.3 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 385 W/kg

SAR(1 g) = 90.5 W/kg; SAR(10 g) = 25.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 192 W/kg

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Author Data Andrew Becker	Dates of Test July 22 – Sept 21, 2015	Test Report No RTS-6066-1509-17	FCC ID: L6ARHL210LW	IC 2503A-RHL210LW	

Date/Time: 9/9/2015 9:38:51 AM

Test Laboratory: BlackBerry RTS

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.464 \text{ S/m}$; $\epsilon_r = 33.717$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.34, 4.34, 4.34); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequency 5800 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated

grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 194.6 V/m ; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 82.7 W/kg ; SAR(10 g) = 23 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 185 W/kg

System Performance Check at Frequency 5800 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

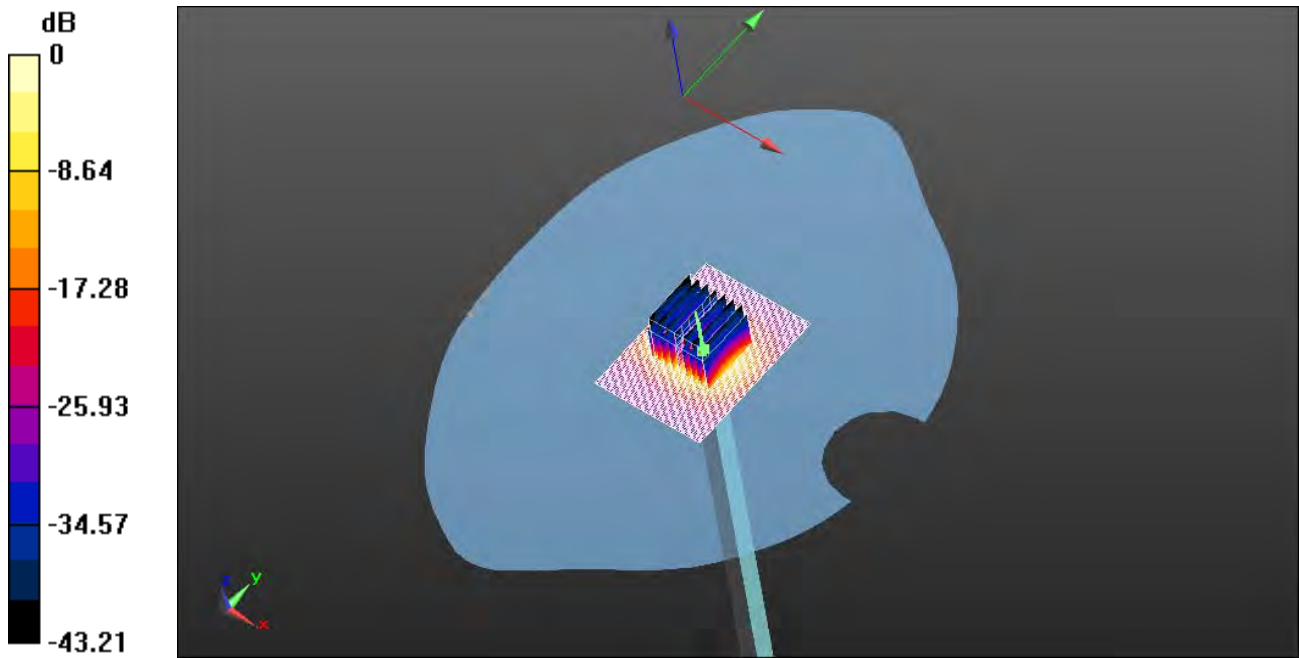
(9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 194.6 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 371 W/kg

SAR(1 g) = 85.8 W/kg ; SAR(10 g) = 24.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 182 W/kg



0 dB = 182 W/kg = 22.60 dBW/kg

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Date/Time: 9/14/2015 3:59:35 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_5000MHz_09_14_15_Amb_Tem_23.9C_Liq_Tem_22.8 C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.73 \text{ S/m}$; $\epsilon_r = 34.714$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.63, 4.63, 4.63); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5200 MHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated
grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Reference Value = 200.5 V/m ; Power Drift = 0.04 dB
Fast SAR: SAR(1 g) = 78.4 W/kg; SAR(10 g) = 22 W/kg
Maximum value of SAR (interpolated) = 169 W/kg

**System Performance Check at Frequency 5200 MHz/d=10mm,
Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12) (7x7x7)/Cube
0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 200.5 V/m ; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 333 W/kg
SAR(1 g) = 83.9 W/kg; SAR(10 g) = 24.3 W/kg
Maximum value of SAR (measured) = 170 W/kg

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Date/Time: 9/14/2015 4:19:20 AM

Test Laboratory: BlackBerry RTS

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.086$ S/m; $\epsilon_r = 34.207$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.2, 4.2, 4.2); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequency 5500 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated

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

Reference Value = 205.8 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 85.6 W/kg; SAR(10 g) = 23.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 188 W/kg

System Performance Check at Frequency 5500 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 205.8 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 371 W/kg

SAR(1 g) = 90 W/kg; SAR(10 g) = 26.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 186 W/kg

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Date/Time: 9/14/2015 6:03:23 AM

Test Laboratory: BlackBerry RTS

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.442 \text{ S/m}$; $\epsilon_r = 33.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.34, 4.34, 4.34); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

System Performance Check at Frequency 5800 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1): Interpolated

grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 192.3 V/m ; Power Drift = 0.08 dB

Fast SAR: SAR(1 g) = 83 W/kg ; SAR(10 g) = 22.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 186 W/kg

System Performance Check at Frequency 5800 MHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

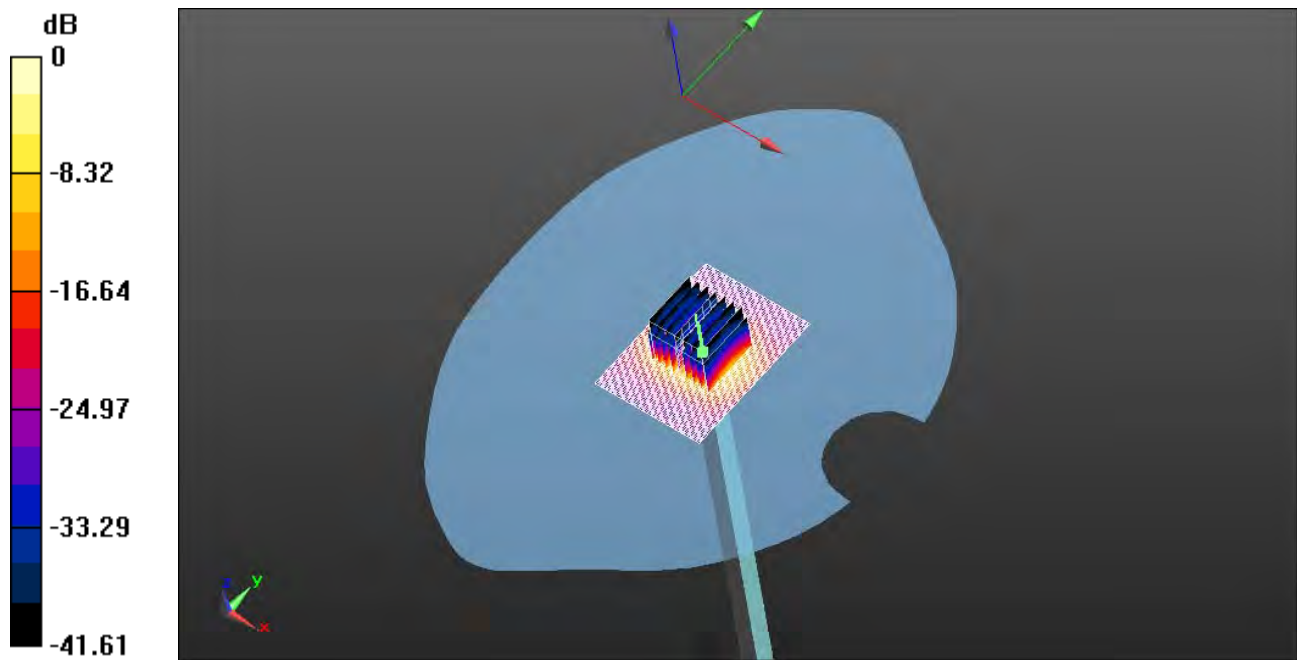
(9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 192.3 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 366 W/kg

SAR(1 g) = 84.1 W/kg ; SAR(10 g) = 24.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 179 W/kg



0 dB = 179 W/kg = 22.53 dBW/kg